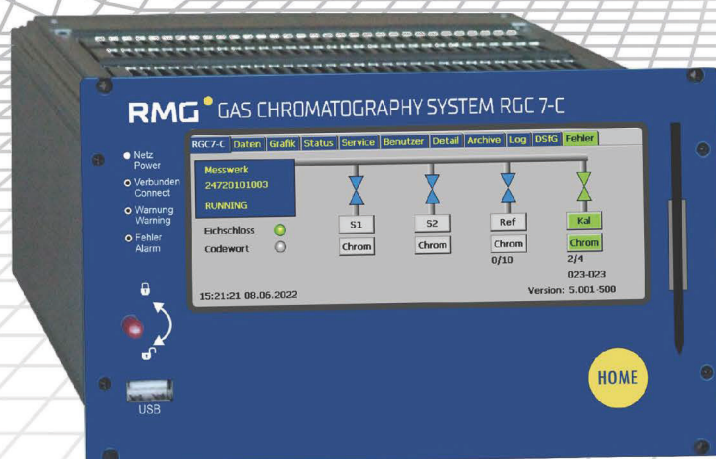


RMG MODBUS INTERFACE

RGC 7-C

Parameter list



Contact

Manufacturer information

Address: RMG Messtechnik GmbH
 Otto-Hahn-Straße 5
 D-35510 Butzbach

Main office: +49 6033 897-0
 Phone Service: +49 6033 897-897
 Phone spare parts: +49 6033 897-897
 Fax: +49 6033 897-130
 Mail: service@rmg.com
 Website: www.rmg.com

Document information

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Version	Version date	Changes
V00	April 2025	Initial creation

Protective note according to DIN ISO 16016

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Table of contents

1	General	4
2	Legend for the Modbus parameter list.....	5
3	Modbus parameter list	7

1 General

The RGC 7-C controller supports communication using the Modbus protocol via the various standard and optional device ports.

The following protocols can be set at the ports:

Serial ports

No.	Des. short	Design	Function/protocols
X11	COM 1	RS 232 / RS 485*	Modbus RTU / Modbus ASCII
X12	COM 2	RS 232	To connect an add-on module WAGO-IO
X13	COM 3	RS 232 / RS 485*	DSfG / Modbus RTU / Modbus ASCII / RMG bus
X14	COM 4	RS 232 / RS 485*	DSfG / RMG bus
X15	COM 5	RS 232	Modbus RTU / Modbus ASCII
X37	COM 6	RS 232 / RS 485*	Modbus RTU / Modbus ASCII / RMG bus
X38	COM 7	RS 232 / RS 485*	Modbus RTU / Modbus ASCII

Table 1: Serial ports

* Configurable on the device with jumpers – information printed in bold represents the factory settings.

Network ports

No.	Des. short	Designation long	Function
X19	Eth 2	Ethernet port 2	To connect a PC or local network, RJ45 socket for LAN/Ethernet (DHCP client or fixed IP address) Protocols: - Ethernet TCP/IP - Modbus TCP - http - DSfG-B - NTP

Table 2: Ethernet port

- To parameterise the individual interfaces, please navigate to the Detail menu, level 16 Interfaces on the touchscreen of the RGC 7-C.
- Select the required sub-level, e.g. 01 COM1 and define the settings for the following communication parameters in the available selection menus:
 - Baud rate
 - Data bits
 - Protocol
 - Modbus address
 - Modbus text mode
 - Modbus byte sequence
 - Modbus register offset
 - Modbus user list
 - User list mode
- To parameterise the Ethernet port, please navigate to the Details menu, level 17 Network and select the required sub-level, e.g. 01 LAN addresses.

2 Legend for the Modbus parameter list

The terms and abbreviations used in the Modbus parameter list are explained more detailed below:

"Coordinate" column	
Entry	Explanation
1.0.0	Position in the tree structure of the matrix

Table 3: Legend for "Coordinate" column

"Text english" column	
Entry	Explanation
Text	Descriptive name of the coordinate

Table 4: Legend for "Text english" column

"Macro name" column	
Entry	Explanation
Text	Macro name of the coordinate

Table 5: Legend for "Macro name" column

"Protection" column	
Entry	Explanation
E	This data is protected by the user lock. It can only be changed when the user lock is open.
C	This data is protected by the user's code word. It can only be changed after the user code has been entered correctly.
N	This data is not protected. It can be changed by the user as desired.
P	This data is calculated/changed by the RGC 7-C. If the RGC 7-C is restarted, it remains unchanged. This data is not intended to be accessible for the user.
A	This data is calculated/changed by the RGC 7-C. If the RGC 7-C is restarted, the data is set to zero (reset) and then recalculated by the RGC 7-C. This data is not intended to be accessible for the user.

Table 6: Legend for „Protection“ column

"Description" column	
Entry	Explanation
Text	Explanatory text on the coordinate and its function

Table 7: Legend for "Description" column

"Modbus register" column	
Entry	Explanation
e.g. 1000	Modbus register address associated with the coordinate

Table 8: Legend for "Modbus register" column

"Type" column	
Entry	Explanation
Head	Header, displayed text cannot be read out
Menu	Selection can be read out as number, interpretation can be read out via web browser
Int	Integer
Text	Text with max. 20 characters
Float	Floating-point number
Time	64-bit integer, number of seconds since 01/01/1970

Table 9: Legend for „Type“ column

"Access" column	
Entry	Explanation
R	Read only (Read)
W	Writing only (Write) Note: A "zero" value is returned for read access (e.g. 0 for numbers, empty for character strings)
RW	Reading and writing (ReadWrite)

Table 10: Legend for "Access" column

"Unit" column	
Entry	Explanation
Hex	Number that is read out, in hexadecimal format
Date	Year, month, day, hour, minute, second
URhn	Unit for standard density
UHs	Unit for the calorific value
Si-Einheiten	mol&%, s, °K, °C, °F, bar, psi

Table 11: Legend for "Unit" column

3 Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
1.0.0	RGC 7-C mode	HEAD_1	A	-	1000	Titel	R	
1.0.1	Mode of operation	GCMMode	B	Setting for the operating mode of the RGC7. Changes do not take effect until the current analysis has been completed. - AUTORUN: Normal analysis operation, interrupted by automatic calibration - STOP: Analyses are stopped BASIC-CAL: Only on startup or after service activity (requires open calibration switch). Calculates comparison variables for regular calibration. - NORM-CAL.: Non-standard manual calibration. - REF-GAS: Analysis of the gas connected to the referencegas input, e.g. test gas.	1001	Menü	W	
1.0.2	current oper. mode	GCWorkingStatus	A	Current operating mode of the RGC7. Also: READY: Device is ready WAIT: Device is currently executing computing processes, e.g. initialization.	1002	Menü	R	
1.0.3	First cal. Err. free	FirstCalibrationEF	A	Indicates whether the first calibration after startup was successful (YES/NO).	1003	Menü	R	
1.0.4	Erroneous cal. cycles	CalCycleErrCounter	A	Number of failed calibrations.	1004	Integer	R	
1.0.5	First sample gas	FirstAnalysis	A	Indicates whether the first measuring gas analysis after startup is completed (YES/NO, irrespective of fault status).	1005	Menü	R	
1.0.6	First ref. gas	FirstReference	A	Indicates whether the first reference gas analysis after startup is completed (YES/NO, irrespective of fault status).	1006	Menü	R	
1.0.7	Started sequences	SequStartCnt	A	Number of started analysis runs.	1954	Integer	R	
1.0.8	Ended analysis	AnaEndCnt	A	Number of finished analysis runs.	1955	Integer	R	
1.1.0	Stream 1-2 gas	HEAD_1_1	A	-	1007	Titel	R	
1.1.1	Multistream mode	MSMode	E	Multistream operating mode OFF or ON. For Multistream ON, the parameters for stream 1 through stream 4 (Skip and Measurements) must be entered. For Multistream, the list is processed from the top down. Stream-1 Skip, Stream-1 Measurements, Stream-2 Skip, Stream-2 Measurements etc.	1008	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
1.1.2	S1 Skip	MSList_0	E	Number of sample measurements for stream 1. Skip refers to the number of measurements that do not have to be taken into account after a stream change (can also be zero).	1009	Integer	W	
1.1.3	S1 Measurements	MSList_1	E	Number of measurements for stream 1. Measurements refers to the number of actual measurements (can also be zero).	1010	Integer	W	
1.1.4	S2 Skip	MSList_2	E	Number of sample measurements for stream 2. Skip refers to the number of measurements that do not have to be taken into account after a stream change (can also be zero).	1011	Integer	W	
1.1.5	S2 Measurements	MSList_3	E	Number of measurements for stream 2. Measurements refers to the number of actual measurements (can also be zero).	1012	Integer	W	
1.1.6	No of ana runs	MSSstreamCount	A	Counts the number of measurements for the currently active stream. (Skip or Measurements) The next stream change is triggered with this number.	1017	Integer	R	
1.1.7	Multistream info	MSInfo	A	Information as to which stream is currently being measured.	5820	Text	R	
1.1.8	Skips befor 1. run	SkipMaxCounter	E	Number of skip runs befor measuring stream 1 and stream 2. Changeable outside of AUTORUN-mode.	2291	Integer	W	
1.1.9	no of skip runs	SkipCounter	A	Number of completed skip runs	2292	Integer	R	
1.2.0	Ref-gas	HEAD_1_2	A	-	1018	Titel	R	
1.2.1	Max no of ref runs	RefMaxCount	E	Maximum number of reference gas analyses. The measuring gas analysis is then continued. Changeable outside the REF-Gas mode.	1019	Integer	W	
1.2.2	No of ref runs	RefCount	A	Number of reference gas analyses already performed.	1020	Integer	R	
1.3.0	Cal-gas	HEAD_1_3	A	-	1021	Titel	R	
1.3.1	Average from	CalStartCount	E	First calibration gas analysis used for calibration. The previous analyses are discarded. Changeable outside the CAL-Gas mode.	1022	Integer	W	
1.3.2	No of calib. runs	CalMaxCount	E	Specified number of all calibration gas analyses per calibration. Changeable outside the CAL-Gas mode.	1023	Integer	W	
1.3.3	No of cal runs	CalCount	A	Number of calibration gas analyses already performed.	1024	Integer	R	
1.3.4	Used Cal. runs	CalAverageCount	A	Number of calibration gas analyses already performed used for calibration.	1025	Integer	R	
1.4.0	Status	HEAD_1_4	A	-	1026	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
1.4.1	Calculated channel	CalculatedJob	A	Binary display of the channel whose results are currently displayed.	1027	Integer	R	hex
1.4.2	Next channel	NextCalcJob	A	Binary display of the channel whose results are next displayed.	2053	Integer	R	hex
1.4.3	active valve	SelectedValve	A	Currently activated gas (Stream-1/Stream-2/REF-GAS/Cal.-Gas/OFF).	1028	Menü	R	
1.4.4	Curr. sampling chan.	SamplingChannel	A	Display of the channel currently being measured (Stream-1/Stream-2/REF-GAS/Cal.-Gas/None).	1029	Menü	R	
1.4.5	No. of analysis	AnalysisCounter	P	Number of measuring gas, reference gas and calibration gas analyses. (0 - 99999999) This counter is incremented at the end of the mathematics (evaluation of the analysis). All results for this analysis are available after the counter has been increased. The stream number of the current analysis provides further information.	3000	Long	R	
1.4.6	Analysis finished	AnalysisFinished	B	This flag shows that an analysis is finished. This flag can be reset by the user or by the RGC7-C after a specified time (FlagResetTime).	1922	Menü	W	
1.4.7	Resettime analysis-flag	FlagResetTime	B	After the time specified here (in seconds), the analysis flag (AnalysisFinished) is reset. If this time is set to zero, the flag will not be reset automatically. In this case it must be reset by the user.	1923	Integer	W	
1.4.8	Stream 1 pressure	MeasGasError_0	A	Measuring gas pressure for stream 1. This value is only updated when the valve for stream 1 is connected.	1619	Menü	R	
1.4.9	Stream 2 pressure	MeasGasError_1	A	Measuring gas pressure for stream 2. This value is only updated when the valve for stream 2 is connected.	1620	Menü	R	
1.4.10	Ref.-gas pressure	MeasGasError_2	A	Reference gas pressure: This value is only updated when the valve for reference gas is connected.	1621	Menü	R	
1.4.11	Cal.-gas pressure	MeasGasError_3	A	Calibration gas pressure: This value is only updated when the valve for calibration gas is connected.	1622	Menü	R	
1.4.12	Stream 1 No. of analys.	AnalysisCounter-Stream_0	P	Number of STREAM 1 gas analyses. (0 - 99999999) This counter is incremented at the end of the mathematics (evaluation of the analysis). All results for this analysis are available after the counter has been increased.	3380	Long	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
1.4.13	Stream 2 No. of analys.	AnalysisCounter-Stream_1	P	Number of STREAM 2 gas analyses. (0 - 99999999)This counter is incremented at the end of the mathematics (evaluation of the analysis). All results for this analysis are available after the counter has been increased.	3382	Long	R	
1.4.14	Ref.-gas No. of analys.	AnalysisCounter-Stream_2	P	Number of REF gas analyses. (0 - 99999999) This counter is incremented at the end of the mathematics (evaluation of the analysis). All results for this analysis are available after the counter has been increased.	3384	Long	R	
1.4.15	Cal.-gas No. of analys.	AnalysisCounter-Stream_3	P	Number of CAL gas analyses. (0 - 99999999)This counter is incremented at the end of the mathematics (evaluation of the analysis). All results for this analysis are available after the counter has been increased.	3386	Long	R	
1.4.16	Analysis Stream 1 finished	AnalysisFinished-Stream_0	N	This flag shows that an analysis is finished.This flag can be resetted by the user or by the RGC7-C after a specified time (FlagReset-Time).	2280	Menü	W	
1.4.17	Analysis Stream 2 finished	AnalysisFinished-Stream_1	N	This flag shows that an analysis is finished. This flag can be resetted by the user or by the RGC7-C after a specified time (FlagReset-Time).	2281	Menü	W	
1.4.18	Analysis Ref.-gas finished	AnalysisFinished-Stream_2	N	This flag shows that an analysis is finished. This flag can be resetted by the user or by the RGC7-C after a specified time (FlagReset-Time).	2282	Menü	W	
1.4.19	Analysis Cal.-gas finished	AnalysisFinished-Stream_3	N	This flag shows that an analysis is finished. This flag can be resetted by the user or by the RGC7-C after a specified time (FlagReset-Time).	2283	Menü	W	
1.5.0	Times	HEAD_1_5	A	-	1618	Titel	R	
1.5.1	Analysis started	LastStartTime	A	Timestamp: Analysis was started.	3202	Unix-time	R	
1.5.2	Analysis finished	LastFinishTime	A	Timestamp: Analysis was ended.	3204	Unix-time	R	
1.5.3	Analysis finished: hours	LastFinish-Time_hours	A	Timestamp (hour): Analysis was ended.	1916	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
1.5.4	Analysis finished: minutes	LastFinish-Time_minutes	A	Timestamp (minute): Analysis was ended.	1917	Integer	R	
1.5.5	Analysis finished: seconds	LastFinish-Time_seconds	A	Timestamp (second): Analysis was ended.	1918	Integer	R	
1.5.6	Analysis finished: day	LastFinishTime_day	A	Timestamp (day): Analysis was ended.	1919	Integer	R	
1.5.7	Analysis finished: month	LastFinish-Time_month	A	Timestamp (month): Analysis was ended.	1920	Integer	R	
1.5.8	Analysis finished: year	LastFinishTime_-year	A	Timestamp (year): Analysis was ended.	1921	Integer	R	
1.5.9	injection time utc	LastInjectionTime	A	Timestamp: Injection	3218	Unix-time	R	
1.5.10	inj. time year utc	LastInjection-Time_Year	A	Timestamp (year): Injection was ended.	2112	Integer	R	
1.5.11	inj. time month utc	LastInjection-Time_Month	A	Timestamp (month): Injection was ended.	2113	Integer	R	
1.5.12	inj. time day utc	LastInjection-Time_Day	A	Timestamp (day): Injection was ended.	2114	Integer	R	
1.5.13	inj. time hour utc	LastInjection-Time_Hour	A	Timestamp (hour): Injection was ended.	2115	Integer	R	
1.5.14	inj. time min utc	LastInjection-Time_Min	A	Timestamp (minute): Injection was ended.	2116	Integer	R	
1.5.15	inj. time sec utc	LastInjection-Time_Sec	A	Timestamp (second): Injection was ended.	2117	Integer	R	
2.0.0	Current values	HEAD_2	A	-	1030	Titel	R	
2.0.1	stream no	StreamNo_ALL	A	Channel (stream or gas) for which the current values are valid.	1031	Menü	R	
2.0.2	timestamp	Messzeit_ALL	A	Date and time of last measurement	3236	Unix-time	R	
2.0.3	timestamp: hours	Messzeit_ALL_hours	A	Timestamp (hour) of the finished analysis.	1968	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.0.4	timestamp: minutes	Messzeit_ALL_minutes	A	Timestamp (minute) of the finished analysis.	1969	Integer	R	
2.0.5	timestamp: seconds	Messzeit_ALL_seconds	A	Timestamp (second) of the finished analysis.	1970	Integer	R	
2.0.6	timestamp: day	Messzeit_ALL_day	A	Timestamp (day) of the finished analysis.	1971	Integer	R	
2.0.7	timestamp: month	Messzeit_ALL_month	A	Timestamp (month) of the finished analysis.	1972	Integer	R	
2.0.8	timestamp: year	Messzeit_ALL_year	A	Timestamp (year) of the finished analysis.	1973	Integer	R	
2.0.9	File name	ChromFile_ALL	A	Filename under which the chromatogram for the last measurement is saved (= date and time of this measurement).	5020	Text	R	YMDhms
2.0.10	Stream status	StreamStatus_ALL	A	Status of the last measurement for this channel - OK: Last measurement was successful - FAULT: A fault occurred during the last measurement - UNPROCESSED: This stream was not yet measured.	1032	Menü	R	
2.0.11	Hs	Ho_ALL	A	Superior calorific value from the last analysis performed	7000	Float	R	&UnitHs
2.0.12	Ws	Wo_ALL	A	Wobbe index from the last analysis performed	7002	Float	R	&UnitHs
2.0.13	rho	Rhon_ALL	A	Standard density from the last analysis performed	7004	Float	R	&UnitRhon
2.0.14	d	DV_ALL	A	Relative density (standard density divided by standard density of air) from the last analysis performed	7006	Float	R	
2.0.15	Hi	Hu_ALL	A	Inferior calorific value from the last analysis performed	7008	Float	R	&UnitHs
2.0.16	Wi	Wu_ALL	A	Lower Wobbe index (calculated from the inferior calorific value) from the last analysis performed	7010	Float	R	&UnitHs
2.0.17	Zn	Zn_ALL	A	Real gas factor (in standard condition) from the last analysis performed	7012	Float	R	
2.0.18	Mz	Mz_ALL	A	Methane number from the last analysis performed, calculated according to DIN EN 16726 2019	7014	Float	R	
2.0.19	Unnormalized sum	UnNormSum_ALL	A	Unnormalized sum of the components (before normalization to 100%) from the last analysis performed	7016	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.0.20	Column Component State 1	Component-State_ALL_0	A	Status of the first 16 measured/calculated components of the current stream each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2231	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.0.21	Column Component State 2	Component-State_ALL_1	A	Status of the second 16 measured/calculated components of the current stream each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2232	Integer	R	hex
2.1.0	Concentrations	HEAD_2_1	A	-	1033	Titel	R	
2.1.1	Nitrogen	Concentration_ALL_0	A	Molar content of nitrogen (after normalization) from the last analysis performed	8000	Float	R	mol%
2.1.2	Methane	Concentration_ALL_1	A	Molar content of methane (after normalization) from the last analysis performed	8002	Float	R	mol%
2.1.3	Carbon Dioxide	Concentration_ALL_2	A	Molar content of carbon dioxide (after normalization) from the last analysis performed	8004	Float	R	mol%
2.1.4	Ethane	Concentration_ALL_3	A	Molar content of ethane (after normalization) from the last analysis performed	8006	Float	R	mol%
2.1.5	Propane	Concentration_ALL_4	A	Molar content of propane (after normalization) from the last analysis performed	8008	Float	R	mol%
2.1.6	iso-Butane	Concentration_ALL_5	A	Molar content of i-butane (after normalization) from the last analysis performed	8010	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.1.7	n-Butane	Concentration_ALL_6	A	Molar content of n-butane (after normalization) from the last analysis performed	8012	Float	R	mol%
2.1.8	neo-Pentane	Concentration_ALL_7	A	Molar content of neopentane (after normalization) from the last analysis performed	8014	Float	R	mol%
2.1.9	iso-Pentane	Concentration_ALL_8	A	Molar content of i-pentane (after normalization) from the last analysis performed	8016	Float	R	mol%
2.1.10	n-Pentane	Concentration_ALL_9	A	Molar content of n-pentane (after normalization) from the last analysis performed	8018	Float	R	mol%
2.1.11	C6+	Concentration_ALL_10	A	Molar content of C6+ (after normalization) from the last analysis performed	8020	Float	R	mol%
2.1.12	n-Hexane	Concentration_ALL_11	A	Molar content of n-hexane (after normalization) from the last analysis performed	8022	Float	R	mol%
2.1.13	n-Heptane	Concentration_ALL_12	A	Molar content of n-heptane (after normalization) from the last analysis performed	8024	Float	R	mol%
2.1.14	n-Octane	Concentration_ALL_13	A	Molar content of n-octane (after normalization) from the last analysis performed	8026	Float	R	mol%
2.1.15	n-Nonane	Concentration_ALL_14	A	Molar content of n-nonane (after normalization) from the last analysis performed	8028	Float	R	mol%
2.1.16	Oxygen	Concentration_ALL_15	A	Molar content of oxygen (after normalization) from the last analysis performed	8030	Float	R	mol%
2.1.17	Helium	Concentration_ALL_16	A	Molar content of helium (after normalization) from the last analysis performed	8032	Float	R	mol%
2.1.18	Hydrogen	Concentration_ALL_17	A	Molar content of hydrogen (after normalization) from the last analysis performed	8034	Float	R	mol%
2.1.19	Argon	Concentration_ALL_18	A	Molar content of argon (after normalization) from the last analysis performed	8036	Float	R	mol%
2.1.20	Methanol	Concentration_ALL_19	A	Molar content of methanol (after normalization) from the last analysis performed	8038	Float	R	mol%
2.1.21	Hydrogensulfid	Concentration_ALL_20	A	Molar content of hydrogensulfid (after normalization) from the last analysis performed	21630	Float	R	mol%
2.2.0	Areas	HEAD_2_2	A	-	1034	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.2.1	Nitrogen	Area_ALL_0	A	Peak area for nitrogen in the chromatogram	8050	Float	R	
2.2.2	Methane	Area_ALL_1	A	Peak area for methane in the chromatogram	8052	Float	R	
2.2.3	Carbon Dioxide	Area_ALL_2	A	Peak area for carbon dioxide in the chromatogram	8054	Float	R	
2.2.4	Ethane	Area_ALL_3	A	Peak area for ethane in the chromatogram	8056	Float	R	
2.2.5	Propane	Area_ALL_4	A	Peak area for propane in the chromatogram	8058	Float	R	
2.2.6	iso-Butane	Area_ALL_5	A	Peak area for i-butane in the chromatogram	8060	Float	R	
2.2.7	n-Butane	Area_ALL_6	A	Peak area for n-butane in the chromatogram	8062	Float	R	
2.2.8	neo-Pentane	Area_ALL_7	A	Peak area for neopentane in the chromatogram	8064	Float	R	
2.2.9	iso-Pentane	Area_ALL_8	A	Peak area for i-pentane in the chromatogram	8066	Float	R	
2.2.10	n-Pentane	Area_ALL_9	A	Peak area for n-pentane in the chromatogram	8068	Float	R	
2.2.11	C6+	Area_ALL_10	A	Peak area for C6+ in the chromatogram	8070	Float	R	
2.2.12	n-Hexane	Area_ALL_11	A	Peak area for n-hexane in the chromatogram	8072	Float	R	
2.2.13	n-Heptane	Area_ALL_12	A	Peak area for n-heptane in the chromatogram	8074	Float	R	
2.2.14	n-Octane	Area_ALL_13	A	Peak area for n-octane in the chromatogram	8076	Float	R	
2.2.15	n-Nonane	Area_ALL_14	A	Peak area for n-nonane in the chromatogram	8078	Float	R	
2.2.16	Oxygen	Area_ALL_15	A	Peak area for oxygen in the chromatogram	8080	Float	R	
2.2.17	Helium	Area_ALL_16	A	Peak area for helium in the chromatogram	8082	Float	R	
2.2.18	Hydrogen	Area_ALL_17	A	Peak area for hydrogen in the chromatogram	8084	Float	R	
2.2.19	Argon	Area_ALL_18	A	Peak area for argon in the chromatogram	8086	Float	R	
2.2.20	Methanol	Area_ALL_19	A	Peak area for methanol in the chromatogram	8088	Float	R	
2.2.21	Hydrogensulfid	Area_ALL_20	A	Peak area for hydrogensulfid in the chromatogram	21632	Float	R	
2.3.0	Times	HEAD_2_3	A	-	1035	Titel	R	
2.3.1	ST Nitrogen	StartTime_ALL_0	A	Peak start time for nitrogen (lower limit of integration)	8100	Float	R	s
2.3.2	RT Nitrogen	RT_ALL_0	A	Retention time (cycle time through the column) for nitrogen	8150	Float	R	s
2.3.3	ET Nitrogen	EndTime_ALL_0	A	Peak end time for nitrogen (upper limit of integration)	8200	Float	R	s
2.3.4	ST Methane	StartTime_ALL_1	A	Peak start time for methane (lower limit of integration)	8102	Float	R	s
2.3.5	RT Methane	RT_ALL_1	A	Retention time (cycle time through the column) for methane	8152	Float	R	s

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
2.3.6	ET Methane	EndTime_ALL_1	A	Peak end time for methane (upper limit of integration)	8202	Float	R	s
2.3.7	ST Carbon Dioxide	StartTime_ALL_2	A	Peak start time for carbon dioxide (lower limit of integration)	8104	Float	R	s
2.3.8	RT Carbon Dioxide	RT_ALL_2	A	Retention time (cycle time through the column) for carbon dioxide	8154	Float	R	s
2.3.9	ET Carbon Dioxide	EndTime_ALL_2	A	Peak end time for carbon dioxide (upper limit of integration)	8204	Float	R	s
2.3.10	ST Ethane	StartTime_ALL_3	A	Peak start time for ethane (lower limit of integration)	8106	Float	R	s
2.3.11	RT Ethane	RT_ALL_3	A	Retention time (cycle time through the column) for ethane	8156	Float	R	s
2.3.12	ET Ethane	EndTime_ALL_3	A	Peak end time for ethane (upper limit of integration)	8206	Float	R	s
2.3.13	ST Propane	StartTime_ALL_4	A	Peak start time for propane (lower limit of integration)	8108	Float	R	s
2.3.14	RT Propane	RT_ALL_4	A	Retention time (cycle time through the column) for propane	8158	Float	R	s
2.3.15	ET Propane	EndTime_ALL_4	A	Peak end time for propane (upper limit of integration)	8208	Float	R	s
2.3.16	ST iso-Butane	StartTime_ALL_5	A	Peak start time for i-butane (lower limit of integration)	8110	Float	R	s
2.3.17	RT iso-Butane	RT_ALL_5	A	Retention time (cycle time through the column) for i-butane	8160	Float	R	s
2.3.18	ET iso-Butane	EndTime_ALL_5	A	Peak end time for i-butane (upper limit of integration)	8210	Float	R	s
2.3.19	ST n-Butane	StartTime_ALL_6	A	Peak start time for n-butane (lower limit of integration)	8112	Float	R	s
2.3.20	RT n-Butane	RT_ALL_6	A	Retention time (cycle time through the column) for n-butane	8162	Float	R	s
2.3.21	ET n-Butane	EndTime_ALL_6	A	Peak end time for n-butane (upper limit of integration)	8212	Float	R	s
2.3.22	ST neo-Pentane	StartTime_ALL_7	A	Peak start time for neopentane (lower limit of integration)	8114	Float	R	s
2.3.23	RT neo-Pentane	RT_ALL_7	A	Retention time (cycle time through the column) for neopentane	8164	Float	R	s
2.3.24	ET neo-Pentane	EndTime_ALL_7	A	Peak end time for neopentane (upper limit of integration)	8214	Float	R	s
2.3.25	ST iso-Pentane	StartTime_ALL_8	A	Peak start time for i-pentane (lower limit of integration)	8116	Float	R	s
2.3.26	RT iso-Pentane	RT_ALL_8	A	Retention time (cycle time through the column) for i-pentane	8166	Float	R	s
2.3.27	ET iso-Pentane	EndTime_ALL_8	A	Peak end time for i-pentane (upper limit of integration)	8216	Float	R	s
2.3.28	ST n-Pentane	StartTime_ALL_9	A	Peak start time for n-pentane (lower limit of integration)	8118	Float	R	s
2.3.29	RT n-Pentane	RT_ALL_9	A	Retention time (cycle time through the column) for n-pentane	8168	Float	R	s
2.3.30	ET n-Pentane	EndTime_ALL_9	A	Peak end time for n-pentane (upper limit of integration)	8218	Float	R	s
2.3.31	ST C6+	StartTime_ALL_10	A	Peak start time for C6+ (lower limit of integration)	8120	Float	R	s
2.3.32	RT C6+	RT_ALL_10	A	Retention time (cycle time through the column) for C6+	8170	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.3.33	ET C6+	EndTime_ALL_10	A	Peak end time for C6+ (upper limit of integration)	8220	Float	R	s
2.3.34	ST n-Hexane	StartTime_ALL_11	A	Peak start time for n-hexane (lower limit of integration)	8122	Float	R	s
2.3.35	RT n-Hexane	RT_ALL_11	A	Retention time (cycle time through the column) for n-hexane	8172	Float	R	s
2.3.36	ET n-Hexane	EndTime_ALL_11	A	Peak end time for n-hexane (upper limit of integration)	8222	Float	R	s
2.3.37	ST n-Heptane	StartTime_ALL_12	A	Peak start time for n-heptane (lower limit of integration)	8124	Float	R	s
2.3.38	RT n-Heptane	RT_ALL_12	A	Retention time (cycle time through the column) for n-heptane	8174	Float	R	s
2.3.39	ET n-Heptane	EndTime_ALL_12	A	Peak end time for n-heptane (upper limit of integration)	8224	Float	R	s
2.3.40	ST n-Octane	StartTime_ALL_13	A	Peak start time for n-octane (lower limit of integration)	8126	Float	R	s
2.3.41	RT n-Octane	RT_ALL_13	A	Retention time (cycle time through the column) for n-octane	8176	Float	R	s
2.3.42	ET n-Octane	EndTime_ALL_13	A	Peak end time for n-octane (upper limit of integration)	8226	Float	R	s
2.3.43	ST n-Nonane	StartTime_ALL_14	A	Peak start time for n-nonane (lower limit of integration)	8128	Float	R	s
2.3.44	RT n-Nonane	RT_ALL_14	A	Retention time (cycle time through the column) for n-nonane	8178	Float	R	s
2.3.45	ET n-Nonane	EndTime_ALL_14	A	Peak end time for n-nonane (upper limit of integration)	8228	Float	R	s
2.3.46	ST Oxygen	StartTime_ALL_15	A	Peak start time for oxygen (lower limit of integration)	8130	Float	R	s
2.3.47	RT Oxygen	RT_ALL_15	A	Retention time (cycle time through the column) for oxygen	8180	Float	R	s
2.3.48	ET Oxygen	EndTime_ALL_15	A	Peak end time for oxygen (upper limit of integration)	8230	Float	R	s
2.3.49	ST Helium	StartTime_ALL_16	A	Peak start time for helium (lower limit of integration)	8132	Float	R	s
2.3.50	RT Helium	RT_ALL_16	A	Retention time (cycle time through the column) for helium	8182	Float	R	s
2.3.51	ET Helium	EndTime_ALL_16	A	Peak end time for helium (upper limit of integration)	8232	Float	R	s
2.3.52	ST Hydrogen	StartTime_ALL_17	A	Peak start time for hydrogen (lower limit of integration)	8134	Float	R	s
2.3.53	RT Hydrogen	RT_ALL_17	A	Retention time (cycle time through the column) for hydrogen	8184	Float	R	s
2.3.54	ET Hydrogen	EndTime_ALL_17	A	Peak end time for hydrogen (upper limit of integration)	8234	Float	R	s
2.3.55	ST Argon	StartTime_ALL_18	A	Peak start time for argon (lower limit of integration)	8136	Float	R	s
2.3.56	RT Argon	RT_ALL_18	A	Retention time (cycle time through the column) for argon	8186	Float	R	s
2.3.57	ET Argon	EndTime_ALL_18	A	Peak end time for argon (upper limit of integration)	8236	Float	R	s
2.3.58	ST Methanol	StartTime_ALL_19	A	Peak start time for methanol (lower limit of integration)	8138	Float	R	s
2.3.59	RT Methanol	RT_ALL_19	A	Retention time (cycle time through the column) for methanol	8188	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
2.3.60	ET Methanol	EndTime_ALL_19	A	Peak end time for methanol (upper limit of integration)	8238	Float	R	s
2.3.61	ST Hydrogensulfid	StartTime_ALL_20	A	Peak start time for hydrogensulfid (lower limit of integration)	21634	Float	R	s
2.3.62	RT Hydrogensulfid	RT_ALL_20	A	Retention time (cycle time through the column) for hydrogensulfid	21636	Float	R	s
2.3.63	ET Hydrogensulfid	EndTime_ALL_20	A	Peak end time for hydrogensulfid (upper limit of integration)	21638	Float	R	s
3.0.0	Stream-1 values	HEAD_3	A	-	1036	Titel	R	
3.0.1	stream no	StreamNo_S1	A	Channel (stream or gas) for which the following values are valid (Stream-1 /OFF) For Modbus calls.	1037	Menü	R	
3.0.2	timestamp	Messzeit_S1	A	Date and time of last measurement for stream 1	3238	Unix-time	R	
3.0.3	timestamp: hours	Messzeit_S1_hours	A	Timestamp (hour) of the finished stream-1 analysis.	1974	Integer	R	
3.0.4	timestamp: minutes	Messzeit_S1_minutes	A	Timestamp (minute) of the finished stream-1 analysis.	1975	Integer	R	
3.0.5	timestamp: seconds	Messzeit_S1_seconds	A	Timestamp (second) of the finished stream-1 analysis.	1976	Integer	R	
3.0.6	timestamp: day	Messzeit_S1_day	A	Timestamp (day) of the finished stream-1 analysis.	1977	Integer	R	
3.0.7	timestamp: month	Messzeit_S1_month	A	Timestamp (month) of the finished stream-1 analysis.	1978	Integer	R	
3.0.8	timestamp: year	Messzeit_S1_year	A	Timestamp (year) of the finished stream-1 analysis.	1979	Integer	R	
3.0.9	File name	ChromFile_S1	A	Filename under which the chromatogram for the last measurement for stream 1 is saved (= date and time of this measurement).	5060	Text	R	YMDhms
3.0.10	Stream status	StreamStatus_S1	A	Status of the last measurement for stream 1 - OK: Last measurement was successful - FAULT: A fault occurred during the last measurement - UNPROCESSED: This stream was not yet measured.	1038	Menü	R	
3.0.11	Hs	Ho_S1	A	Superior calorific value from the last measuring gas analysis performed for stream 1	7020	Float	R	&UnitHs
3.0.12	Ws	Wo_S1	A	Wobbe index from the last measuring gas analysis performed for stream 1	7022	Float	R	&UnitHs
3.0.13	rho	Rhon_S1	A	Standard density from the last measuring gas analysis performed for stream 1	7024	Float	R	&UnitRhon

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.0.14	d	DV_S1	A	Relative density (standard density divided by standard density of air) from the last measuring gas analysis performed for stream 1	7026	Float	R	
3.0.15	Hi	Hu_S1	A	Inferior calorific value from the last measuring gas analysis performed for stream 1	7028	Float	R	&UnitHs
3.0.16	Wi	Wu_S1	A	Lower Wobbe index (calculated from the inferior calorific value) from the last measuring gas analysis performed for stream 1	7030	Float	R	&UnitHs
3.0.17	Zn	Zn_S1	A	Real gas factor (in standard condition) from the last measuring gas analysis performed for stream 1	7032	Float	R	
3.0.18	Mz	Mz_S1	A	Methane number from the last measuring gas analysis performed for stream 1, calculated according to DIN EN 16726 2019	7034	Float	R	
3.0.19	Unnormalized sum	UnNormSum_S1	A	Unnormalized sum of the components (before normalization to 100%) from the last measuring gas analysis performed for stream 1	7036	Float	R	
3.0.20	Column Component State 1	Component-State_S1_0	A	Status of the first 16 measured/calculated components of the 1. stream each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butane =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexane =BIT-15	2233	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.0.21	Column Component State 2	Component-State_S1_1	A	Status of the second 16 measured/calculated components of the 1. stream each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2234	Integer	R	hex
3.1.0	Concentrations	HEAD_3_1	A	-	1039	Titel	R	
3.1.1	Nitrogen	Concentration_S1_0	A	Molar content of nitrogen (after normalization) from the last measuring gas analysis performed for stream 1	8250	Float	R	mol%
3.1.2	Methane	Concentration_S1_1	A	Molar content of methane (after normalization) from the last measuring gas analysis performed for stream 1	8252	Float	R	mol%
3.1.3	Carbon Dioxide	Concentration_S1_2	A	Molar content of carbon dioxide (after normalization) from the last measuring gas analysis performed for stream 1	8254	Float	R	mol%
3.1.4	Ethane	Concentration_S1_3	A	Molar content of ethane (after normalization) from the last measuring gas analysis performed for stream 1	8256	Float	R	mol%
3.1.5	Propane	Concentration_S1_4	A	Molar content of propane (after normalization) from the last measuring gas analysis performed for stream 1	8258	Float	R	mol%
3.1.6	iso-Butane	Concentration_S1_5	A	Molar content of i-butane (after normalization) from the last measuring gas analysis performed for stream 1	8260	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.1.7	n-Butane	Concentration_S1_6	A	Molar content of n-butane (after normalization) from the last measuring gas analysis performed for stream 1	8262	Float	R	mol%
3.1.8	neo-Pentane	Concentration_S1_7	A	Molar content of neopentane (after normalization) from the last measuring gas analysis performed for stream 1	8264	Float	R	mol%
3.1.9	iso-Pentane	Concentration_S1_8	A	Molar content of i-pentane (after normalization) from the last measuring gas analysis performed for stream 1	8266	Float	R	mol%
3.1.10	n-Pentane	Concentration_S1_9	A	Molar content of n-pentane (after normalization) from the last measuring gas analysis performed for stream 1	8268	Float	R	mol%
3.1.11	C6+	Concentration_S1_10	A	Molar content of C6+ (after normalization) from the last measuring gas analysis performed for stream 1	8270	Float	R	mol%
3.1.12	n-Hexane	Concentration_S1_11	A	Molar content of n-hexane (after normalization) from the last measuring gas analysis performed for stream 1	8272	Float	R	mol%
3.1.13	n-Heptane	Concentration_S1_12	A	Molar content of n-heptane (after normalization) from the last measuring gas analysis performed for stream 1	8274	Float	R	mol%
3.1.14	n-Octane	Concentration_S1_13	A	Molar content of n-octane (after normalization) from the last measuring gas analysis performed for stream 1	8276	Float	R	mol%
3.1.15	n-Nonane	Concentration_S1_14	A	Molar content of n-nonane (after normalization) from the last measuring gas analysis performed for stream 1	8278	Float	R	mol%
3.1.16	Oxygen	Concentration_S1_15	A	Molar content of oxygen (after normalization) from the last measuring gas analysis performed for stream 1	8280	Float	R	mol%
3.1.17	Helium	Concentration_S1_16	A	Molar content of helium (after normalization) from the last measuring gas analysis performed for stream 1	8282	Float	R	mol%
3.1.18	Hydrogen	Concentration_S1_17	A	Molar content of hydrogen (after normalization) from the last measuring gas analysis performed for stream 1	8284	Float	R	mol%
3.1.19	Argon	Concentration_S1_18	A	Molar content of argon (after normalization) from the last measuring gas analysis performed for stream 1	8286	Float	R	mol%
3.1.20	Methanol	Concentration_S1_19	A	Molar content of methanol (after normalization) from the last measuring gas analysis performed for stream 1	8288	Float	R	mol%
3.1.21	Hydrogensulfid	Concentration_S1_20	A	Molar content of hydrogensulfid (after normalization) from the last measuring gas analysis performed for stream 1	21640	Float	R	mol%
3.2.0	Areas	HEAD_3_2	A	-	1040	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.2.1	Nitrogen	Area_S1_0	A	Peak area for nitrogen in the chromatogram from the last analysis for stream 1	8300	Float	R	
3.2.2	Methane	Area_S1_1	A	Peak area for methane in the chromatogram from the last analysis for stream 1	8302	Float	R	
3.2.3	Carbon Dioxide	Area_S1_2	A	Peak area for carbon dioxide in the chromatogram from the last analysis for stream 1	8304	Float	R	
3.2.4	Ethane	Area_S1_3	A	Peak area for ethane in the chromatogram from the last analysis for stream 1	8306	Float	R	
3.2.5	Propane	Area_S1_4	A	Peak area for propane in the chromatogram from the last analysis for stream 1	8308	Float	R	
3.2.6	iso-Butane	Area_S1_5	A	Peak area for i-butane in the chromatogram from the last analysis for stream 1	8310	Float	R	
3.2.7	n-Butane	Area_S1_6	A	Peak area for n-butane in the chromatogram from the last analysis for stream 1	8312	Float	R	
3.2.8	neo-Pentane	Area_S1_7	A	Peak area for neopentane in the chromatogram from the last analysis for stream 1	8314	Float	R	
3.2.9	iso-Pentane	Area_S1_8	A	Peak area for i-pentane in the chromatogram from the last analysis for stream 1	8316	Float	R	
3.2.10	n-Pentane	Area_S1_9	A	Peak area for n-pentane in the chromatogram from the last analysis for stream 1	8318	Float	R	
3.2.11	C6+	Area_S1_10	A	Peak area for C6+ in the chromatogram from the last analysis for stream 1	8320	Float	R	
3.2.12	n-Hexane	Area_S1_11	A	Peak area for n-hexane in the chromatogram from the last analysis for stream 1	8322	Float	R	
3.2.13	n-Heptane	Area_S1_12	A	Peak area for n-heptane in the chromatogram from the last analysis for stream 1	8324	Float	R	
3.2.14	n-Octane	Area_S1_13	A	Peak area for n-octane in the chromatogram from the last analysis for stream 1	8326	Float	R	
3.2.15	n-Nonane	Area_S1_14	A	Peak area for n-nonane in the chromatogram from the last analysis for stream 1	8328	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.2.16	Oxygen	Area_S1_15	A	Peak area for oxygen in the chromatogram from the last analysis for stream 1	8330	Float	R	
3.2.17	Helium	Area_S1_16	A	Peak area for helium in the chromatogram from the last analysis for stream 1	8332	Float	R	
3.2.18	Hydrogen	Area_S1_17	A	Peak area for hydrogen in the chromatogram from the last analysis for stream 1	8334	Float	R	
3.2.19	Argon	Area_S1_18	A	Peak area for argon in the chromatogram from the last analysis for stream 1	8336	Float	R	
3.2.20	Methanol	Area_S1_19	A	Peak area for methanol in the chromatogram from the last analysis for stream 1	8338	Float	R	
3.2.21	Hydrogensulfid	Area_S1_20	A	Peak area for hydrogensulfid in the chromatogram from the last analysis for stream 1	21642	Float	R	
3.3.0	Times	HEAD_3_3	A	-	1041	Titel	R	
3.3.1	ST Nitrogen	StartTime_S1_0	A	Peak start time for nitrogen (lower limit of integration) from the last analysis for stream 1	8350	Float	R	s
3.3.2	RT Nitrogen	RT_S1_0	A	Retention time (cycle time through the column) for nitrogen from the last analysis for stream 1	8400	Float	R	s
3.3.3	ET Nitrogen	EndTime_S1_0	A	Peak end time for nitrogen (upper limit of integration) from the last analysis for stream 1	8450	Float	R	s
3.3.4	ST Methane	StartTime_S1_1	A	Peak start time for methane (lower limit of integration) from the last analysis for stream 1	8352	Float	R	s
3.3.5	RT Methane	RT_S1_1	A	Retention time (cycle time through the column) for methane from the last analysis for stream 1	8402	Float	R	s
3.3.6	ET Methane	EndTime_S1_1	A	Peak end time for methane (upper limit of integration) from the last analysis for stream 1	8452	Float	R	s
3.3.7	ST Carbon Dioxide	StartTime_S1_2	A	Peak start time for carbon dioxide (lower limit of integration) from the last analysis for stream 1	8354	Float	R	s
3.3.8	RT Carbon Dioxide	RT_S1_2	A	Retention time (cycle time through the column) for carbon dioxide from the last analysis for stream 1	8404	Float	R	s
3.3.9	ET Carbon Dioxide	EndTime_S1_2	A	Peak end time for carbon dioxide (upper limit of integration) from the last analysis for stream 1	8454	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.3.10	ST Ethane	StartTime_S1_3	A	Peak start time for ethane (lower limit of integration) from the last analysis for stream 1	8356	Float	R	s
3.3.11	RT Ethane	RT_S1_3	A	Retention time (cycle time through the column) for ethane from the last analysis for stream 1	8406	Float	R	s
3.3.12	ET Ethane	EndTime_S1_3	A	Peak end time for ethane (upper limit of integration) from the last analysis for stream 1	8456	Float	R	s
3.3.13	ST Propane	StartTime_S1_4	A	Peak start time for propane (lower limit of integration) from the last analysis for stream 1	8358	Float	R	s
3.3.14	RT Propane	RT_S1_4	A	Retention time (cycle time through the column) for propane from the last analysis for stream 1	8408	Float	R	s
3.3.15	ET Propane	EndTime_S1_4	A	Peak end time for propane (upper limit of integration) from the last analysis for stream 1	8458	Float	R	s
3.3.16	ST iso-Butane	StartTime_S1_5	A	Peak start time for i-butane (lower limit of integration) from the last analysis for stream 1	8360	Float	R	s
3.3.17	RT iso-Butane	RT_S1_5	A	Retention time (cycle time through the column) for i-butane from the last analysis for stream 1	8410	Float	R	s
3.3.18	ET iso-Butane	EndTime_S1_5	A	Peak end time for i-butane (upper limit of integration) from the last analysis for stream 1	8460	Float	R	s
3.3.19	ST n-Butane	StartTime_S1_6	A	Peak start time for n-butane (lower limit of integration) from the last analysis for stream 1	8362	Float	R	s
3.3.20	RT n-Butane	RT_S1_6	A	Retention time (cycle time through the column) for n-butane from the last analysis for stream 1	8412	Float	R	s
3.3.21	ET n-Butane	EndTime_S1_6	A	Peak end time for n-butane (upper limit of integration) from the last analysis for stream 1	8462	Float	R	s
3.3.22	ST neo-Pentane	StartTime_S1_7	A	Peak start time for neopentane (lower limit of integration) from the last analysis for stream 1	8364	Float	R	s
3.3.23	RT neo-Pentane	RT_S1_7	A	Retention time (cycle time through the column) for neopentane from the last analysis for stream 1	8414	Float	R	s
3.3.24	ET neo-Pentane	EndTime_S1_7	A	Peak end time for neopentane (upper limit of integration) from the last analysis for stream 1	8464	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.3.25	ST iso-Pentane	StartTime_S1_8	A	Peak start time for i-pentane (lower limit of integration) from the last analysis for stream 1	8366	Float	R	s
3.3.26	RT iso-Pentane	RT_S1_8	A	Retention time (cycle time through the column) for i-pentane from the last analysis for stream 1	8416	Float	R	s
3.3.27	ET iso-Pentane	EndTime_S1_8	A	Peak end time for i-pentane (upper limit of integration) from the last analysis for stream 1	8466	Float	R	s
3.3.28	ST n-Pentane	StartTime_S1_9	A	Peak start time for n-pentane (lower limit of integration) from the last analysis for stream 1	8368	Float	R	s
3.3.29	RT n-Pentane	RT_S1_9	A	Retention time (cycle time through the column) for n-pentane from the last analysis for stream 1	8418	Float	R	s
3.3.30	ET n-Pentane	EndTime_S1_9	A	Peak end time for n-pentane (upper limit of integration) from the last analysis for stream 1	8468	Float	R	s
3.3.31	ST C6+	StartTime_S1_10	A	Peak start time for C6+ (lower limit of integration) from the last analysis for stream 1	8370	Float	R	s
3.3.32	RT C6+	RT_S1_10	A	Retention time (cycle time through the column) for C6+ from the last analysis for stream 1	8420	Float	R	s
3.3.33	ET C6+	EndTime_S1_10	A	Peak end time for C6+ (upper limit of integration) from the last analysis for stream 1	8470	Float	R	s
3.3.34	ST n-Hexane	StartTime_S1_11	A	Peak start time for n-hexane (lower limit of integration) from the last analysis for stream 1	8372	Float	R	s
3.3.35	RT n-Hexane	RT_S1_11	A	Retention time (cycle time through the column) for n-hexane from the last analysis for stream 1	8422	Float	R	s
3.3.36	ET n-Hexane	EndTime_S1_11	A	Peak end time for n-hexane (upper limit of integration) from the last analysis for stream 1	8472	Float	R	s
3.3.37	ST n-Heptane	StartTime_S1_12	A	Peak start time for n-heptane (lower limit of integration) from the last analysis for stream 1	8374	Float	R	s
3.3.38	RT n-Heptane	RT_S1_12	A	Retention time (cycle time through the column) for n-heptane from the last analysis for stream 1	8424	Float	R	s
3.3.39	ET n-Heptane	EndTime_S1_12	A	Peak end time for n-heptane (upper limit of integration) from the last analysis for stream 1	8474	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.3.40	ST n-Octane	StartTime_S1_13	A	Peak start time for n-octane (lower limit of integration) from the last analysis for stream 1	8376	Float	R	s
3.3.41	RT n-Octane	RT_S1_13	A	Retention time (cycle time through the column) for n-octane from the last analysis for stream 1	8426	Float	R	s
3.3.42	ET n-Octane	EndTime_S1_13	A	Peak end time for n-octane (upper limit of integration) from the last analysis for stream 1	8476	Float	R	s
3.3.43	ST n-Nonane	StartTime_S1_14	A	Peak start time for n-nonane (lower limit of integration) from the last analysis for stream 1	8378	Float	R	s
3.3.44	RT n-Nonane	RT_S1_14	A	Retention time (cycle time through the column) for n-nonane from the last analysis for stream 1	8428	Float	R	s
3.3.45	ET n-Nonane	EndTime_S1_14	A	Peak end time for n-nonane (upper limit of integration) from the last analysis for stream 1	8478	Float	R	s
3.3.46	ST Oxygen	StartTime_S1_15	A	Peak start time for oxygen (lower limit of integration) from the last analysis for stream 1	8380	Float	R	s
3.3.47	RT Oxygen	RT_S1_15	A	Retention time (cycle time through the column) for oxygen from the last analysis for stream 1	8430	Float	R	s
3.3.48	ET Oxygen	EndTime_S1_15	A	Peak end time for oxygen (upper limit of integration) from the last analysis for stream 1	8480	Float	R	s
3.3.49	ST Helium	StartTime_S1_16	A	Peak start time for helium (lower limit of integration) from the last analysis for stream 1	8382	Float	R	s
3.3.50	RT Helium	RT_S1_16	A	Retention time (cycle time through the column) for helium from the last analysis for stream 1	8432	Float	R	s
3.3.51	ET Helium	EndTime_S1_16	A	Peak end time for helium (upper limit of integration) from the last analysis for stream 1	8482	Float	R	s
3.3.52	ST Hydrogen	StartTime_S1_17	A	Peak start time for hydrogen (lower limit of integration) from the last analysis for stream 1	8384	Float	R	s
3.3.53	RT Hydrogen	RT_S1_17	A	Retention time (cycle time through the column) for hydrogen from the last analysis for stream 1	8434	Float	R	s
3.3.54	ET Hydrogen	EndTime_S1_17	A	Peak end time for hydrogen (upper limit of integration) from the last analysis for stream 1	8484	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
3.3.55	ST Argon	StartTime_S1_18	A	Peak start time for argon (lower limit of integration) from the last analysis for stream 1	8386	Float	R	s
3.3.56	RT Argon	RT_S1_18	A	Retention time (cycle time through the column) for argon from the last analysis for stream 1	8436	Float	R	s
3.3.57	ET Argon	EndTime_S1_18	A	Peak end time for argon (upper limit of integration) from the last analysis for stream 1	8486	Float	R	s
3.3.58	ST Methanol	StartTime_S1_19	A	Peak start time for methanol (lower limit of integration) from the last analysis for stream 1	8388	Float	R	s
3.3.59	RT Methanol	RT_S1_19	A	Retention time (cycle time through the column) for methanol from the last analysis for stream 1	8438	Float	R	s
3.3.60	ET Methanol	EndTime_S1_19	A	Peak end time for methanol (upper limit of integration) from the last analysis for stream 1	8488	Float	R	s
3.3.61	ST Hydrogensulfid	StartTime_S1_20	A	Peak start time for hydrogensulfid (lower limit of integration) from the last analysis for stream 1	21644	Float	R	s
3.3.62	RT Hydrogensulfid	RT_S1_20	A	Retention time (cycle time through the column) for hydrogensulfid from the last analysis for stream 1	21646	Float	R	s
3.3.63	ET Hydrogensulfid	EndTime_S1_20	A	Peak end time for hydrogensulfid (upper limit of integration) from the last analysis for stream 1	21648	Float	R	s
4.0.0	Stream-2 values	HEAD_4	A	-	1042	Titel	R	
4.0.1	stream no	StreamNo_S2	A	Channel (stream or gas) for which the current values are valid (Stream-2/OFF) For Modbus calls.	1043	Menü	R	
4.0.2	timestamp	Messzeit_S2	A	Date and time of last measurement for stream 2	3240	Unix-time	R	
4.0.3	timestamp: hours	Messzeit_S2_hours	A	Timestamp (hour) of the finished stream-2 analysis.	1980	Integer	R	
4.0.4	timestamp: minutes	Messzeit_S2_minutes	A	Timestamp (minute) of the finished stream-2 analysis.	1981	Integer	R	
4.0.5	timestamp: seconds	Messzeit_S2_seconds	A	Timestamp (second) of the finished stream-2 analysis.	1982	Integer	R	
4.0.6	timestamp: day	Messzeit_S2_day	A	Timestamp (day) of the finished stream-2 analysis.	1983	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.0.7	timestamp: month	Messzeit_S2_month	A	Timestamp (month) of the finished stream-2 analysis.	1984	Integer	R	
4.0.8	timestamp: year	Messzeit_S2_year	A	Timestamp (year) of the finished stream-2 analysis.	1985	Integer	R	
4.0.9	File name	ChromFile_S2	A	Filename under which the chromatogram for the last measurement for stream 2 is saved. (= date and time of this measurement)	5100	Text	R	YMDhms
4.0.10	Stream status	StreamStatus_S2	A	Status of the last measurement for stream 2 - OK: Last measurement was successful - FAULT: A fault occurred during the last measurement - UNPROCESSED: This stream was not yet measured.	1044	Menü	R	
4.0.11	Hs	Ho_S2	A	Superior calorific value from the last measuring gas analysis performed for stream 2	7040	Float	R	&UnitHs
4.0.12	Ws	Wo_S2	A	Wobbe index from the last measuring gas analysis performed for stream 2	7042	Float	R	&UnitHs
4.0.13	rho	Rhon_S2	A	Standard density from the last measuring gas analysis performed for stream 2	7044	Float	R	&UnitRhon
4.0.14	d	DV_S2	A	Relative density (standard density divided by standard density of air) from the last measuring gas analysis performed for stream 2	7046	Float	R	
4.0.15	Hi	Hu_S2	A	Inferior calorific value from the last measuring gas analysis performed for stream 2	7048	Float	R	&UnitHs
4.0.16	Wi	Wu_S2	A	Lower Wobbe index (calculated from the inferior calorific value) from the last measuring gas analysis performed for stream 2	7050	Float	R	&UnitHs
4.0.17	Zn	Zn_S2	A	Real gas factor (in standard condition) from the last measuring gas analysis performed for stream 2	7052	Float	R	
4.0.18	Mz	Mz_S2	A	Methane number from the last measuring gas analysis performed for stream 2, calculated according to DIN EN 16726 2019	7054	Float	R	
4.0.19	Unnormalized sum	UnNormSum_S2	A	Unnormalized sum of the components (before normalization to 100%) from the last measuring gas analysis performed for stream 2	7056	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.0.20	Column Component State 1	Component-State_S2_0	A	Status of the first 16 measured/calculated components of the 2. stream each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2235	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.0.21	Column Component State 2	Component-State_S2_1	A	Status of the second 16 measured/calculated components of the 2. stream each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2236	Integer	R	hex
4.1.0	Concentrations	HEAD_4_1	A	-	1045	Titel	R	
4.1.1	Nitrogen	Concentration_S2_0	A	Molar content of nitrogen (after normalization) from the last measuring gas analysis performed for stream 2	8500	Float	R	mol%
4.1.2	Methane	Concentration_S2_1	A	Molar content of methane (after normalization) from the last measuring gas analysis performed for stream 2	8502	Float	R	mol%
4.1.3	Carbon Dioxide	Concentration_S2_2	A	Molar content of carbon dioxide (after normalization) from the last measuring gas analysis performed for stream 2	8504	Float	R	mol%
4.1.4	Ethane	Concentration_S2_3	A	Molar content of ethane (after normalization) from the last measuring gas analysis performed for stream 2	8506	Float	R	mol%
4.1.5	Propane	Concentration_S2_4	A	Molar content of propane (after normalization) from the last measuring gas analysis performed for stream 2	8508	Float	R	mol%
4.1.6	iso-Butane	Concentration_S2_5	A	Molar content of i-butane (after normalization) from the last measuring gas analysis performed for stream 2	8510	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.1.7	n-Butane	Concentration_S2_6	A	Molar content of n-butane (after normalization) from the last measuring gas analysis performed for stream 2	8512	Float	R	mol%
4.1.8	neo-Pentane	Concentration_S2_7	A	Molar content of neopentane (after normalization) from the last measuring gas analysis performed for stream 2	8514	Float	R	mol%
4.1.9	iso-Pentane	Concentration_S2_8	A	Molar content of i-pentane (after normalization) from the last measuring gas analysis performed for stream 2	8516	Float	R	mol%
4.1.10	n-Pentane	Concentration_S2_9	A	Molar content of n-pentane (after normalization) from the last measuring gas analysis performed for stream 2	8518	Float	R	mol%
4.1.11	C6+	Concentration_S2_10	A	Molar content of C6+ (after normalization) from the last measuring gas analysis performed for stream 2	8520	Float	R	mol%
4.1.12	n-Hexane	Concentration_S2_11	A	Molar content of n-hexane (after normalization) from the last measuring gas analysis performed for stream 2	8522	Float	R	mol%
4.1.13	n-Heptane	Concentration_S2_12	A	Molar content of n-heptane (after normalization) from the last measuring gas analysis performed for stream 2	8524	Float	R	mol%
4.1.14	n-Octane	Concentration_S2_13	A	Molar content of n-octane (after normalization) from the last measuring gas analysis performed for stream 2	8526	Float	R	mol%
4.1.15	n-Nonane	Concentration_S2_14	A	Molar content of n-nonane (after normalization) from the last measuring gas analysis performed for stream 2	8528	Float	R	mol%
4.1.16	Oxygen	Concentration_S2_15	A	Molar content of oxygen (after normalization) from the last measuring gas analysis performed for stream 2	8530	Float	R	mol%
4.1.17	Helium	Concentration_S2_16	A	Molar content of helium (after normalization) from the last measuring gas analysis performed for stream 2	8532	Float	R	mol%
4.1.18	Hydrogen	Concentration_S2_17	A	Molar content of hydrogen (after normalization) from the last measuring gas analysis performed for stream 2	8534	Float	R	mol%
4.1.19	Argon	Concentration_S2_18	A	Molar content of argon (after normalization) from the last measuring gas analysis performed for stream 2	8536	Float	R	mol%
4.1.20	Methanol	Concentration_S2_19	A	Molar content of methanol (after normalization) from the last measuring gas analysis performed for stream 2	8538	Float	R	mol%
4.1.21	Hydrogensulfid	Concentration_S2_20	A	Molar content of hydrogensulfid (after normalization) from the last measuring gas analysis performed for stream 2	21650	Float	R	mol%
4.2.0	Areas	HEAD_4_2	A	-	1046	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.2.1	Nitrogen	Area_S2_0	A	Peak area for nitrogen in the chromatogram from the last analysis for stream 2	8550	Float	R	
4.2.2	Methane	Area_S2_1	A	Peak area for methane in the chromatogram from the last analysis for stream 2	8552	Float	R	
4.2.3	Carbon Dioxide	Area_S2_2	A	Peak area for carbon dioxide in the chromatogram from the last analysis for stream 2	8554	Float	R	
4.2.4	Ethane	Area_S2_3	A	Peak area for ethane in the chromatogram from the last analysis for stream 2	8556	Float	R	
4.2.5	Propane	Area_S2_4	A	Peak area for propane in the chromatogram from the last analysis for stream 2	8558	Float	R	
4.2.6	iso-Butane	Area_S2_5	A	Peak area for i-butane in the chromatogram from the last analysis for stream 2	8560	Float	R	
4.2.7	n-Butane	Area_S2_6	A	Peak area for n-butane in the chromatogram from the last analysis for stream 2	8562	Float	R	
4.2.8	neo-Pentane	Area_S2_7	A	Peak area for neopentane in the chromatogram from the last analysis for stream 2	8564	Float	R	
4.2.9	iso-Pentane	Area_S2_8	A	Peak area for i-pentane in the chromatogram from the last analysis for stream 2	8566	Float	R	
4.2.10	n-Pentane	Area_S2_9	A	Peak area for n-pentane in the chromatogram from the last analysis for stream 2	8568	Float	R	
4.2.11	C6+	Area_S2_10	A	Peak area for C6+ in the chromatogram from the last analysis for stream 2	8570	Float	R	
4.2.12	n-Hexane	Area_S2_11	A	Peak area for n-hexane in the chromatogram from the last analysis for stream 2	8572	Float	R	
4.2.13	n-Heptane	Area_S2_12	A	Peak area for n-heptane in the chromatogram from the last analysis for stream 2	8574	Float	R	
4.2.14	n-Octane	Area_S2_13	A	Peak area for n-octane in the chromatogram from the last analysis for stream 2	8576	Float	R	
4.2.15	n-Nonane	Area_S2_14	A	Peak area for n-nonane in the chromatogram from the last analysis for stream 2	8578	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.2.16	Oxygen	Area_S2_15	A	Peak area for oxygen in the chromatogram from the last analysis for stream 2	8580	Float	R	
4.2.17	Helium	Area_S2_16	A	Peak area for helium in the chromatogram from the last analysis for stream 2	8582	Float	R	
4.2.18	Hydrogen	Area_S2_17	A	Peak area for hydrogen in the chromatogram from the last analysis for stream 2	8584	Float	R	
4.2.19	Argon	Area_S2_18	A	Peak area for argon in the chromatogram from the last analysis for stream 2	8586	Float	R	
4.2.20	Methanol	Area_S2_19	A	Peak area for methanol in the chromatogram from the last analysis for stream 2	8588	Float	R	
4.2.21	Hydrogensulfid	Area_S2_20	A	Peak area for hydrogensulfid in the chromatogram from the last analysis for stream 2	21652	Float	R	
4.3.0	Times	HEAD_4_3	A	-	1047	Titel	R	
4.3.1	ST Nitrogen	StartTime_S2_0	A	Peak start time for nitrogen (lower limit of integration) from the last analysis for stream 2	8600	Float	R	s
4.3.2	RT Nitrogen	RT_S2_0	A	Retention time (cycle time through the column) for nitrogen from the last analysis for stream 2	8650	Float	R	s
4.3.3	ET Nitrogen	EndTime_S2_0	A	Peak end time for nitrogen (upper limit of integration) from the last analysis for stream 2	8700	Float	R	s
4.3.4	ST Methane	StartTime_S2_1	A	Peak start time for methane (lower limit of integration) from the last analysis for stream 2	8602	Float	R	s
4.3.5	RT Methane	RT_S2_1	A	Retention time (cycle time through the column) for methane from the last analysis for stream 2	8652	Float	R	s
4.3.6	ET Methane	EndTime_S2_1	A	Peak end time for methane (upper limit of integration) from the last analysis for stream 2	8702	Float	R	s
4.3.7	ST Carbon Dioxide	StartTime_S2_2	A	Peak start time for carbon dioxide (lower limit of integration) from the last analysis for stream 2	8604	Float	R	s
4.3.8	RT Carbon Dioxide	RT_S2_2	A	Retention time (cycle time through the column) for carbon dioxide from the last analysis for stream 2	8654	Float	R	s
4.3.9	ET Carbon Dioxide	EndTime_S2_2	A	Peak end time for carbon dioxide (upper limit of integration) from the last analysis for stream 2	8704	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.3.10	ST Ethane	StartTime_S2_3	A	Peak start time for ethane (lower limit of integration) from the last analysis for stream 2	8606	Float	R	s
4.3.11	RT Ethane	RT_S2_3	A	Retention time (cycle time through the column) for ethane from the last analysis for stream 2	8656	Float	R	s
4.3.12	ET Ethane	EndTime_S2_3	A	Peak end time for ethane (upper limit of integration) from the last analysis for stream 2	8706	Float	R	s
4.3.13	ST Propane	StartTime_S2_4	A	Peak start time for propane (lower limit of integration) from the last analysis for stream 2	8608	Float	R	s
4.3.14	RT Propane	RT_S2_4	A	Retention time (cycle time through the column) for propane from the last analysis for stream 2	8658	Float	R	s
4.3.15	ET Propane	EndTime_S2_4	A	Peak end time for propane (upper limit of integration) from the last analysis for stream 2	8708	Float	R	s
4.3.16	ST iso-Butane	StartTime_S2_5	A	Peak start time for i-butane (lower limit of integration) from the last analysis for stream 2	8610	Float	R	s
4.3.17	RT iso-Butane	RT_S2_5	A	Retention time (cycle time through the column) for i-butane from the last analysis for stream 2	8660	Float	R	s
4.3.18	ET iso-Butane	EndTime_S2_5	A	Peak end time for i-butane (upper limit of integration) from the last analysis for stream 2	8710	Float	R	s
4.3.19	ST n-Butane	StartTime_S2_6	A	Peak start time for n-butane (lower limit of integration) from the last analysis for stream 2	8612	Float	R	s
4.3.20	RT n-Butane	RT_S2_6	A	Retention time (cycle time through the column) for n-butane from the last analysis for stream 2	8662	Float	R	s
4.3.21	ET n-Butane	EndTime_S2_6	A	Peak end time for n-butane (upper limit of integration) from the last analysis for stream 2	8712	Float	R	s
4.3.22	ST neo-Pentane	StartTime_S2_7	A	Peak start time for neopentane (lower limit of integration) from the last analysis for stream 2	8614	Float	R	s
4.3.23	RT neo-Pentane	RT_S2_7	A	Retention time (cycle time through the column) for neopentane from the last analysis for stream 2	8664	Float	R	s
4.3.24	ET neo-Pentane	EndTime_S2_7	A	Peak end time for neopentane (upper limit of integration) from the last analysis for stream 2	8714	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.3.25	ST iso-Pentane	StartTime_S2_8	A	Peak start time for i-pentane (lower limit of integration) from the last analysis for stream 2	8616	Float	R	s
4.3.26	RT iso-Pentane	RT_S2_8	A	Retention time (cycle time through the column) for i-pentane from the last analysis for stream 2	8666	Float	R	s
4.3.27	ET iso-Pentane	EndTime_S2_8	A	Peak end time for i-pentane (upper limit of integration) from the last analysis for stream 2	8716	Float	R	s
4.3.28	ST n-Pentane	StartTime_S2_9	A	Peak start time for n-pentane (lower limit of integration) from the last analysis for stream 2	8618	Float	R	s
4.3.29	RT n-Pentane	RT_S2_9	A	Retention time (cycle time through the column) for n-pentane from the last analysis for stream 2	8668	Float	R	s
4.3.30	ET n-Pentane	EndTime_S2_9	A	Peak end time for n-pentane (upper limit of integration) from the last analysis for stream 2	8718	Float	R	s
4.3.31	ST C6+	StartTime_S2_10	A	Peak start time for C6+ (lower limit of integration) from the last analysis for stream 2	8620	Float	R	s
4.3.32	RT C6+	RT_S2_10	A	Retention time (cycle time through the column) for C6+ from the last analysis for stream 2	8670	Float	R	s
4.3.33	ET C6+	EndTime_S2_10	A	Peak end time for C6+ (upper limit of integration) from the last analysis for stream 2	8720	Float	R	s
4.3.34	ST n-Hexane	StartTime_S2_11	A	Peak start time for n-hexane (lower limit of integration) from the last analysis for stream 2	8622	Float	R	s
4.3.35	RT n-Hexane	RT_S2_11	A	Retention time (cycle time through the column) for n-hexane from the last analysis for stream 2	8672	Float	R	s
4.3.36	ET n-Hexane	EndTime_S2_11	A	Peak end time for n-hexane (upper limit of integration) from the last analysis for stream 2	8722	Float	R	s
4.3.37	ST n-Heptane	StartTime_S2_12	A	Peak start time for n-heptane (lower limit of integration) from the last analysis for stream 2	8624	Float	R	s
4.3.38	RT n-Heptane	RT_S2_12	A	Retention time (cycle time through the column) for n-heptane from the last analysis for stream 2	8674	Float	R	s
4.3.39	ET n-Heptane	EndTime_S2_12	A	Peak end time for n-heptane (upper limit of integration) from the last analysis for stream 2	8724	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.3.40	ST n-Octane	StartTime_S2_13	A	Peak start time for n-octane (lower limit of integration) from the last analysis for stream 2	8626	Float	R	s
4.3.41	RT n-Octane	RT_S2_13	A	Retention time (cycle time through the column) for n-octane from the last analysis for stream 2	8676	Float	R	s
4.3.42	ET n-Octane	EndTime_S2_13	A	Peak end time for n-octane (upper limit of integration) from the last analysis for stream 2	8726	Float	R	s
4.3.43	ST n-Nonane	StartTime_S2_14	A	Peak start time for n-nonane (lower limit of integration) from the last analysis for stream 2	8628	Float	R	s
4.3.44	RT n-Nonane	RT_S2_14	A	Retention time (cycle time through the column) for n-nonane from the last analysis for stream 2	8678	Float	R	s
4.3.45	ET n-Nonane	EndTime_S2_14	A	Peak end time for n-nonane (upper limit of integration) from the last analysis for stream 2	8728	Float	R	s
4.3.46	ST Oxygen	StartTime_S2_15	A	Peak start time for oxygen (lower limit of integration) from the last analysis for stream 2	8630	Float	R	s
4.3.47	RT Oxygen	RT_S2_15	A	Retention time (cycle time through the column) for oxygen from the last analysis for stream 2	8680	Float	R	s
4.3.48	ET Oxygen	EndTime_S2_15	A	Peak end time for oxygen (upper limit of integration) from the last analysis for stream 2	8730	Float	R	s
4.3.49	ST Helium	StartTime_S2_16	A	Peak start time for helium (lower limit of integration) from the last analysis for stream 2	8632	Float	R	s
4.3.50	RT Helium	RT_S2_16	A	Retention time (cycle time through the column) for helium from the last analysis for stream 2	8682	Float	R	s
4.3.51	ET Helium	EndTime_S2_16	A	Peak end time for helium (upper limit of integration) from the last analysis for stream 2	8732	Float	R	s
4.3.52	ST Hydrogen	StartTime_S2_17	A	Peak start time for hydrogen (lower limit of integration) from the last analysis for stream 2	8634	Float	R	s
4.3.53	RT Hydrogen	RT_S2_17	A	Retention time (cycle time through the column) for hydrogen from the last analysis for stream 2	8684	Float	R	s
4.3.54	ET Hydrogen	EndTime_S2_17	A	Peak end time for hydrogen (upper limit of integration) from the last analysis for stream 2	8734	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
4.3.55	ST Argon	StartTime_S2_18	A	Peak start time for argon (lower limit of integration) from the last analysis for stream 2	8636	Float	R	s
4.3.56	RT Argon	RT_S2_18	A	Retention time (cycle time through the column) for argon from the last analysis for stream 2	8686	Float	R	s
4.3.57	ET Argon	EndTime_S2_18	A	Peak end time for argon (upper limit of integration) from the last analysis for stream 2	8736	Float	R	s
4.3.58	ST Methanol	StartTime_S2_19	A	Peak start time for methanol (lower limit of integration) from the last analysis for stream 2	8638	Float	R	s
4.3.59	RT Methanol	RT_S2_19	A	Retention time (cycle time through the column) for methanol from the last analysis for stream 2	8688	Float	R	s
4.3.60	ET Methanol	EndTime_S2_19	A	Peak end time for methanol (upper limit of integration) from the last analysis for stream 2	8738	Float	R	s
4.3.61	ST Hydrogensulfid	StartTime_S2_20	A	Peak start time for hydrogensulfid (lower limit of integration) from the last analysis for stream 2	21654	Float	R	s
4.3.62	RT Hydrogensulfid	RT_S2_20	A	Retention time (cycle time through the column) for hydrogensulfid from the last analysis for stream 2	21656	Float	R	s
4.3.63	ET Hydrogensulfid	EndTime_S2_20	A	Peak end time for hydrogensulfid (upper limit of integration) from the last analysis for stream 2	21658	Float	R	s
7.0.0	Reference gas values	HEAD_7	A	-	1060	Titel	R	
7.0.1	stream no	StreamNo_Ref	A	Channel (stream or gas) for which the current values are valid (REF-GAS/OFF) For Modbus calls.	1061	Menü	R	
7.0.2	timestamp	Messzeit_Ref	A	Date and time of last measurement for reference gas	3246	Unix-time	R	
7.0.3	timestamp: hours	Messzeit_Ref_hours	A	Timestamp (hour) of the finished reference gas analysis.	1998	Integer	R	
7.0.4	timestamp: minutes	Messzeit_Ref_minutes	A	Timestamp (minute) of the finished reference gas analysis.	1999	Integer	R	
7.0.5	timestamp: seconds	Messzeit_Ref_seconds	A	Timestamp (second) of the finished reference gas analysis.	2000	Integer	R	
7.0.6	timestamp: day	Messzeit_Ref_day	A	Timestamp (day) of the finished reference gas analysis.	2001	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.0.7	timestamp: month	Messzeit_Ref_month	A	Timestamp (month) of the finished reference gas analysis.	2002	Integer	R	
7.0.8	timestamp: year	Messzeit_Ref_year	A	Timestamp (year) of the finished reference gas analysis.	2003	Integer	R	
7.0.9	File name	ChromFile_Ref	A	Filename under which the chromatogram for the last measurement for reference gas is saved (= date and time of this measurement).	5220	Text	R	YMDhms
7.0.10	Stream status	StreamStatus_Ref	A	Status of the last reference gas measurement - OK: Last measurement was successful - FAULT: A fault occurred during the last measurement - UNPROCESSED: This stream was not yet measured.	1062	Menü	R	
7.0.11	Hs	Ho_Ref	A	Superior calorific value from the last reference gas analysis performed	7100	Float	R	&UnitHs
7.0.12	Ws	Wo_Ref	A	Wobbe index from the last reference gas analysis performed	7102	Float	R	&UnitHs
7.0.13	rho	Rhon_Ref	A	Standard density from the last reference gas analysis performed	7104	Float	R	&UnitRhon
7.0.14	d	DV_Ref	A	Relative density (standard density divided by standard density of air) from the last reference gas analysis performed	7106	Float	R	
7.0.15	Hi	Hu_Ref	A	Inferior calorific value from the last reference gas analysis performed	7108	Float	R	&UnitHs
7.0.16	Wi	Wu_Ref	A	Lower Wobbe index (calculated from the inferior calorific value) from the last reference gas analysis performed	7110	Float	R	&UnitHs
7.0.17	Zn	Zn_Ref	A	Real gas factor (in standard condition) from the last reference gas analysis performed	7112	Float	R	
7.0.18	Mz	Mz_Ref	A	Methane number from the last reference gas analysis performed, calculated according to DIN EN 16726 2019	7114	Float	R	
7.0.19	Unnormalized sum	UnNormSum_Ref	A	Unnormalized sum of the components (before normalization to 100%) from the last reference gas analysis	7116	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.0.20	Column Component State 1	Component-State_Ref_0	A	Status of the first 16 measured/calculated components of the ref gas stream each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2241	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.0.21	Column Component State 2	Component-State_Ref_1	A	Status of the second 16 measured/calculated components of the ref gas stream each: 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2242	Integer	R	hex
7.0.23	Ref. status	RefGasStatus	A	Status of reefing gas	2301	Integer	R	hex
7.1.0	Concentrations	HEAD_7_1	A	-	1063	Titel	R	
7.1.1	Nitrogen	Concentration_Ref_0	A	Molar content of nitrogen (after normalization) from the last reference gas analysis	9250	Float	R	mol%
7.1.2	Methane	Concentration_Ref_1	A	Molar content of methane (after normalization) from the last reference gas analysis	9252	Float	R	mol%
7.1.3	Carbon Dioxide	Concentration_Ref_2	A	Molar content of carbon dioxide (after normalization) from the last reference gas analysis	9254	Float	R	mol%
7.1.4	Ethane	Concentration_Ref_3	A	Molar content of ethane (after normalization) from the last reference gas analysis	9256	Float	R	mol%
7.1.5	Propane	Concentration_Ref_4	A	Molar content of propane (after normalization) from the last reference gas analysis	9258	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.1.6	iso-Butane	Concentration_Ref_5	A	Molar content of i-butane (after normalization) from the last reference gas analysis	9260	Float	R	mol%
7.1.7	n-Butane	Concentration_Ref_6	A	Molar content of n-butane (after normalization) from the last reference gas analysis	9262	Float	R	mol%
7.1.8	neo-Pentane	Concentration_Ref_7	A	Molar content of neopentane (after normalization) from the last reference gas analysis	9264	Float	R	mol%
7.1.9	iso-Pentane	Concentration_Ref_8	A	Molar content of i-pentane (after normalization) from the last reference gas analysis	9266	Float	R	mol%
7.1.10	n-Pentane	Concentration_Ref_9	A	Molar content of n-pentane (after normalization) from the last reference gas analysis	9268	Float	R	mol%
7.1.11	C6+	Concentration_Ref_10	A	Molar content of C6+ (after normalization) from the last reference gas analysis	9270	Float	R	mol%
7.1.12	n-Hexane	Concentration_Ref_11	A	Molar content of n-hexane (after normalization) from the last reference gas analysis	9272	Float	R	mol%
7.1.13	n-Heptane	Concentration_Ref_12	A	Molar content of n-heptane (after normalization) from the last reference gas analysis	9274	Float	R	mol%
7.1.14	n-Octane	Concentration_Ref_13	A	Molar content of n-octane (after normalization) from the last reference gas analysis	9276	Float	R	mol%
7.1.15	n-Nonane	Concentration_Ref_14	A	Molar content of n-nonane (after normalization) from the last reference gas analysis	9278	Float	R	mol%
7.1.16	Oxygen	Concentration_Ref_15	A	Molar content of oxygen (after normalization) from the last reference gas analysis	9280	Float	R	mol%
7.1.17	Helium	Concentration_Ref_16	A	Molar content of helium (after normalization) from the last reference gas analysis	9282	Float	R	mol%
7.1.18	Hydrogen	Concentration_Ref_17	A	Molar content of hydrogen (after normalization) from the last reference gas analysis	9284	Float	R	mol%
7.1.19	Argon	Concentration_Ref_18	A	Molar content of argon (after normalization) from the last reference gas analysis	9286	Float	R	mol%
7.1.20	Methanol	Concentration_Ref_19	A	Molar content of methanol (after normalization) from the last reference gas analysis	9288	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.1.21	Hydrogensulfid	Concentration_Ref_20	A	Molar content of hydrogensulfid (after normalization) from the last reference gas analysis	21680	Float	R	mol%
7.2.0	Areas	HEAD_7_2	A	-	1064	Titel	R	
7.2.1	Nitrogen	Area_Ref_0	A	Peak area for nitrogen in the chromatogram from the last reference gas analysis	9300	Float	R	
7.2.2	Methane	Area_Ref_1	A	Peak area for methane in the chromatogram from the last reference gas analysis	9302	Float	R	
7.2.3	Carbon Dioxide	Area_Ref_2	A	Peak area for carbon dioxide in the chromatogram from the last reference gas analysis	9304	Float	R	
7.2.4	Ethane	Area_Ref_3	A	Peak area for ethane in the chromatogram from the last reference gas analysis	9306	Float	R	
7.2.5	Propane	Area_Ref_4	A	Peak area for propane in the chromatogram from the last reference gas analysis	9308	Float	R	
7.2.6	iso-Butane	Area_Ref_5	A	Peak area for i-butane in the chromatogram from the last reference gas analysis	9310	Float	R	
7.2.7	n-Butane	Area_Ref_6	A	Peak area for n-butane in the chromatogram from the last reference gas analysis	9312	Float	R	
7.2.8	neo-Pentane	Area_Ref_7	A	Peak area for neopentane in the chromatogram from the last reference gas analysis	9314	Float	R	
7.2.9	iso-Pentane	Area_Ref_8	A	Peak area for i-pentane in the chromatogram from the last reference gas analysis	9316	Float	R	
7.2.10	n-Pentane	Area_Ref_9	A	Peak area for n-pentane in the chromatogram from the last reference gas analysis	9318	Float	R	
7.2.11	C6+	Area_Ref_10	A	Peak area for C6+ in the chromatogram from the last reference gas analysis	9320	Float	R	
7.2.12	n-Hexane	Area_Ref_11	A	Peak area for n-hexane in the chromatogram from the last reference gas analysis	9322	Float	R	
7.2.13	n-Heptane	Area_Ref_12	A	Peak area for n-heptane in the chromatogram from the last reference gas analysis	9324	Float	R	
7.2.14	n-Octane	Area_Ref_13	A	Peak area for n-octane in the chromatogram from the last reference gas analysis	9326	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.2.15	n-Nonane	Area_Ref_14	A	Peak area for n-nonane in the chromatogram from the last reference gas analysis	9328	Float	R	
7.2.16	Oxygen	Area_Ref_15	A	Peak area for oxygen in the chromatogram from the last reference gas analysis	9330	Float	R	
7.2.17	Helium	Area_Ref_16	A	Peak area for helium in the chromatogram from the last reference gas analysis	9332	Float	R	
7.2.18	Hydrogen	Area_Ref_17	A	Peak area for hydrogen in the chromatogram from the last reference gas analysis	9334	Float	R	
7.2.19	Argon	Area_Ref_18	A	Peak area for argon in the chromatogram from the last reference gas analysis	9336	Float	R	
7.2.20	Methanol	Area_Ref_19	A	Peak area for methanol in the chromatogram from the last reference gas analysis	9338	Float	R	
7.2.21	Hydrogensulfid	Area_Ref_20	A	Peak area for hydrogensulfid in the chromatogram from the last reference gas analysis	21682	Float	R	
7.3.0	Times	HEAD_7_3	A	-	1065	Titel	R	
7.3.1	ST Nitrogen	StartTime_Ref_0	A	Peak start time for nitrogen (lower limit of integration) from the last reference gas analysis	9350	Float	R	s
7.3.2	RT Nitrogen	RT_Ref_0	A	Retention time (cycle time through the column) for nitrogen from the last reference gas analysis	9400	Float	R	s
7.3.3	ET Nitrogen	EndTime_Ref_0	A	Peak end time for nitrogen (upper limit of integration) from the last reference gas analysis	9450	Float	R	s
7.3.4	ST Methane	StartTime_Ref_1	A	Peak start time for methane (lower limit of integration) from the last reference gas analysis	9352	Float	R	s
7.3.5	RT Methane	RT_Ref_1	A	Retention time (cycle time through the column) for methane from the last reference gas analysis	9402	Float	R	s
7.3.6	ET Methane	EndTime_Ref_1	A	Peak end time for methane (upper limit of integration) from the last reference gas analysis	9452	Float	R	s
7.3.7	ST Carbon Dioxide	StartTime_Ref_2	A	Peak start time for carbon dioxide (lower limit of integration) from the last reference gas analysis	9354	Float	R	s
7.3.8	RT Carbon Dioxide	RT_Ref_2	A	Retention time (cycle time through the column) for carbon dioxide from the last reference gas analysis	9404	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.3.9	ET Carbon Dioxide	EndTime_Ref_2	A	Peak end time for carbon dioxide (upper limit of integration) from the last reference gas analysis	9454	Float	R	s
7.3.10	ST Ethane	StartTime_Ref_3	A	Peak start time for ethane (lower limit of integration) from the last reference gas analysis	9356	Float	R	s
7.3.11	RT Ethane	RT_Ref_3	A	Retention time (cycle time through the column) for ethane from the last reference gas analysis	9406	Float	R	s
7.3.12	ET Ethane	EndTime_Ref_3	A	Peak end time for ethane (upper limit of integration) from the last reference gas analysis	9456	Float	R	s
7.3.13	ST Propane	StartTime_Ref_4	A	Peak start time for propane (lower limit of integration) from the last reference gas analysis	9358	Float	R	s
7.3.14	RT Propane	RT_Ref_4	A	Retention time (cycle time through the column) for propane from the last reference gas analysis	9408	Float	R	s
7.3.15	ET Propane	EndTime_Ref_4	A	Peak end time for propane (upper limit of integration) from the last reference gas analysis	9458	Float	R	s
7.3.16	ST iso-Butane	StartTime_Ref_5	A	Peak start time for i-butane (lower limit of integration) from the last reference gas analysis	9360	Float	R	s
7.3.17	RT iso-Butane	RT_Ref_5	A	Retention time (cycle time through the column) for i-butane from the last reference gas analysis	9410	Float	R	s
7.3.18	ET iso-Butane	EndTime_Ref_5	A	Peak end time for i-butane (upper limit of integration) from the last reference gas analysis	9460	Float	R	s
7.3.19	ST n-Butane	StartTime_Ref_6	A	Peak start time for n-butane (lower limit of integration) from the last reference gas analysis	9362	Float	R	s
7.3.20	RT n-Butane	RT_Ref_6	A	Retention time (cycle time through the column) for n-butane from the last reference gas analysis	9412	Float	R	s
7.3.21	ET n-Butane	EndTime_Ref_6	A	Peak end time for n-butane (upper limit of integration) from the last reference gas analysis	9462	Float	R	s
7.3.22	ST neo-Pentane	StartTime_Ref_7	A	Peak start time for neopentane (lower limit of integration) from the last reference gas analysis	9364	Float	R	s
7.3.23	RT neo-Pentane	RT_Ref_7	A	Retention time (cycle time through the column) for neopentane from the last reference gas analysis	9414	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.3.24	ET neo-Pentane	EndTime_Ref_7	A	Peak end time for neopentane (upper limit of integration) from the last reference gas analysis	9464	Float	R	s
7.3.25	ST iso-Pentane	StartTime_Ref_8	A	Peak start time for i-pentane (lower limit of integration) from the last reference gas analysis	9366	Float	R	s
7.3.26	RT iso-Pentane	RT_Ref_8	A	Retention time (cycle time through the column) for i-pentane from the last reference gas analysis	9416	Float	R	s
7.3.27	ET iso-Pentane	EndTime_Ref_8	A	Peak end time for i-pentane (upper limit of integration) from the last reference gas analysis	9466	Float	R	s
7.3.28	ST n-Pentane	StartTime_Ref_9	A	Peak start time for n-pentane (lower limit of integration) from the last reference gas analysis	9368	Float	R	s
7.3.29	RT n-Pentane	RT_Ref_9	A	Retention time (cycle time through the column) for n-pentane from the last reference gas analysis	9418	Float	R	s
7.3.30	ET n-Pentane	EndTime_Ref_9	A	Peak end time for n-pentane (upper limit of integration) from the last reference gas analysis	9468	Float	R	s
7.3.31	ST C6+	StartTime_Ref_10	A	Peak start time for C6+ (lower limit of integration) from the last reference gas analysis	9370	Float	R	s
7.3.32	RT C6+	RT_Ref_10	A	Retention time (cycle time through the column) for C6+ from the last reference gas analysis	9420	Float	R	s
7.3.33	ET C6+	EndTime_Ref_10	A	Peak end time for C6+ (upper limit of integration) from the last reference gas analysis	9470	Float	R	s
7.3.34	ST n-Hexane	StartTime_Ref_11	A	Peak start time for n-hexane (lower limit of integration) from the last reference gas analysis	9372	Float	R	s
7.3.35	RT n-Hexane	RT_Ref_11	A	Retention time (cycle time through the column) for n-hexane from the last reference gas analysis	9422	Float	R	s
7.3.36	ET n-Hexane	EndTime_Ref_11	A	Peak end time for n-hexane (upper limit of integration) from the last reference gas analysis	9472	Float	R	s
7.3.37	ST n-Heptane	StartTime_Ref_12	A	Peak start time for n-heptane (lower limit of integration) from the last reference gas analysis	9374	Float	R	s
7.3.38	RT n-Heptane	RT_Ref_12	A	Retention time (cycle time through the column) for n-heptane from the last reference gas analysis	9424	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.3.39	ET n-Heptane	EndTime_Ref_12	A	Peak end time for n-heptane (upper limit of integration) from the last reference gas analysis	9474	Float	R	s
7.3.40	ST n-Octane	StartTime_Ref_13	A	Peak start time for n-octane (lower limit of integration) from the last reference gas analysis	9376	Float	R	s
7.3.41	RT n-Octane	RT_Ref_13	A	Retention time (cycle time through the column) for n-octane from the last reference gas analysis	9426	Float	R	s
7.3.42	ET n-Octane	EndTime_Ref_13	A	Peak end time for n-octane (upper limit of integration) from the last reference gas analysis	9476	Float	R	s
7.3.43	ST n-Nonane	StartTime_Ref_14	A	Peak start time for n-nonane (lower limit of integration) from the last reference gas analysis	9378	Float	R	s
7.3.44	RT n-Nonane	RT_Ref_14	A	Retention time (cycle time through the column) for n-nonane from the last reference gas analysis	9428	Float	R	s
7.3.45	ET n-Nonane	EndTime_Ref_14	A	Peak end time for n-nonane (upper limit of integration) from the last reference gas analysis	9478	Float	R	s
7.3.46	ST Oxygen	StartTime_Ref_15	A	Peak start time for oxygen (lower limit of integration) from the last reference gas analysis	9380	Float	R	s
7.3.47	RT Oxygen	RT_Ref_15	A	Retention time (cycle time through the column) for oxygen from the last reference gas analysis	9430	Float	R	s
7.3.48	ET Oxygen	EndTime_Ref_15	A	Peak end time for oxygen (upper limit of integration) from the last reference gas analysis	9480	Float	R	s
7.3.49	ST Helium	StartTime_Ref_16	A	Peak start time for helium (lower limit of integration) from the last reference gas analysis	9382	Float	R	s
7.3.50	RT Helium	RT_Ref_16	A	Retention time (cycle time through the column) for helium from the last reference gas analysis	9432	Float	R	s
7.3.51	ET Helium	EndTime_Ref_16	A	Peak end time for helium (upper limit of integration) from the last reference gas analysis	9482	Float	R	s
7.3.52	ST Hydrogen	StartTime_Ref_17	A	Peak start time for hydrogen (lower limit of integration) from the last reference gas analysis	9384	Float	R	s
7.3.53	RT Hydrogen	RT_Ref_17	A	Retention time (cycle time through the column) for hydrogen from the last reference gas analysis	9434	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
7.3.54	ET Hydrogen	EndTime_Ref_17	A	Peak end time for hydrogen (upper limit of integration) from the last reference gas analysis	9484	Float	R	s
7.3.55	ST Argon	StartTime_Ref_18	A	Peak start time for argon (lower limit of integration) from the last reference gas analysis	9386	Float	R	s
7.3.56	RT Argon	RT_Ref_18	A	Retention time (cycle time through the column) for argon from the last reference gas analysis	9436	Float	R	s
7.3.57	ET Argon	EndTime_Ref_18	A	Peak end time for argon (upper limit of integration) from the last reference gas analysis	9486	Float	R	s
7.3.58	ST Methanol	StartTime_Ref_19	A	Peak start time for methanol (lower limit of integration) from the last reference gas analysis	9388	Float	R	s
7.3.59	RT Methanol	RT_Ref_19	A	Retention time (cycle time through the column) for methanol from the last reference gas analysis	9438	Float	R	s
7.3.60	ET Methanol	EndTime_Ref_19	A	Peak end time for methanol (upper limit of integration) from the last reference gas analysis	9488	Float	R	s
7.3.61	ST Hydrogensulfid	StartTime_Ref_20	A	Peak start time for hydrogensulfid (lower limit of integration) from the last reference gas analysis	21684	Float	R	s
7.3.62	RT Hydrogensulfid	RT_Ref_20	A	Retention time (cycle time through the column) for hydrogensulfid from the last reference gas analysis	21686	Float	R	s
7.3.63	ET Hydrogensulfid	EndTime_Ref_20	A	Peak end time for hydrogensulfid (upper limit of integration) from the last reference gas analysis	21688	Float	R	s
8.0.0	Calibration gas values	HEAD_8	A	-	1066	Titel	R	
8.0.1	stream no	StreamNo_Cal	A	Channel (stream or gas) for which the current values are valid (Cal.-Gas/OFF) For Modbus calls.	1067	Menü	R	
8.0.2	timestamp	Messzeit_Cal	A	Date and time of last measurement for calibration gas	3248	Unix-time	R	
8.0.3	timestamp: hours	Messzeit - Cal_hours	A	Timestamp (hour) of the finished calibration gas analysis.	2004	Integer	R	
8.0.4	timestamp: minutes	Messzeit_Cal_minutes	A	Timestamp (minute) of the finished calibration gas analysis.	2005	Integer	R	
8.0.5	timestamp: seconds	Messzeit_Cal_seconds	A	Timestamp (second) of the finished calibration gas analysis.	2006	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.0.6	timestamp: day	Messzeit_Cal_day	A	Timestamp (day) of the finished calibration gas analysis.	2007	Integer	R	
8.0.7	timestamp: month	Messzeit_- Cal_month	A	Timestamp (month) of the finished calibration gas analysis.	2008	Integer	R	
8.0.8	timestamp: year	Messzeit_Cal_year	A	Timestamp (year) of the finished calibration gas analysis.	2009	Integer	R	
8.0.9	File name	ChromFile_Cal	A	Filename under which the chromatogram for the last measurement for calibration gas is saved (= date and time of this measurement).	5260	Text	R	YMDhms
8.0.10	Stream status	StreamStatus_Cal	A	Status of the last calibration gas measurement - OK: Last measurement was successful - FAULT: A fault occurred during the last measurement - UNPROCESSED: This stream was not yet measured.	1068	Menü	R	
8.0.11	Hs	Ho_Cal	A	Superior calorific value from the last calibration gas analysis performed	7120	Float	R	&UnitHs
8.0.12	Ws	Wo_Cal	A	Wobbe index from the last calibration gas analysis performed	7122	Float	R	&UnitHs
8.0.13	rho	Rhon_Cal	A	Standard density from the last calibration gas analysis performed	7124	Float	R	&UnitRhon
8.0.14	d	DV_Cal	A	Relative density (standard density divided by standard density of air) from the last calibration gas analysis performed	7126	Float	R	
8.0.15	Hi	Hu_Cal	A	Inferior calorific value from the last calibration gas analysis performed	7128	Float	R	&UnitHs
8.0.16	Wi	Wu_Cal	A	Lower Wobbe index (calculated from the inferior calorific value) from the last calibration gas analysis performed	7130	Float	R	&UnitHs
8.0.17	Zn	Zn_Cal	A	Real gas factor (in standard condition) from the last calibration gas analysis performed	7132	Float	R	
8.0.18	Mz	Mz_Cal	A	Methane number from the last calibration gas analysis performed, calculated according to DIN EN 16726 2019	7134	Float	R	
8.0.19	Unnormalized sum	UnNormSum_Cal	A	Unnormalized sum of the components (before normalization to 100%) from the last calibration gas analysis	7136	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.0.20	Column Component State 1	ComponentState_Cal_0	A	Status of the first 16 measured/calculated components of the cal gas stream each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2243	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.0.21	Column Component State 2	ComponentState_Cal_1	A	Status of the second 16 measured/calculated components of the cal gas stream each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2244	Integer	R	hex
8.1.0	Concentrations	HEAD_8_1	A	-	1069	Titel	R	
8.1.1	Nitrogen	Concentration_Cal_0	A	Molar content of nitrogen (after normalization) from the last calibration gas analysis	9500	Float	R	mol%
8.1.2	Methane	Concentration_Cal_1	A	Molar content of methane (after normalization) from the last calibration gas analysis	9502	Float	R	mol%
8.1.3	Carbon Dioxide	Concentration_Cal_2	A	Molar content of carbon dioxide (after normalization) from the last calibration gas analysis	9504	Float	R	mol%
8.1.4	Ethane	Concentration_Cal_3	A	Molar content of ethane (after normalization) from the last calibration gas analysis	9506	Float	R	mol%
8.1.5	Propane	Concentration_Cal_4	A	Molar content of propane (after normalization) from the last calibration gas analysis	9508	Float	R	mol%
8.1.6	iso-Butane	Concentration_Cal_5	A	Molar content of i-butane (after normalization) from the last calibration gas analysis	9510	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.1.7	n-Butane	Concentration_-Cal_6	A	Molar content of n-butane (after normalization) from the last calibration gas analysis	9512	Float	R	mol%
8.1.8	neo-Pentane	Concentration_-Cal_7	A	Molar content of neopentane (after normalization) from the last calibration gas analysis	9514	Float	R	mol%
8.1.9	iso-Pentane	Concentration_-Cal_8	A	Molar content of i-pentane (after normalization) from the last calibration gas analysis	9516	Float	R	mol%
8.1.10	n-Pentane	Concentration_-Cal_9	A	Molar content of n-pentane (after normalization) from the last calibration gas analysis	9518	Float	R	mol%
8.1.11	C6+	Concentration_-Cal_10	A	Molar content of C6+ (after normalization) from the last calibration gas analysis	9520	Float	R	mol%
8.1.12	n-Hexane	Concentration_-Cal_11	A	Molar content of n-hexane (after normalization) from the last calibration gas analysis	9522	Float	R	mol%
8.1.13	n-Heptane	Concentration_-Cal_12	A	Molar content of n-heptane (after normalization) from the last calibration gas analysis	9524	Float	R	mol%
8.1.14	n-Octane	Concentration_-Cal_13	A	Molar content of n-octane (after normalization) from the last calibration gas analysis	9526	Float	R	mol%
8.1.15	n-Nonane	Concentration_-Cal_14	A	Molar content of n-nonane (after normalization) from the last calibration gas analysis	9528	Float	R	mol%
8.1.16	Oxygen	Concentration_-Cal_15	A	Molar content of oxygen (after normalization) from the last calibration gas analysis	9530	Float	R	mol%
8.1.17	Helium	Concentration_-Cal_16	A	Molar content of helium (after normalization) from the last calibration gas analysis	9532	Float	R	mol%
8.1.18	Hydrogen	Concentration_-Cal_17	A	Molar content of hydrogen (after normalization) from the last calibration gas analysis	9534	Float	R	mol%
8.1.19	Argon	Concentration_-Cal_18	A	Molar content of argon (after normalization) from the last calibration gas analysis	9536	Float	R	mol%
8.1.20	Methanol	Concentration_-Cal_19	A	Molar content of methanol (after normalization) from the last calibration gas analysis	9538	Float	R	mol%
8.1.21	Hydrogensulfid	Concentration_-Cal_20	A	Molar content of hydrogensulfid (after normalization) from the last calibration gas analysis	21690	Float	R	mol%
8.2.0	Areas	HEAD_8_2	A	-	1070	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.2.1	Nitrogen	Area_Cal_0	A	Peak area for nitrogen in the chromatogram from the last calibration gas analysis	9550	Float	R	
8.2.2	Methane	Area_Cal_1	A	Peak area for methane in the chromatogram from the last calibration gas analysis	9552	Float	R	
8.2.3	Carbon Dioxide	Area_Cal_2	A	Peak area for carbon dioxide in the chromatogram from the last calibration gas analysis	9554	Float	R	
8.2.4	Ethane	Area_Cal_3	A	Peak area for ethane in the chromatogram from the last calibration gas analysis	9556	Float	R	
8.2.5	Propane	Area_Cal_4	A	Peak area for propane in the chromatogram from the last calibration gas analysis	9558	Float	R	
8.2.6	iso-Butane	Area_Cal_5	A	Peak area for i-butane in the chromatogram from the last calibration gas analysis	9560	Float	R	
8.2.7	n-Butane	Area_Cal_6	A	Peak area for n-butane in the chromatogram from the last calibration gas analysis	9562	Float	R	
8.2.8	neo-Pentane	Area_Cal_7	A	Peak area for neopentane in the chromatogram from the last calibration gas analysis	9564	Float	R	
8.2.9	iso-Pentane	Area_Cal_8	A	Peak area for i-pentane in the chromatogram from the last calibration gas analysis	9566	Float	R	
8.2.10	n-Pentane	Area_Cal_9	A	Peak area for n-pentane in the chromatogram from the last calibration gas analysis	9568	Float	R	
8.2.11	C6+	Area_Cal_10	A	Peak area for C6+ in the chromatogram from the last calibration gas analysis	9570	Float	R	
8.2.12	n-Hexane	Area_Cal_11	A	Peak area for n-hexane in the chromatogram from the last calibration gas analysis	9572	Float	R	
8.2.13	n-Heptane	Area_Cal_12	A	Peak area for n-heptane in the chromatogram from the last calibration gas analysis	9574	Float	R	
8.2.14	n-Octane	Area_Cal_13	A	Peak area for n-octane in the chromatogram from the last calibration gas analysis	9576	Float	R	
8.2.15	n-Nonane	Area_Cal_14	A	Peak area for n-nonane in the chromatogram from the last calibration gas analysis	9578	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.2.16	Oxygen	Area_Cal_15	A	Peak area for oxygen in the chromatogram from the last calibration gas analysis	9580	Float	R	
8.2.17	Helium	Area_Cal_16	A	Peak area for helium in the chromatogram from the last calibration gas analysis	9582	Float	R	
8.2.18	Hydrogen	Area_Cal_17	A	Peak area for hydrogen in the chromatogram from the last calibration gas analysis	9584	Float	R	
8.2.19	Argon	Area_Cal_18	A	Peak area for argon in the chromatogram from the last calibration gas analysis	9586	Float	R	
8.2.20	Methanol	Area_Cal_19	A	Peak area for methanol in the chromatogram from the last calibration gas analysis	9588	Float	R	
8.2.21	Hydrogensulfid	Area_Cal_20	A	Peak area for hydrogensulfid in the chromatogram from the last calibration gas analysis	21692	Float	R	
8.3.0	Times	HEAD_8_3	A	-	1071	Titel	R	
8.3.1	ST Nitrogen	StartTime_Cal_0	A	Peak start time for nitrogen (lower limit of integration) from the last calibration gas analysis	9600	Float	R	s
8.3.2	RT Nitrogen	RT_Cal_0	A	Retention time (cycle time through the column) for nitrogen from the last calibration gas analysis	9650	Float	R	s
8.3.3	ET Nitrogen	EndTime_Cal_0	A	Peak end time for nitrogen (upper limit of integration) from the last calibration gas analysis	9700	Float	R	s
8.3.4	ST Methane	StartTime_Cal_1	A	Peak start time for methane (lower limit of integration) from the last calibration gas analysis	9602	Float	R	s
8.3.5	RT Methane	RT_Cal_1	A	Retention time (cycle time through the column) for methane from the last calibration gas analysis	9652	Float	R	s
8.3.6	ET Methane	EndTime_Cal_1	A	Peak end time for methane (upper limit of integration) from the last calibration gas analysis	9702	Float	R	s
8.3.7	ST Carbon Dioxide	StartTime_Cal_2	A	Peak start time for carbon dioxide (lower limit of integration) from the last calibration gas analysis	9604	Float	R	s
8.3.8	RT Carbon Dioxide	RT_Cal_2	A	Retention time (cycle time through the column) for carbon dioxide from the last calibration gas analysis	9654	Float	R	s
8.3.9	ET Carbon Dioxide	EndTime_Cal_2	A	Peak end time for carbon dioxide (upper limit of integration) from the last calibration gas analysis	9704	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.3.10	ST Ethane	StartTime_Cal_3	A	Peak start time for ethane (lower limit of integration) from the last calibration gas analysis	9606	Float	R	s
8.3.11	RT Ethane	RT_Cal_3	A	Retention time (cycle time through the column) for ethane from the last calibration gas analysis	9656	Float	R	s
8.3.12	ET Ethane	EndTime_Cal_3	A	Peak end time for ethane (upper limit of integration) from the last calibration gas analysis	9706	Float	R	s
8.3.13	ST Propane	StartTime_Cal_4	A	Peak start time for propane (lower limit of integration) from the last calibration gas analysis	9608	Float	R	s
8.3.14	RT Propane	RT_Cal_4	A	Retention time (cycle time through the column) for propane from the last calibration gas analysis	9658	Float	R	s
8.3.15	ET Propane	EndTime_Cal_4	A	Peak end time for propane (upper limit of integration) from the last calibration gas analysis	9708	Float	R	s
8.3.16	ST iso-Butane	StartTime_Cal_5	A	Peak start time for i-butane (lower limit of integration) from the last calibration gas analysis	9610	Float	R	s
8.3.17	RT iso-Butane	RT_Cal_5	A	Retention time (cycle time through the column) for i-butane from the last calibration gas analysis	9660	Float	R	s
8.3.18	ET iso-Butane	EndTime_Cal_5	A	Peak end time for i-butane (upper limit of integration) from the last calibration gas analysis	9710	Float	R	s
8.3.19	ST n-Butane	StartTime_Cal_6	A	Peak start time for n-butane (lower limit of integration) from the last calibration gas analysis	9612	Float	R	s
8.3.20	RT n-Butane	RT_Cal_6	A	Retention time (cycle time through the column) for n-butane from the last calibration gas analysis	9662	Float	R	s
8.3.21	ET n-Butane	EndTime_Cal_6	A	Peak end time for n-butane (upper limit of integration) from the last calibration gas analysis	9712	Float	R	s
8.3.22	ST neo-Pentane	StartTime_Cal_7	A	Peak start time for neopentane (lower limit of integration) from the last calibration gas analysis	9614	Float	R	s
8.3.23	RT neo-Pentane	RT_Cal_7	A	Retention time (cycle time through the column) for neopentane from the last calibration gas analysis	9664	Float	R	s
8.3.24	ET neo-Pentane	EndTime_Cal_7	A	Peak end time for neopentane (upper limit of integration) from the last calibration gas analysis	9714	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.3.25	ST iso-Pentane	StartTime_Cal_8	A	Peak start time for i-pentane (lower limit of integration) from the last calibration gas analysis	9616	Float	R	s
8.3.26	RT iso-Pentane	RT_Cal_8	A	Retention time (cycle time through the column) for i-pentane from the last calibration gas analysis	9666	Float	R	s
8.3.27	ET iso-Pentane	EndTime_Cal_8	A	Peak end time for i-pentane (upper limit of integration) from the last calibration gas analysis	9716	Float	R	s
8.3.28	ST n-Pentane	StartTime_Cal_9	A	Peak start time for n-pentane (lower limit of integration) from the last calibration gas analysis	9618	Float	R	s
8.3.29	RT n-Pentane	RT_Cal_9	A	Retention time (cycle time through the column) for n-pentane from the last calibration gas analysis	9668	Float	R	s
8.3.30	ET n-Pentane	EndTime_Cal_9	A	Peak end time for n-pentane (upper limit of integration) from the last calibration gas analysis	9718	Float	R	s
8.3.31	ST C6+	StartTime_Cal_10	A	Peak start time for C6+ (lower limit of integration) from the last calibration gas analysis	9620	Float	R	s
8.3.32	RT C6+	RT_Cal_10	A	Retention time (cycle time through the column) for C6+ from the last calibration gas analysis	9670	Float	R	s
8.3.33	ET C6+	EndTime_Cal_10	A	Peak end time for C6+ (upper limit of integration) from the last calibration gas analysis	9720	Float	R	s
8.3.34	ST n-Hexane	StartTime_Cal_11	A	Peak start time for n-hexane (lower limit of integration) from the last calibration gas analysis	9622	Float	R	s
8.3.35	RT n-Hexane	RT_Cal_11	A	Retention time (cycle time through the column) for n-hexane from the last calibration gas analysis	9672	Float	R	s
8.3.36	ET n-Hexane	EndTime_Cal_11	A	Peak end time for n-hexane (upper limit of integration) from the last calibration gas analysis	9722	Float	R	s
8.3.37	ST n-Heptane	StartTime_Cal_12	A	Peak start time for n-heptane (lower limit of integration) from the last calibration gas analysis	9624	Float	R	s
8.3.38	RT n-Heptane	RT_Cal_12	A	Retention time (cycle time through the column) for n-heptane from the last calibration gas analysis	9674	Float	R	s
8.3.39	ET n-Heptane	EndTime_Cal_12	A	Peak end time for n-heptane (upper limit of integration) from the last calibration gas analysis	9724	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.3.40	ST n-Octane	StartTime_Cal_13	A	Peak start time for n-octane (lower limit of integration) from the last calibration gas analysis	9626	Float	R	s
8.3.41	RT n-Octane	RT_Cal_13	A	Retention time (cycle time through the column) for n-octane from the last calibration gas analysis	9676	Float	R	s
8.3.42	ET n-Octane	EndTime_Cal_13	A	Peak end time for n-octane (upper limit of integration) from the last calibration gas analysis	9726	Float	R	s
8.3.43	ST n-Nonane	StartTime_Cal_14	A	Peak start time for n-nonane (lower limit of integration) from the last calibration gas analysis	9628	Float	R	s
8.3.44	RT n-Nonane	RT_Cal_14	A	Retention time (cycle time through the column) for n-nonane from the last calibration gas analysis	9678	Float	R	s
8.3.45	ET n-Nonane	EndTime_Cal_14	A	Peak end time for n-nonane (upper limit of integration) from the last calibration gas analysis	9728	Float	R	s
8.3.46	ST Oxygen	StartTime_Cal_15	A	Peak start time for oxygen (lower limit of integration) from the last calibration gas analysis	9630	Float	R	s
8.3.47	RT Oxygen	RT_Cal_15	A	Retention time (cycle time through the column) for oxygen from the last calibration gas analysis	9680	Float	R	s
8.3.48	ET Oxygen	EndTime_Cal_15	A	Peak end time for oxygen (upper limit of integration) from the last calibration gas analysis	9730	Float	R	s
8.3.49	ST Helium	StartTime_Cal_16	A	Peak start time for helium (lower limit of integration) from the last calibration gas analysis	9632	Float	R	s
8.3.50	RT Helium	RT_Cal_16	A	Retention time (cycle time through the column) for helium from the last calibration gas analysis	9682	Float	R	s
8.3.51	ET Helium	EndTime_Cal_16	A	Peak end time for helium (upper limit of integration) from the last calibration gas analysis	9732	Float	R	s
8.3.52	ST Hydrogen	StartTime_Cal_17	A	Peak start time for hydrogen (lower limit of integration) from the last calibration gas analysis	9634	Float	R	s
8.3.53	RT Hydrogen	RT_Cal_17	A	Retention time (cycle time through the column) for hydrogen from the last calibration gas analysis	9684	Float	R	s
8.3.54	ET Hydrogen	EndTime_Cal_17	A	Peak end time for hydrogen (upper limit of integration) from the last calibration gas analysis	9734	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
8.3.55	ST Argon	StartTime_Cal_18	A	Peak start time for argon (lower limit of integration) from the last calibration gas analysis	9636	Float	R	s
8.3.56	RT Argon	RT_Cal_18	A	Retention time (cycle time through the column) for argon from the last calibration gas analysis	9686	Float	R	s
8.3.57	ET Argon	EndTime_Cal_18	A	Peak end time for argon (upper limit of integration) from the last calibration gas analysis	9736	Float	R	s
8.3.58	ST Methanol	StartTime_Cal_19	A	Peak start time for methanol (lower limit of integration) from the last calibration gas analysis	9638	Float	R	s
8.3.59	RT Methanol	RT_Cal_19	A	Retention time (cycle time through the column) for methanol from the last calibration gas analysis	9688	Float	R	s
8.3.60	ET Methanol	EndTime_Cal_19	A	Peak end time for methanol (upper limit of integration) from the last calibration gas analysis	9738	Float	R	s
8.3.61	ST Hydrogensulfid	StartTime_Cal_20	A	Peak start time for hydrogensulfid (lower limit of integration) from the last calibration gas analysis	21694	Float	R	s
8.3.62	RT Hydrogensulfid	RT_Cal_20	A	Retention time (cycle time through the column) for hydrogensulfid from the last calibration gas analysis	21696	Float	R	s
8.3.63	ET Hydrogensulfid	EndTime_Cal_20	A	Peak end time for hydrogensulfid (upper limit of integration) from the last calibration gas analysis	21698	Float	R	s
9.0.0	Calibration results	HEAD_09	A	-	1072	Titel	R	
9.0.1	Calibration state	CalState	A	Status of the last calibration (Failed/Successful)	1073	Menü	R	
9.0.2	last basic calibration	BCalTime	P	Time of the last, successful basic calibration	3358	Unix-time	R	
9.1.0	RFZ	HEAD_09_1	A	-	1074	Titel	R	
9.1.1	Nitrogen	RFZ_0	P	Response factor (RFZ) for nitrogen from the last basic calibration	9750	Float	R	
9.1.2	Methane	RFZ_1	P	Response factor (RFZ) for methane from the last basic calibration	9752	Float	R	
9.1.3	Carbon Dioxide	RFZ_2	P	Response factor (RFZ) for carbon dioxide from the last basic calibration	9754	Float	R	
9.1.4	Ethane	RFZ_3	P	Response factor (RFZ) for ethane from the last basic calibration	9756	Float	R	
9.1.5	Propane	RFZ_4	P	Response factor (RFZ) for propane from the last basic calibration	9758	Float	R	
9.1.6	iso-Butane	RFZ_5	P	Response factor (RFZ) for i-butane from the last basic calibration	9760	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.1.7	n-Butane	RFZ_6	P	Response factor (RFZ) for n-butane from the last basic calibration	9762	Float	R	
9.1.8	neo-Pentane	RFZ_7	P	Response factor (RFZ) for neopentane from the last basic calibration	9764	Float	R	
9.1.9	iso-Pentane	RFZ_8	P	Response factor (RFZ) for i-pentane from the last basic calibration	9766	Float	R	
9.1.10	n-Pentane	RFZ_9	P	Response factor (RFZ) for n-pentane from the last basic calibration	9768	Float	R	
9.1.11	C6+	RFZ_10	P	Response factor (RFZ) for C6+ from the last basic calibration	9770	Float	R	
9.1.12	n-Hexane	RFZ_11	P	Response factor (RFZ) for n-hexane from the last basic calibration	9772	Float	R	
9.1.13	n-Heptane	RFZ_12	P	Response factor (RFZ) for n-heptane from the last basic calibration	9774	Float	R	
9.1.14	n-Octane	RFZ_13	P	Response factor (RFZ) for n-octane from the last basic calibration	9776	Float	R	
9.1.15	n-Nonane	RFZ_14	P	Response factor (RFZ) for n-nonane from the last basic calibration	9778	Float	R	
9.1.16	Oxygen	RFZ_15	P	Response factor (RFZ) for oxygen from the last basic calibration	9780	Float	R	
9.1.17	Helium	RFZ_16	P	Response factor (RFZ) for helium from the last basic calibration	9782	Float	R	
9.1.18	Hydrogen	RFZ_17	P	Response factor (RFZ) for hydrogen from the last basic calibration	9784	Float	R	
9.1.19	Argon	RFZ_18	P	Response factor (RFZ) for argon from the last basic calibration	9786	Float	R	
9.1.20	Methanol	RFZ_19	P	Response factor (RFZ) for methanol from the last basic calibration	9788	Float	R	
9.1.21	Hydrogensulfid	RFZ_20	P	Response factor (RFZ) for hydrogensulfid from the last basic calibration	21700	Float	R	
9.2.0	RF	HEAD_09_2	A	-	1075	Titel	R	
9.2.1	Nitrogen	RF_0	P	Response factor (RF) for nitrogen from the last automatic or manual calibration	9800	Float	R	
9.2.2	Methane	RF_1	P	Response factor (RF) for methane from the last automatic or manual calibration	9802	Float	R	
9.2.3	Carbon Dioxide	RF_2	P	Response factor (RF) for carbon dioxide from the last automatic or manual calibration	9804	Float	R	
9.2.4	Ethane	RF_3	P	Response factor (RF) for ethane from the last automatic or manual calibration	9806	Float	R	
9.2.5	Propane	RF_4	P	Response factor (RF) for propane from the last automatic or manual calibration	9808	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.2.6	iso-Butane	RF_5	P	Response factor (RF) for i-butane from the last automatic or manual calibration	9810	Float	R	
9.2.7	n-Butane	RF_6	P	Response factor (RF) for n-butane from the last automatic or manual calibration	9812	Float	R	
9.2.8	neo-Pentane	RF_7	P	Response factor (RF) for neopentane from the last automatic or manual calibration	9814	Float	R	
9.2.9	iso-Pentane	RF_8	P	Response factor (RF) for i-pentane from the last automatic or manual calibration	9816	Float	R	
9.2.10	n-Pentane	RF_9	P	Response factor (RF) for n-pentane from the last automatic or manual calibration	9818	Float	R	
9.2.11	C6+	RF_10	P	Response factor (RF) for C6+ from the last automatic or manual calibration	9820	Float	R	
9.2.12	n-Hexane	RF_11	P	Response factor (RF) for n-hexane from the last automatic or manual calibration	9822	Float	R	
9.2.13	n-Heptane	RF_12	P	Response factor (RF) for n-heptane from the last automatic or manual calibration	9824	Float	R	
9.2.14	n-Octane	RF_13	P	Response factor (RF) for n-octane from the last automatic or manual calibration	9826	Float	R	
9.2.15	n-Nonane	RF_14	P	Response factor (RF) for n-nonane from the last automatic or manual calibration	9828	Float	R	
9.2.16	Oxygen	RF_15	P	Response factor (RF) for oxygen from the last automatic or manual calibration	9830	Float	R	
9.2.17	Helium	RF_16	P	Response factor (RF) for helium from the last automatic or manual calibration	9832	Float	R	
9.2.18	Hydrogen	RF_17	P	Response factor (RF) for hydrogen from the last automatic or manual calibration	9834	Float	R	
9.2.19	Argon	RF_18	P	Response factor (RF) for argon from the last automatic or manual calibration	9836	Float	R	
9.2.20	Methanol	RF_19	P	Response factor (RF) for methanol from the last automatic or manual calibration	9838	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.2.21	Hydrogensulfid	RF_20	P	Response factor (RF) for hydrogensulfid from the last automatic or manual calibration	21702	Float	R	
9.3.0	Delta RF	HEAD_09_3	A	-	2018	Titel	R	
9.3.1	Nitrogen	DELTA_RF_0	P	Difference between RFZ and RF for nitrogen	11140	Float	R	%
9.3.2	Methane	DELTA_RF_1	P	Difference between RFZ and RF for methane	11142	Float	R	%
9.3.3	Carbon Dioxide	DELTA_RF_2	P	Difference between RFZ and RF for carbon dioxide	11144	Float	R	%
9.3.4	Ethane	DELTA_RF_3	P	Difference between RFZ and RF for ethane	11146	Float	R	%
9.3.5	Propane	DELTA_RF_4	P	Difference between RFZ and RF for propane	11148	Float	R	%
9.3.6	iso-Butane	DELTA_RF_5	P	Difference between RFZ and RF for i-butane	11150	Float	R	%
9.3.7	n-Butane	DELTA_RF_6	P	Difference between RFZ and RF for n-butane	11152	Float	R	%
9.3.8	neo-Pentane	DELTA_RF_7	P	Difference between RFZ and RF for neopentane	11154	Float	R	%
9.3.9	iso-Pentane	DELTA_RF_8	P	Difference between RFZ and RF for i-pentane	11156	Float	R	%
9.3.10	n-Pentane	DELTA_RF_9	P	Difference between RFZ and RF for n-pentane	11158	Float	R	%
9.3.11	C6+	DELTA_RF_10	P	Difference between RFZ and RF for C6+	11160	Float	R	%
9.3.12	n-Hexane	DELTA_RF_11	P	Difference between RFZ and RF for n-hexane	11162	Float	R	%
9.3.13	n-Heptane	DELTA_RF_12	P	Difference between RFZ and RF for n-heptane	11164	Float	R	%
9.3.14	n-Octane	DELTA_RF_13	P	Difference between RFZ and RF for n-octane	11166	Float	R	%
9.3.15	n-Nonane	DELTA_RF_14	P	Difference between RFZ and RF for n-nonane	11168	Float	R	%
9.3.16	Oxygen	DELTA_RF_15	P	Difference between RFZ and RF for oxygen	11170	Float	R	%
9.3.17	Helium	DELTA_RF_16	P	Difference between RFZ and RF for helium	11172	Float	R	%
9.3.18	Hydrogen	DELTA_RF_17	P	Difference between RFZ and RF for hydrogen	11174	Float	R	%
9.3.19	Argon	DELTA_RF_18	P	Difference between RFZ and RF for argon	11176	Float	R	%
9.3.20	Methanol	DELTA_RF_19	P	Difference between RFZ and RF for methanol	11178	Float	R	%
9.3.21	Hydrogensulfid	DELTA_RF_20	P	Difference between RFZ and RF for hydrogensulfid	21704	Float	R	%
9.4.0	Original RT	HEAD_09_4	A	-	2058	Titel	R	
9.4.1	Nitrogen	OrigRT_0	P	Original RT	21328	Float	R	s
9.4.2	Methane	OrigRT_1	P	Original RT	21330	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.4.3	Carbon Dioxide	OrigRT_2	P	Original RT	21332	Float	R	s
9.4.4	Ethane	OrigRT_3	P	Original RT	21334	Float	R	s
9.4.5	Propane	OrigRT_4	P	Original RT	21336	Float	R	s
9.4.6	iso-Butane	OrigRT_5	P	Original RT	21338	Float	R	s
9.4.7	n-Butane	OrigRT_6	P	Original RT	21340	Float	R	s
9.4.8	neo-Pentane	OrigRT_7	P	Original RT	21342	Float	R	s
9.4.9	iso-Pentane	OrigRT_8	P	Original RT	21344	Float	R	s
9.4.10	n-Pentane	OrigRT_9	P	Original RT	21346	Float	R	s
9.4.11	C6+	OrigRT_10	P	Original RT	21348	Float	R	s
9.4.12	n-Hexane	OrigRT_11	P	Original RT	21350	Float	R	s
9.4.13	n-Heptane	OrigRT_12	P	Original RT	21352	Float	R	s
9.4.14	n-Octane	OrigRT_13	P	Original RT	21354	Float	R	s
9.4.15	n-Nonane	OrigRT_14	P	Original RT	21356	Float	R	s
9.4.16	Oxygen	OrigRT_15	P	Original RT	21358	Float	R	s
9.4.17	Helium	OrigRT_16	P	Original RT	21360	Float	R	s
9.4.18	Hydrogen	OrigRT_17	P	Original RT	21362	Float	R	s
9.4.19	Argon	OrigRT_18	P	Original RT	21364	Float	R	s
9.4.20	Methanol	OrigRT_19	P	Original RT	21366	Float	R	s
9.4.21	Hydrogensulfid	OrigRT_20	P	Original RT	21706	Float	R	s
9.5.0	RTZ	HEAD_09_5	A	-	1076	Titel	R	
9.5.1	Nitrogen	RTZ_0	P	Retention time (RTZ) for nitrogen from the last basic calibration	9850	Float	R	s
9.5.2	Methane	RTZ_1	P	Retention time (RTZ) for methane from the last basic calibration	9852	Float	R	s
9.5.3	Carbon Dioxide	RTZ_2	P	Retention time (RTZ) for carbon dioxide from the last basic calibration	9854	Float	R	s
9.5.4	Ethane	RTZ_3	P	Retention time (RTZ) for ethane from the last basic calibration	9856	Float	R	s
9.5.5	Propane	RTZ_4	P	Retention time (RTZ) for propane from the last basic calibration	9858	Float	R	s
9.5.6	iso-Butane	RTZ_5	P	Retention time (RTZ) for i-butane from the last basic calibration	9860	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.5.7	n-Butane	RTZ_6	P	Retention time (RTZ) for n-butane from the last basic calibration	9862	Float	R	s
9.5.8	neo-Pentane	RTZ_7	P	Retention time (RTZ) for neopentane from the last basic calibration	9864	Float	R	s
9.5.9	iso-Pentane	RTZ_8	P	Retention time (RTZ) for i-pentane from the last basic calibration	9866	Float	R	s
9.5.10	n-Pentane	RTZ_9	P	Retention time (RTZ) for n-pentane from the last basic calibration	9868	Float	R	s
9.5.11	C6+	RTZ_10	P	Retention time (RTZ) for C6+ from the last basic calibration	9870	Float	R	s
9.5.12	n-Hexane	RTZ_11	P	Retention time (RTZ) for n-hexane from the last basic calibration	9872	Float	R	s
9.5.13	n-Heptane	RTZ_12	P	Retention time (RTZ) for n-heptane from the last basic calibration	9874	Float	R	s
9.5.14	n-Octane	RTZ_13	P	Retention time (RTZ) for n-octane from the last basic calibration	9876	Float	R	s
9.5.15	n-Nonane	RTZ_14	P	Retention time (RTZ) for n-nonane from the last basic calibration	9878	Float	R	s
9.5.16	Oxygen	RTZ_15	P	Retention time (RTZ) for oxygen from the last basic calibration	9880	Float	R	s
9.5.17	Helium	RTZ_16	P	Retention time (RTZ) for helium from the last basic calibration	9882	Float	R	s
9.5.18	Hydrogen	RTZ_17	P	Retention time (RTZ) for hydrogen from the last basic calibration	9884	Float	R	s
9.5.19	Argon	RTZ_18	P	Retention time (RTZ) for argon from the last basic calibration	9886	Float	R	s
9.5.20	Methanol	RTZ_19	P	Retention time (RTZ) for methanol from the last basic calibration	9888	Float	R	s
9.5.21	Hydrogensulfid	RTZ_20	P	Retention time (RTZ) for hydrogensulfid from the last basic calibration	21708	Float	R	s
9.6.0	RT	HEAD_09_6	A	-	1872	Titel	R	
9.6.1	Nitrogen	RT_0	P	Retention time (RT) for nitrogen from the last automatic or manual calibration	11060	Float	R	s
9.6.2	Methane	RT_1	P	Retention time (RT) for methane from the last automatic or manual calibration	11062	Float	R	s
9.6.3	Carbon Dioxide	RT_2	P	Retention time (RT) for carbon dioxide from the last automatic or manual calibration	11064	Float	R	s
9.6.4	Ethane	RT_3	P	Retention time (RT) for ethane from the last automatic or manual calibration	11066	Float	R	s
9.6.5	Propane	RT_4	P	Retention time (RT) for propane from the last automatic or manual calibration	11068	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.6.6	iso-Butane	RT_5	P	Retention time (RT) for i-butane from the last automatic or manual calibration	11070	Float	R	s
9.6.7	n-Butane	RT_6	P	Retention time (RT) for n-butane from the last automatic or manual calibration	11072	Float	R	s
9.6.8	neo-Pentane	RT_7	P	Retention time (RT) for neopentane from the last automatic or manual calibration	11074	Float	R	s
9.6.9	iso-Pentane	RT_8	P	Retention time (RT) for i-pentane from the last automatic or manual calibration	11076	Float	R	s
9.6.10	n-Pentane	RT_9	P	Retention time (RT) for n-pentane from the last automatic or manual calibration	11078	Float	R	s
9.6.11	C6+	RT_10	P	Retention time (RT) for C6+ from the last automatic or manual calibration	11080	Float	R	s
9.6.12	n-Hexane	RT_11	P	Retention time (RT) for n-hexane from the last automatic or manual calibration	11082	Float	R	s
9.6.13	n-Heptane	RT_12	P	Retention time (RT) for n-heptane from the last automatic or manual calibration	11084	Float	R	s
9.6.14	n-Octane	RT_13	P	Retention time (RT) for n-octane from the last automatic or manual calibration	11086	Float	R	s
9.6.15	n-Nonane	RT_14	P	Retention time (RT) for n-nonane from the last automatic or manual calibration	11088	Float	R	s
9.6.16	Oxygen	RT_15	P	Retention time (RT) for oxygen from the last automatic or manual calibration	11090	Float	R	s
9.6.17	Helium	RT_16	P	Retention time (RT) for helium from the last automatic or manual calibration	11092	Float	R	s
9.6.18	Hydrogen	RT_17	P	Retention time (RT) for hydrogen from the last automatic or manual calibration	11094	Float	R	s
9.6.19	Argon	RT_18	P	Retention time (RT) for argon from the last automatic or manual calibration	11096	Float	R	s
9.6.20	Methanol	RT_19	P	Retention time (RT) for methanol from the last automatic or manual calibration	11098	Float	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.6.21	Hydrogensulfid	RT_20	P	Retention time (RT) for hydrogensulfid from the last automatic or manual calibration	21710	Float	R	s
9.7.0	Delta RT to RTZ	HEAD_09_7	A	-	2020	Titel	R	
9.7.1	Nitrogen	DELTA_RT_0	P	Difference between RTZ and RT for nitrogen	11100	Float	R	%
9.7.2	Methane	DELTA_RT_1	P	Difference between RTZ and RT for methane	11102	Float	R	%
9.7.3	Carbon Dioxide	DELTA_RT_2	P	Difference between RTZ and RT for carbon dioxide	11104	Float	R	%
9.7.4	Ethane	DELTA_RT_3	P	Difference between RTZ and RT for ethane	11106	Float	R	%
9.7.5	Propane	DELTA_RT_4	P	Difference between RTZ and RT for propane	11108	Float	R	%
9.7.6	iso-Butane	DELTA_RT_5	P	Difference between RTZ and RT for i-butane	11110	Float	R	%
9.7.7	n-Butane	DELTA_RT_6	P	Difference between RTZ and RT for n-butane	11112	Float	R	%
9.7.8	neo-Pentane	DELTA_RT_7	P	Difference between RTZ and RT for neopentane	11114	Float	R	%
9.7.9	iso-Pentane	DELTA_RT_8	P	Difference between RTZ and RT for i-pentane	11116	Float	R	%
9.7.10	n-Pentane	DELTA_RT_9	P	Difference between RTZ and RT for n-pentane	11118	Float	R	%
9.7.11	C6+	DELTA_RT_10	P	Difference between RTZ and RT for C6+	11120	Float	R	%
9.7.12	n-Hexane	DELTA_RT_11	P	Difference between RTZ and RT for n-hexane	11122	Float	R	%
9.7.13	n-Heptane	DELTA_RT_12	P	Difference between RTZ and RT for n-heptane	11124	Float	R	%
9.7.14	n-Octane	DELTA_RT_13	P	Difference between RTZ and RT for n-octane	11126	Float	R	%
9.7.15	n-Nonane	DELTA_RT_14	P	Difference between RTZ and RT for n-nonane	11128	Float	R	%
9.7.16	Oxygen	DELTA_RT_15	P	Difference between RTZ and RT for oxygen	11130	Float	R	%
9.7.17	Helium	DELTA_RT_16	P	Difference between RTZ and RT for helium	11132	Float	R	%
9.7.18	Hydrogen	DELTA_RT_17	P	Difference between RTZ and RT for hydrogen	11134	Float	R	%
9.7.19	Argon	DELTA_RT_18	P	Difference between RTZ and RT for argon	11136	Float	R	%
9.7.20	Methanol	DELTA_RT_19	P	Difference between RTZ and RT for methanol	11138	Float	R	%
9.7.21	Hydrogensulfid	DELTA_RT_20	P	Difference between RTZ and RT for hydrogensulfid	21712	Float	R	%
9.8.0	Delta RT to orig. RT	HEAD_09_8	A	-	2059	Titel	R	
9.8.1	Nitrogen	DELTA_OrigRT_0	P	Difference between original RT and RT for nitrogen	21368	Float	R	%
9.8.2	Methane	DELTA_OrigRT_1	P	Difference between original RT and RT for methane	21370	Float	R	%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.8.3	Carbon Dioxide	DELTA_OrigRT_2	P	Difference between original RT and RT for carbon dioxide	21372	Float	R	%
9.8.4	Ethane	DELTA_OrigRT_3	P	Difference between original RT and RT for ethane	21374	Float	R	%
9.8.5	Propane	DELTA_OrigRT_4	P	Difference between original RT and RT for propane	21376	Float	R	%
9.8.6	iso-Butane	DELTA_OrigRT_5	P	Difference between original RT and RT for i-butane	21378	Float	R	%
9.8.7	n-Butane	DELTA_OrigRT_6	P	Difference between original RT and RT for n-butane	21380	Float	R	%
9.8.8	neo-Pentane	DELTA_OrigRT_7	P	Difference between original RT and RT for neopentane	21382	Float	R	%
9.8.9	iso-Pentane	DELTA_OrigRT_8	P	Difference between original RT and RT for i-pentane	21384	Float	R	%
9.8.10	n-Pentane	DELTA_OrigRT_9	P	Difference between original RT and RT for n-pentane	21386	Float	R	%
9.8.11	C6+	DELTA_OrigRT_10	P	Difference between original RT and RT for C6+	21388	Float	R	%
9.8.12	n-Hexane	DELTA_OrigRT_11	P	Difference between original RT and RT for n-hexane	21390	Float	R	%
9.8.13	n-Heptane	DELTA_OrigRT_12	P	Difference between original RT and RT for n-heptane	21392	Float	R	%
9.8.14	n-Octane	DELTA_OrigRT_13	P	Difference between original RT and RT for n-octane	21394	Float	R	%
9.8.15	n-Nonane	DELTA_OrigRT_14	P	Difference between original RT and RT for n-nonane	21396	Float	R	%
9.8.16	Oxygen	DELTA_OrigRT_15	P	Difference between original RT and RT for oxygen	21398	Float	R	%
9.8.17	Helium	DELTA_OrigRT_16	P	Difference between original RT and RT for helium	21400	Float	R	%
9.8.18	Hydrogen	DELTA_OrigRT_17	P	Difference between original RT and RT for hydrogen	21402	Float	R	%
9.8.19	Argon	DELTA_OrigRT_18	P	Difference between original RT and RT for argon	21404	Float	R	%
9.8.20	Methanol	DELTA_OrigRT_19	P	Difference between original RT and RT for methanol	21406	Float	R	%
9.8.21	Hydrogensulfid	DELTA_OrigRT_20	P	Difference between original RT and RT for hydrogensulfid	21714	Float	R	%
9.9.0	Area sum	HEAD_09_9	A	-	1077	Titel	R	
9.9.1	BCAL: area sum	BCalSumArea	P	Total areas of the last basic calibration	3002	Long	R	
9.9.2	CAL: area sum	CalSumArea	P	Sum of all peak areas in the last automatic or manual calibration	3004	Long	R	
9.9.3	Sum deviation	CalSumDeviation	A	Percentage deviation of the area totals from the basic calibration and automatic (or manual) calibration.	7138	Float	R	%
9.10.0	Deviations	HEAD_09_10	A	-	1559	Titel	R	
9.10.1	delta rho cal	RhonCalDelta	A	Deviation of the standard density from the last calibration from the set value.	10814	Float	R	%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
9.10.2	delta Hs cal	HoCalDelta	A	Deviation of the superior calorific value from the last calibration from the set value.	10816	Float	R	%
9.10.3	delta CO2 cal	Co2CalDelta	A	Deviation of the CO2 content from the last calibration from the set value.	10818	Float	R	mol%
10.0.0	Specialities	HEAD_10	A	-	1078	Titel	R	
10.1.0	Dew point pressure	HEAD_10_1	A	-	1079	Titel	R	
10.1.1	Value	SInput_0	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10510	Float	R	
10.1.2	Unit	SInputUnit_0	B	Unit of measured value 1	30600	Text	W	
10.1.3	Start value	SInputMin_0	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10522	Float	W	
10.1.4	End value	SInputMax_0	B	Physical end value This value corresponds to the 20 mA measured value.	10534	Float	W	
10.1.5	Set value	SInputSetVal_0	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10546	Float	W	
10.1.6	Mode	SInputMode_0	B	Operating mode of the selected current input.	1537	Menü	W	
10.1.7	Source	SInputSource_0	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1538	Menü	W	
10.1.8	upper limit	SInputWarnMax_0	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10558	Float	W	
10.1.9	Selected Output	SInputWarnContact_0	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit value violations can be signaled with a digital contact. The first violation sets the contact.	1539	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.1.10	HV_SInput_0	HV_SInput_0	A	-	10580	Float	R	
10.2.0	Dew point temp.	HEAD_10_2	A	-	1532	Titel	R	
10.2.1	Value	SInput_1	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10512	Float	R	
10.2.2	Unit	SInputUnit_1	B	Unit of measured value 2	30620	Text	W	
10.2.3	Start value	SInputMin_1	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10524	Float	W	
10.2.4	End value	SInputMax_1	B	Physical end value This value corresponds to the 20 mA measured value.	10536	Float	W	
10.2.5	Set value	SInputSetVal_1	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10548	Float	W	
10.2.6	Mode	SInputMode_1	B	Operating mode of the selected current input.	1540	Menü	W	
10.2.7	Source	SInputSource_1	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1541	Menü	W	
10.2.8	upper limit	SInputWarnMax_1	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10560	Float	W	
10.2.9	Selected Output	SInputWarnContact_1	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit value violations can be signaled with a digital contact. The first violation sets the contact.	1542	Menü	W	
10.2.10	HV_SInput_1	HV_SInput_1	A	-	10582	Float	R	
10.3.0	COS	HEAD_10_3	A	-	1533	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.3.1	Value	SInput_2	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10514	Float	R	
10.3.2	Unit	SInputUnit_2	B	Unit of measured value 3	30640	Text	W	
10.3.3	Start value	SInputMin_2	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10526	Float	W	
10.3.4	End value	SInputMax_2	B	Physical end value This value corresponds to the 20 mA measured value.	10538	Float	W	
10.3.5	Set value	SInputSetVal_2	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10550	Float	W	
10.3.6	Mode	SInputMode_2	B	Operating mode of the selected current input.	1543	Menü	W	
10.3.7	Source	SInputSource_2	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1544	Menü	W	
10.3.8	upper limit	SInputWarnMax_2	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10562	Float	W	
10.3.9	Selected Output	SInputWarnContact_2	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1545	Menü	W	
10.3.10	HV_SInput_2	HV_SInput_2	A	-	10584	Float	R	
10.4.0	H2S	HEAD_10_4	A	-	1534	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.4.1	Value	SInput_3	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10516	Float	R	
10.4.2	Unit	SInputUnit_3	B	Unit of measured value 4	30660	Text	W	
10.4.3	Start value	SInputMin_3	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10528	Float	W	
10.4.4	End value	SInputMax_3	B	Physical end value This value corresponds to the 20 mA measured value.	10540	Float	W	
10.4.5	Set value	SInputSetVal_3	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10552	Float	W	
10.4.6	Mode	SInputMode_3	B	Operating mode of the selected current input.	1546	Menü	W	
10.4.7	Source	SInputSource_3	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1547	Menü	W	
10.4.8	upper limit	SInputWarnMax_3	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10564	Float	W	
10.4.9	Selected Output	SInputWarnContact_3	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit value violations can be signaled with a digital contact. The first violation sets the contact.	1548	Menü	W	
10.4.10	HV_SInput_3	HV_SInput_3	A	-	10586	Float	R	
10.5.0	Mercaptane	HEAD_10_5	A	-	1535	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.5.1	Value	SInput_4	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10518	Float	R	
10.5.2	Unit	SInputUnit_4	B	Unit of measured value 5	30680	Text	W	
10.5.3	Start value	SInputMin_4	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10530	Float	W	
10.5.4	End value	SInputMax_4	B	Physical end value This value corresponds to the 20 mA measured value.	10542	Float	W	
10.5.5	Set value	SInputSetVal_4	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10554	Float	W	
10.5.6	Mode	SInputMode_4	B	Operating mode of the selected current input.	1549	Menü	W	
10.5.7	Source	SInputSource_4	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1550	Menü	W	
10.5.8	upper limit	SInputWarnMax_4	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10566	Float	W	
10.5.9	Selected Output	SInputWarnContact_4	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit value violations can be signaled with a digital contact. The first violation sets the contact.	1551	Menü	W	
10.5.10	HV_SInput_4	HV_SInput_4	A	-	10588	Float	R	
10.6.0	Hydrocarbon dew point	HEAD_10_6	A	-	1536	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.6.1	Value	SInput_5	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	10520	Float	R	
10.6.2	Unit	SInputUnit_5	B	Unit of measured value 6	30700	Text	W	
10.6.3	Start value	SInputMin_5	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	10532	Float	W	
10.6.4	End value	SInputMax_5	B	Physical end value This value corresponds to the 20 mA measured value.	10544	Float	W	
10.6.5	Set value	SInputSetVal_5	B	If the Upper Limit is exceeded, the measured value is set to this default value.	10556	Float	W	
10.6.6	Mode	SInputMode_5	B	Operating mode of the selected current input.	1552	Menü	W	
10.6.7	Source	SInputSource_5	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1553	Menü	W	
10.6.8	upper limit	SInputWarnMax_5	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	10568	Float	W	
10.6.9	Selected Output	SInputWarnContact_5	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1554	Menü	W	
10.6.10	HV_SInput_5	HV_SInput_5	A	-	10590	Float	R	
10.7.0	Add. monitoring 1	HEAD_10_7	A	-	1846	Titel	R	
10.7.1	Monitored value	MonitoredValue_0	B	Designation for measured value 7	30540	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.7.2	Value	SInput_6	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	11010	Float	R	
10.7.3	Unit	SInputUnit_6	B	Unit of measured value 7	30720	Text	W	
10.7.4	Start value	SInputMin_6	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	11012	Float	W	
10.7.5	End value	SInputMax_6	B	Physical end value This value corresponds to the 20 mA measured value.	11014	Float	W	
10.7.6	Set value	SInputSetVal_6	B	If the Upper Limit is exceeded, the measured value is set to this default value.	11016	Float	W	
10.7.7	Mode	SInputMode_6	B	Operating mode of the selected current input.	1849	Menü	W	
10.7.8	Source	SInputSource_6	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1850	Menü	W	
10.7.9	upper limit	SInputWarnMax_6	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	11018	Float	W	
10.7.10	Selected Output	SInputWarnContact_6	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1851	Menü	W	
10.7.11	HV_SInput_6	HV_SInput_6	A	-	10592	Float	R	
10.8.0	Add. monitoring 2	HEAD_10_8	A	-	1847	Titel	R	
10.8.1	Monitored value	MonitoredValue_1	B	Designation for measured value 8	30560	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.8.2	Value	SInput_7	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	11020	Float	R	
10.8.3	Unit	SInputUnit_7	B	Unit of measured value 8	30740	Text	W	
10.8.4	Start value	SInputMin_7	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	11022	Float	W	
10.8.5	End value	SInputMax_7	B	Physical end value This value corresponds to the 20 mA measured value.	11024	Float	W	
10.8.6	Set value	SInputSetVal_7	B	If the Upper Limit is exceeded, the measured value is set to this default value.	11026	Float	W	
10.8.7	Mode	SInputMode_7	B	Operating mode of the selected current input.	1852	Menü	W	
10.8.8	Source	SInputSource_7	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1853	Menü	W	
10.8.9	upper limit	SInputWarnMax_7	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	11028	Float	W	
10.8.10	Selected Output	SInputWarnContact_7	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1854	Menü	W	
10.8.11	HV_SInput_7	HV_SInput_7	A	-	10594	Float	R	
10.9.0	Add. monitoring 3	HEAD_10_9	A	-	1848	Titel	R	
10.9.1	Monitored value	MonitoredValue_2	B	Designation for measured value 9	30580	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.9.2	Value	SInput_8	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	11030	Float	R	
10.9.3	Unit	SInputUnit_8	B	Unit of measured value 9	30760	Text	W	
10.9.4	Start value	SInputMin_8	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	11032	Float	W	
10.9.5	End value	SInputMax_8	B	Physical end value This value corresponds to the 20 mA measured value.	11034	Float	W	
10.9.6	Set value	SInputSetVal_8	B	If the Upper Limit is exceeded, the measured value is set to this default value.	11036	Float	W	
10.9.7	Mode	SInputMode_8	B	Operating mode of the selected current input.	1855	Menü	W	
10.9.8	Source	SInputSource_8	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1856	Menü	W	
10.9.9	upper limit	SInputWarnMax_8	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	11038	Float	W	
10.9.10	Selected Output	SInputWarnContact_8	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1857	Menü	W	
10.9.11	HV_SInput_8	HV_SInput_8	A	-	10596	Float	R	
10.10.0	Add. monitoring 4	HEAD_10_10	A	-	1864	Titel	R	
10.10.1	Monitored value	MonitoredValue_3	B	Designation for measured value 10	30780	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.10.2	Value	SInput_9	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	11040	Float	R	
10.10.3	Unit	SInputUnit_9	B	Unit of measured value 10	30800	Text	W	
10.10.4	Start value	SInputMin_9	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	11042	Float	W	
10.10.5	End value	SInputMax_9	B	Physical end value This value corresponds to the 20 mA measured value.	11044	Float	W	
10.10.6	Set value	SInputSetVal_9	B	If the Upper Limit is exceeded, the measured value is set to this default value.	11046	Float	W	
10.10.7	Mode	SInputMode_9	B	Operating mode of the selected current input.	1865	Menü	W	
10.10.8	Source	SInputSource_9	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1866	Menü	W	
10.10.9	upper limit	SInputWarnMax_9	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	11048	Float	W	
101010	Selected Output	SInputWarnContact_9	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1867	Menü	W	
101011	HV_SInput_9	HV_SInput_9	A	-	10598	Float	R	
10.11.0	Add. monitoring 5	HEAD_10_11	A	-	1868	Titel	R	
10.11.1	Monitored value	MonitoredValue_4	B	Designation for measured value 11	30820	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.11.2	Value	SInput_10	A	Display of the measured value determined from a selected current input and the parameters for this column. This value is monitored up to an upper limit. Monitoring has the following operating modes: - No monitoring - Generate a warning, value = default value - Set a digital contact, value = default value	11050	Float	R	
10.11.3	Unit	SInputUnit_10	B	Unit of measured value 11	30840	Text	W	
10.11.4	Start value	SInputMin_10	B	Physical start value This value corresponds to 0 or 4 mA depending on the operating mode.	11052	Float	W	
10.11.5	End value	SInputMax_10	B	Physical end value This value corresponds to the 20 mA measured value.	11054	Float	W	
10.11.6	Set value	SInputSetVal_10	B	If the Upper Limit is exceeded, the measured value is set to this default value.	11056	Float	W	
10.11.7	Mode	SInputMode_10	B	Operating mode of the selected current input.	1869	Menü	W	
10.11.8	Source	SInputSource_10	B	Source of the analog signal. Current input-1 through current input-8 Wago current input-1 through Wago current input-16	1870	Menü	W	
10.11.9	upper limit	SInputWarnMax_10	B	Upper limit of the physical value. If the limit is exceeded, a warning is generated, a digital contact is set or it is ignored.	11058	Float	W	
101110	Selected Output	SInputWarnContact_10	B	Selection of signaling contact or warning. Signaling contacts DO9 through DO12 are collective, i.e. multiple limit violations can be signaled with a digital contact. The first violation sets the contact.	1871	Menü	W	
101111	HV_SInput_10	HV_SInput_10	A	-	10600	Float	R	
10.12.0	Sum	HEAD_10_12	A	-	1555	Titel	R	
10.12.1	Sum sulphur	SumSchwefel	A	Total volume of all sulfur compounds (H ₂ S, COS and Mercaptan)	10570	Float	R	
10.12.3	upper warn limit	SumH ₂ SWarnMax	B	Upper limit value of the entire sulfur content for triggering a warning	10572	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.12.4	Warning mode	SumH2SWarn-Mode	B	Total sulfur warning mode on/off (NONE/Generate Warning)	1556	Menü	W	
10.13.0	Fixed components	HEAD_10_13	A	-	1085	Titel	R	
10.13.1	Fixed components	FixedCompMode	E	The 4 components helium, hydrogen, oxygen and argon can be specified as fixed values. This mode can be switched on or off (OFF/ON). The other measured components are then normalized to 100% minus the fixed components. This mode is not permitted in custody transfer operation.	1086	Menü	W	
10.13.2	Helium set value	FixedCompHe	E	Fixed value for helium content	7176	Float	W	mol%
10.13.3	Hydrogen set value	FixedCompH2	E	Fixed value for hydrogen content	7178	Float	W	mol%
10.13.4	Oxygen set value	FixedCompO2	E	Fixed value for oxygen content	7180	Float	W	mol%
10.13.5	Argon set value	FixedCompAr	E	Fixed value for argon content	7182	Float	W	mol%
10.13.6	Methanol set value	FixedCompCH3OH	E	Fixed value for methanol content	21626	Float	W	mol%
10.13.7	Hydrogensulfid set value	FixedCompH2S	E	Fixed value for hydrogensulfids content	21628	Float	W	mol%
10.14.0	DSfG constants	HEAD_10_14	A	-	1560	Titel	R	
10.14.1	Carbon monoxide S1	Concentration_S1_CO	A	Value of the carbon monoxide content in stream 1 required for DSfG standard form. This value is always 0	10820	Float	R	
10.14.2	Carbon monoxide S2	Concentration_S2_CO	A	Value of the carbon monoxide content in stream 2 required for DSfG standard form. This value is always 0	10822	Float	R	
10.14.5	Ethene S1	Concentration_S1_Ethene	A	Value of the ethene content in stream 1 required for DSfG standard form. This value is always 0	10828	Float	R	
10.14.6	Ethene S2	Concentration_S2_Ethene	A	Value of the ethene content in stream 2 required for DSfG standard form. This value is always 0	10830	Float	R	
10.14.9	Propene S1	Concentration_S1_Propene	A	Value of the propene content in stream 1 required for DSfG standard form. This value is always 0	10836	Float	R	
10.14.10	Propene S2	Concentration_S2_Propene	A	Value of the propene content in stream 2 required for DSfG standard form. This value is always 0	10838	Float	R	
10.15.0	RT monitoring	HEAD_10_15	A	-	2224	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.15.1	monitoring	RTDriftMonitoring	B	activate the warning message if the RT*/RTZ factor of nitrogen falls below the set limit. The RT* is calculated by averaging the RTs over the set time window minus the RT average of the previous time window of the same period.	2225	Menü	W	
10.15.2	Startup Delay	RTDriftStartupDelay	B	Number of days to wait after the basic calibration, until a warning message can be set for the first time	2226	Integer	W	days
10.15.3	Period for summation	RTDriftPeriod	B	Number of days over which the retention time is averaged	2227	Integer	W	days
10.15.4	Nitrogen deviation limit	RTDriftNitrogen	B	Warning limit for the deviation of the retention time of nitrogen by e.g. warn against saturation of the molecular sieve column.	11190	Float	W	
10.15.5	current deviation	RTDriftNitrogen-Value	A	Current value of the drift calculation	11192	Float	R	
10.16.0	Gas Quality Manager (GQM)	HEAD_10_16	A	-	2268	Titel	R	
10.16.1	GQM activate	GBHtoGQMenable	E	Switch on/off the interface for the Gas Quality Manager	2269	Menü	W	
10.16.2	GBH ID Stream 1	GBH_ID_0	E	ID of gas quality Source	3400	Long	W	
10.16.3	GBH Preset Stream 1	GBH_Preset_0	E	Start value for CRC12	2270	Integer	W	
10.16.4	GBH Prio Stream 1	GBH_Prio_0	E	Priority of gas quality Source	2272	Integer	W	
10.16.5	GBH Typ Stream 1	GBH_Typ_0	E	Type of gas quality Source	2274	Integer	W	
10.16.6	GBH ID Stream 2	GBH_ID_1	E	ID of gas quality Source	3402	Long	W	
10.16.7	GBH Preset Stream 2	GBH_Preset_1	E	Start value for CRC12	2271	Integer	W	
10.16.8	GBH Prio Stream 2	GBH_Prio_1	E	Priority of gas quality Source	2273	Integer	W	
10.16.9	GBH Typ Stream 2	GBH_Typ_1	E	Type of gas quality Source	2275	Integer	W	
10.16.10	GBH CRC12 Stream 1	GBH_CRC12_0	A	CRC12 of gas quality Source	2276	Integer	R	
10.16.11	GBH CRC12 Stream 2	GBH_CRC12_1	A	CRC12 of gas quality Source	2277	Integer	R	
10.16.12	GBH State Stream 1	GBH_Status_0	A	Status	3416	Long	R	hex
10.16.13	GBH State Stream 2	GBH_Status_1	A	Status	3418	Long	R	hex
10.16.14	order no. stream 1	StreamOnr_0	P	Analysis counter stream 1 for gas quality manager.	3388	Long	R	
10.16.15	order no. stream 2	StreamOnr_1	P	Analysis counter stream 2 for gas quality manager.	3390	Long	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
10.16.16	Reserve 16 Bit	Reserve16_0	A	-	2287	Integer	R	
10.16.17	Reserve 32 Bit	Reserve32_0	A	-	3408	Integer	R	
10.16.18	Reserve float	ReserveFloat_0	A	-	11194	Float	R	
10.16.19	Reserve 16 Bit	Reserve16_1	A	-	2288	Integer	R	
10.16.20	Reserve 32 Bit	Reserve32_1	A	-	3410	Integer	R	
10.16.21	Reserve float	ReserveFloat_1	A	-	11196	Float	R	
11.0.0	Components parameters	HEAD_11	A	-	1089	Titel	R	
11.1.0	Nitrogen	HEAD_11_1	A	-	1090	Titel	R	
11.1.1	MLC Coefficient-A	MultiLevel_A_0	E	Multilevel coefficient A for the corrective polynom of the molar content of nitrogen. The multilevel coefficients are defined in the factory and must not change during operation.	9900	Float	W	
11.1.2	MLC Coefficient-B	MultiLevel_B_0	E	Multilevel coefficient B for the corrective polynom of the molar content of nitrogen. The multilevel coefficients are defined in the factory and must not change during operation.	9902	Float	W	
11.1.3	MLC Coefficient-C	MultiLevel_C_0	E	Multilevel coefficient C for the corrective polynom of the molar content of nitrogen. The multilevel coefficients are defined in the factory and must not change during operation.	9904	Float	W	
11.1.4	MLC Coefficient-D	MultiLevel_D_0	E	Multilevel coefficient D for the corrective polynom of the molar content of nitrogen. The multilevel coefficients are defined in the factory and must not change during operation.	9906	Float	W	
11.2.0	Methane	HEAD_11_2	A	-	1091	Titel	R	
11.2.1	MLC Coefficient-A	MultiLevel_A_1	E	Multilevel coefficient A for the corrective polynom of the molar content of methane. The multilevel coefficients are defined in the factory and must not change during operation.	9920	Float	W	
11.2.2	MLC Coefficient-B	MultiLevel_B_1	E	Multilevel coefficient B for the corrective polynom of the molar content of methane. The multilevel coefficients are defined in the factory and must not change during operation.	9922	Float	W	
11.2.3	MLC Coefficient-C	MultiLevel_C_1	E	Multilevel coefficient C for the corrective polynom of the molar content of methane. The multilevel coefficients are defined in the factory and must not change during operation.	9924	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.2.4	MLC Coefficient-D	MultiLevel_D_1	E	Multilevel coefficient D for the corrective polynom of the molar content of methane. The multilevel coefficients are defined in the factory and must not change during operation.	9926	Float	W	
11.3.0	Carbon Dioxide	HEAD_11_3	A	-	1092	Titel	R	
11.3.1	MLC Coefficient-A	MultiLevel_A_2	E	Multilevel coefficient A for the corrective polynom of the molar content of carbon dioxide. The multilevel coefficients are defined in the factory and must not change during operation.	9940	Float	W	
11.3.2	MLC Coefficient-B	MultiLevel_B_2	E	Multilevel coefficient B for the corrective polynom of the molar content of carbon dioxide. The multilevel coefficients are defined in the factory and must not change during operation.	9942	Float	W	
11.3.3	MLC Coefficient-C	MultiLevel_C_2	E	Multilevel coefficient C for the corrective polynom of the molar content of carbon dioxide. The multilevel coefficients are defined in the factory and must not change during operation.	9944	Float	W	
11.3.4	MLC Coefficient-D	MultiLevel_D_2	E	Multilevel coefficient D for the corrective polynom of the molar content of carbon dioxide. The multilevel coefficients are defined in the factory and must not change during operation.	9946	Float	W	
11.4.0	Ethane	HEAD_11_4	A	-	1093	Titel	R	
11.4.1	MLC Coefficient-A	MultiLevel_A_3	E	Multilevel coefficient A for the corrective polynom of the molar content of ethane. The multilevel coefficients are defined in the factory and must not change during operation.	9960	Float	W	
11.4.2	MLC Coefficient-B	MultiLevel_B_3	E	Multilevel coefficient B for the corrective polynom of the molar content of ethane. The multilevel coefficients are defined in the factory and must not change during operation.	9962	Float	W	
11.4.3	MLC Coefficient-C	MultiLevel_C_3	E	Multilevel coefficient C for the corrective polynom of the molar content of ethane. The multilevel coefficients are defined in the factory and must not change during operation.	9964	Float	W	
11.4.4	MLC Coefficient-D	MultiLevel_D_3	E	Multilevel coefficient D for the corrective polynom of the molar content of ethane. The multilevel coefficients are defined in the factory and must not change during operation.	9966	Float	W	
11.5.0	Propane	HEAD_11_5	A	-	1094	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.5.1	MLC Coefficient-A	MultiLevel_A_4	E	Multilevel coefficient A for the corrective polynom of the molar content of propane. The multilevel coefficients are defined in the factory and must not change during operation.	9980	Float	W	
11.5.2	MLC Coefficient-B	MultiLevel_B_4	E	Multilevel coefficient B for the corrective polynom of the molar content of propane. The multilevel coefficients are defined in the factory and must not change during operation.	9982	Float	W	
11.5.3	MLC Coefficient-C	MultiLevel_C_4	E	Multilevel coefficient C for the corrective polynom of the molar content of propane. The multilevel coefficients are defined in the factory and must not change during operation.	9984	Float	W	
11.5.4	MLC Coefficient-D	MultiLevel_D_4	E	Multilevel coefficient D for the corrective polynom of the molar content of propane. The multilevel coefficients are defined in the factory and must not change during operation.	9986	Float	W	
11.6.0	iso-Butane	HEAD_11_6	A	-	1095	Titel	R	
11.6.1	MLC Coefficient-A	MultiLevel_A_5	E	Multilevel coefficient A for the corrective polynom of the molar content of iso-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10000	Float	W	
11.6.2	MLC Coefficient-B	MultiLevel_B_5	E	Multilevel coefficient B for the corrective polynom of the molar content of iso-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10002	Float	W	
11.6.3	MLC Coefficient-C	MultiLevel_C_5	E	Multilevel coefficient C for the corrective polynom of the molar content of iso-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10004	Float	W	
11.6.4	MLC Coefficient-D	MultiLevel_D_5	E	Multilevel coefficient D for the corrective polynom of the molar content of iso-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10006	Float	W	
11.7.0	n-Butane	HEAD_11_7	A	-	1096	Titel	R	
11.7.1	MLC Coefficient-A	MultiLevel_A_6	E	Multilevel coefficient A for the corrective polynom of the molar content of n-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10020	Float	W	
11.7.2	MLC Coefficient-B	MultiLevel_B_6	E	Multilevel coefficient B for the corrective polynom of the molar content of n-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10022	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.7.3	MLC Coefficient-C	MultiLevel_C_6	E	Multilevel coefficient C for the corrective polynom of the molar content of n-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10024	Float	W	
11.7.4	MLC Coefficient-D	MultiLevel_D_6	E	Multilevel coefficient D for the corrective polynom of the molar content of n-butane. The multilevel coefficients are defined in the factory and must not change during operation.	10026	Float	W	
11.8.0	neo-Pentane	HEAD_11_8	A	-	1097	Titel	R	
11.8.1	MLC Coefficient-A	MultiLevel_A_7	E	Multilevel coefficient A for the corrective polynom of the molar content of neo-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10040	Float	W	
11.8.2	MLC Coefficient-B	MultiLevel_B_7	E	Multilevel coefficient B for the corrective polynom of the molar content of neo-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10042	Float	W	
11.8.3	MLC Coefficient-C	MultiLevel_C_7	E	Multilevel coefficient C for the corrective polynom of the molar content of neo-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10044	Float	W	
11.8.4	MLC Coefficient-D	MultiLevel_D_7	E	Multilevel coefficient D for the corrective polynom of the molar content of neo-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10046	Float	W	
11.9.0	iso-Pentane	HEAD_11_9	A	-	1098	Titel	R	
11.9.1	MLC Coefficient-A	MultiLevel_A_8	E	Multilevel coefficient A for the corrective polynom of the molar content of iso-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10060	Float	W	
11.9.2	MLC Coefficient-B	MultiLevel_B_8	E	Multilevel coefficient B for the corrective polynom of the molar content of iso-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10062	Float	W	
11.9.3	MLC Coefficient-C	MultiLevel_C_8	E	Multilevel coefficient C for the corrective polynom of the molar content of iso-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10064	Float	W	
11.9.4	MLC Coefficient-D	MultiLevel_D_8	E	Multilevel coefficient D for the corrective polynom of the molar content of iso-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10066	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.10.0	n-Pentane	HEAD_11_10	A	-	1099	Titel	R	
11.10.1	MLC Coefficient-A	MultiLevel_A_9	E	Multilevel coefficient A for the corrective polynom of the molar content of n-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10080	Float	W	
11.10.2	MLC Coefficient-B	MultiLevel_B_9	E	Multilevel coefficient B for the corrective polynom of the molar content of n-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10082	Float	W	
11.10.3	MLC Coefficient-C	MultiLevel_C_9	E	Multilevel coefficient C for the corrective polynom of the molar content of n-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10084	Float	W	
11.10.4	MLC Coefficient-D	MultiLevel_D_9	E	Multilevel coefficient D for the corrective polynom of the molar content of n-pentane. The multilevel coefficients are defined in the factory and must not change during operation.	10086	Float	W	
11.11.0	C6+	HEAD_11_11	A	-	1100	Titel	R	
11.11.1	MLC Coefficient-A	MultiLevel_A_10	E	Multilevel coefficient A for the corrective polynom of the molar content of C6+. The multilevel coefficients are defined in the factory and must not change during operation.	10100	Float	W	
11.11.2	MLC Coefficient-B	MultiLevel_B_10	E	Multilevel coefficient B for the corrective polynom of the molar content of C6+. The multilevel coefficients are defined in the factory and must not change during operation.	10102	Float	W	
11.11.3	MLC Coefficient-C	MultiLevel_C_10	E	Multilevel coefficient C for the corrective polynom of the molar content of C6+. The multilevel coefficients are defined in the factory and must not change during operation.	10104	Float	W	
11.11.4	MLC Coefficient-D	MultiLevel_D_10	E	Multilevel coefficient D for the corrective polynom of the molar content of C6+. The multilevel coefficients are defined in the factory and must not change during operation.	10106	Float	W	
11.12.0	n-Hexane	HEAD_11_12	A	-	1101	Titel	R	
11.12.1	MLC Coefficient-A	MultiLevel_A_11	E	Multilevel coefficient A for the corrective polynom of the molar content of n-hexane. The multilevel coefficients are defined in the factory and must not change during operation.	10120	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.12.2	MLC Coefficient-B	MultiLevel_B_11	E	Multilevel coefficient B for the corrective polynom of the molar content of n-hexane. The multilevel coefficients are defined in the factory and must not change during operation.	10122	Float	W	
11.12.3	MLC Coefficient-C	MultiLevel_C_11	E	Multilevel coefficient C for the corrective polynom of the molar content of n-hexane. The multilevel coefficients are defined in the factory and must not change during operation.	10124	Float	W	
11.12.4	MLC Coefficient-D	MultiLevel_D_11	E	Multilevel coefficient D for the corrective polynom of the molar content of n-hexane. The multilevel coefficients are defined in the factory and must not change during operation.	10126	Float	W	
11.13.0	n-Heptane	HEAD_11_13	A	-	1102	Titel	R	
11.13.1	MLC Coefficient-A	MultiLevel_A_12	E	Multilevel coefficient A for the corrective polynom of the molar content of n-heptane. The multilevel coefficients are defined in the factory and must not change during operation.	10140	Float	W	
11.13.2	MLC Coefficient-B	MultiLevel_B_12	E	Multilevel coefficient B for the corrective polynom of the molar content of n-heptane. The multilevel coefficients are defined in the factory and must not change during operation.	10142	Float	W	
11.13.3	MLC Coefficient-C	MultiLevel_C_12	E	Multilevel coefficient C for the corrective polynom of the molar content of n-heptane. The multilevel coefficients are defined in the factory and must not change during operation.	10144	Float	W	
11.13.4	MLC Coefficient-D	MultiLevel_D_12	E	Multilevel coefficient D for the corrective polynom of the molar content of n-heptane. The multilevel coefficients are defined in the factory and must not change during operation.	10146	Float	W	
11.14.0	n-Octane	HEAD_11_14	A	-	1103	Titel	R	
11.14.1	MLC Coefficient-A	MultiLevel_A_13	E	Multilevel coefficient A for the corrective polynom of the molar content of n-octane. The multilevel coefficients are defined in the factory and must not change during operation.	10160	Float	W	
11.14.2	MLC Coefficient-B	MultiLevel_B_13	E	Multilevel coefficient B for the corrective polynom of the molar content of n-octane. The multilevel coefficients are defined in the factory and must not change during operation.	10162	Float	W	
11.14.3	MLC Coefficient-C	MultiLevel_C_13	E	Multilevel coefficient C for the corrective polynom of the molar content of n-octane. The multilevel coefficients are defined in the factory and must not change during operation.	10164	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.14.4	MLC Coefficient-D	MultiLevel_D_13	E	Multilevel coefficient D for the corrective polynom of the molar content of n-octane. The multilevel coefficients are defined in the factory and must not change during operation.	10166	Float	W	
11.15.0	n-Nonane	HEAD_11_15	A	-	1104	Titel	R	
11.15.1	MLC Coefficient-A	MultiLevel_A_14	E	Multilevel coefficient A for the corrective polynom of the molar content of n-nonane. The multilevel coefficients are defined in the factory and must not change during operation.	10180	Float	W	
11.15.2	MLC Coefficient-B	MultiLevel_B_14	E	Multilevel coefficient B for the corrective polynom of the molar content of n-nonane. The multilevel coefficients are defined in the factory and must not change during operation.	10182	Float	W	
11.15.3	MLC Coefficient-C	MultiLevel_C_14	E	Multilevel coefficient C for the corrective polynom of the molar content of n-nonane. The multilevel coefficients are defined in the factory and must not change during operation.	10184	Float	W	
11.15.4	MLC Coefficient-D	MultiLevel_D_14	E	Multilevel coefficient D for the corrective polynom of the molar content of n-nonane. The multilevel coefficients are defined in the factory and must not change during operation.	10186	Float	W	
11.16.0	Oxygen	HEAD_11_16	A	-	1105	Titel	R	
11.16.1	MLC Coefficient-A	MultiLevel_A_15	E	Multilevel coefficient A for the corrective polynom of the molar content of oxygen. The multilevel coefficients are defined in the factory and must not change during operation.	10200	Float	W	
11.16.2	MLC Coefficient-B	MultiLevel_B_15	E	Multilevel coefficient B for the corrective polynom of the molar content of oxygen. The multilevel coefficients are defined in the factory and must not change during operation.	10202	Float	W	
11.16.3	MLC Coefficient-C	MultiLevel_C_15	E	Multilevel coefficient C for the corrective polynom of the molar content of oxygen. The multilevel coefficients are defined in the factory and must not change during operation.	10204	Float	W	
11.16.4	MLC Coefficient-D	MultiLevel_D_15	E	Multilevel coefficient D for the corrective polynom of the molar content of oxygen. The multilevel coefficients are defined in the factory and must not change during operation.	10206	Float	W	
11.17.0	Helium	HEAD_11_17	A	-	1106	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.17.1	MLC Coefficient-A	MultiLevel_A_16	E	Multilevel coefficient A for the corrective polynom of the molar content of helium. The multilevel coefficients are defined in the factory and must not change during operation.	10220	Float	W	
11.17.2	MLC Coefficient-B	MultiLevel_B_16	E	Multilevel coefficient B for the corrective polynom of the molar content of helium. The multilevel coefficients are defined in the factory and must not change during operation.	10222	Float	W	
11.17.3	MLC Coefficient-C	MultiLevel_C_16	E	Multilevel coefficient C for the corrective polynom of the molar content of helium. The multilevel coefficients are defined in the factory and must not change during operation.	10224	Float	W	
11.17.4	MLC Coefficient-D	MultiLevel_D_16	E	Multilevel coefficient D for the corrective polynom of the molar content of helium. The multilevel coefficients are defined in the factory and must not change during operation.	10226	Float	W	
11.18.0	Hydrogen	HEAD_11_18	A	-	1107	Titel	R	
11.18.1	MLC Coefficient-A	MultiLevel_A_17	E	Multilevel coefficient A for the corrective polynom of the molar content of hydrogen. The multilevel coefficients are defined in the factory and must not change during operation.	10240	Float	W	
11.18.2	MLC Coefficient-B	MultiLevel_B_17	E	Multilevel coefficient B for the corrective polynom of the molar content of hydrogen. The multilevel coefficients are defined in the factory and must not change during operation.	10242	Float	W	
11.18.3	MLC Coefficient-C	MultiLevel_C_17	E	Multilevel coefficient C for the corrective polynom of the molar content of hydrogen. The multilevel coefficients are defined in the factory and must not change during operation.	10244	Float	W	
11.18.4	MLC Coefficient-D	MultiLevel_D_17	E	Multilevel coefficient D for the corrective polynom of the molar content of hydrogen. The multilevel coefficients are defined in the factory and must not change during operation.	10246	Float	W	
11.19.0	Argon	HEAD_11_19	A	-	1108	Titel	R	
11.19.1	MLC Coefficient-A	MultiLevel_A_18	E	Multilevel coefficient A for the corrective polynom of the molar content of argon. The multilevel coefficients are defined in the factory and must not change during operation.	10260	Float	W	
11.19.2	MLC Coefficient-B	MultiLevel_B_18	E	Multilevel coefficient B for the corrective polynom of the molar content of argon. The multilevel coefficients are defined in the factory and must not change during operation.	10262	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
11.19.3	MLC Coefficient-C	MultiLevel_C_18	E	Multilevel coefficient C for the corrective polynom of the molar content of argon. The multilevel coefficients are defined in the factory and must not change during operation.	10264	Float	W	
11.19.4	MLC Coefficient-D	MultiLevel_D_18	E	Multilevel coefficient D for the corrective polynom of the molar content of argon. The multilevel coefficients are defined in the factory and must not change during operation.	10266	Float	W	
11.20.0	Methanol	HEAD_11_20	A	-	1109	Titel	R	
11.20.1	MLC Coefficient-A	MultiLevel_A_19	E	Multilevel coefficient A for the corrective polynom of the molar content of methanol. The multilevel coefficients are defined in the factory and must not change during operation.	10280	Float	W	
11.20.2	MLC Coefficient-B	MultiLevel_B_19	E	Multilevel coefficient B for the corrective polynom of the molar content of methanol. The multilevel coefficients are defined in the factory and must not change during operation.	10282	Float	W	
11.20.3	MLC Coefficient-C	MultiLevel_C_19	E	Multilevel coefficient C for the corrective polynom of the molar content of methanol. The multilevel coefficients are defined in the factory and must not change during operation.	10284	Float	W	
11.20.4	MLC Coefficient-D	MultiLevel_D_19	E	Multilevel coefficient D for the corrective polynom of the molar content of methanol. The multilevel coefficients are defined in the factory and must not change during operation.	10286	Float	W	
11.21.0	Hydrogensulfid	HEAD_11_21	A	-	2095	Titel	R	
11.21.1	MLC Coefficient-A	MultiLevel_A_20	E	Multilevel coefficient A for the corrective polynom of the molar content of hydrogensulfid. The multilevel coefficients are defined in the factory and must not change during operation.	21716	Float	W	
11.21.2	MLC Coefficient-B	MultiLevel_B_20	E	Multilevel coefficient B for the corrective polynom of the molar content of hydrogensulfid. The multilevel coefficients are defined in the factory and must not change during operation.	21718	Float	W	
11.21.3	MLC Coefficient-C	MultiLevel_C_20	E	Multilevel coefficient C for the corrective polynom of the molar content of hydrogensulfid. The multilevel coefficients are defined in the factory and must not change during operation.	21720	Float	W	
11.21.4	MLC Coefficient-D	MultiLevel_D_20	E	Multilevel coefficient D for the corrective polynom of the molar content of hydrogensulfid. The multilevel coefficients are defined in the factory and must not change during operation.	21722	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
12.0.0	Calibration parameters	HEAD_12	A	-	1110	Titel	R	
12.0.1	Day/span/frequency	CalMode	E	Calibration interval mode: - Weekday - Day(s) If the calibration interval is 7 days, a weekday can be defined. Day(s) applies for calibrations x times per week.	1112	Menü	W	
12.0.2	Interval (days)	CalSpan	E	Calibration interval in days. This value is used if the calibration interval mode is set to Day(s).	1113	Integer	W	
12.0.3	Hour	CalHour	E	Hour in which calibration is to take place (0 to 23).	1114	Integer	W	
12.0.4	Last calibration	LastCalTime	A	Time at which the last calibration was started.	3006	Unix-time	R	
12.0.5	Next calibration	NextCalTime	A	Time at which the next calibration will be started.	3320	Unix-time	R	
12.0.6	RF for helium	RFHelium	E	Specifies whether the RF of hydrogen is used for helium in the calibration or not.	2019	Menü	W	
12.1.0	Set values	HEAD_12_1	A	-	1115	Titel	R	
12.1.1	Sum cal gas values	SumCalGasValues	P	Sum of the content of all gases in the internal calibration gas.	10848	Float	R	mol%
12.1.2	Nitrogen	CalGasSetValue_0	E	Set value for nitrogen content during calibration. This value can be found on the certificate for the internal calibration gas.	10300	Float	W	mol%
12.1.3	Methane	CalGasSetValue_1	E	Set value for methane content during calibration. This value can be found on the certificate for the internal calibration gas.	10302	Float	W	mol%
12.1.4	Carbon Dioxide	CalGasSetValue_2	E	Set value for carbon dioxide content during calibration. This value can be found on the certificate for the internal calibration gas.	10304	Float	W	mol%
12.1.5	Ethane	CalGasSetValue_3	E	Set value for ethane content during calibration. This value can be found on the certificate for the internal calibration gas.	10306	Float	W	mol%
12.1.6	Propane	CalGasSetValue_4	E	Set value for propane content during calibration. This value can be found on the certificate for the internal calibration gas.	10308	Float	W	mol%
12.1.7	iso-Butane	CalGasSetValue_5	E	Set value for i-butane content during calibration. This value can be found on the certificate for the internal calibration gas.	10310	Float	W	mol%
12.1.8	n-Butane	CalGasSetValue_6	E	Set value for n-butane content during calibration. This value can be found on the certificate for the internal calibration gas.	10312	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
12.1.9	neo-Pentane	CalGasSetValue_7	E	Set value for neopentane content during calibration. This value can be found on the certificate for the internal calibration gas.	10314	Float	W	mol%
12.1.10	iso-Pentane	CalGasSetValue_8	E	Set value for i-pentane content during calibration. This value can be found on the certificate for the internal calibration gas.	10316	Float	W	mol%
12.1.11	n-Pentane	CalGasSetValue_9	E	Set value for n-pentane content during calibration. This value can be found on the certificate for the internal calibration gas.	10318	Float	W	mol%
12.1.12	C6+	CalGasSetValue_10	E	Set value for C6+ content during calibration. This value can be found on the certificate for the internal calibration gas.	10320	Float	W	mol%
12.1.13	n-Hexane	CalGasSetValue_11	E	Set value for n-hexane content during calibration. This value can be found on the certificate for the internal calibration gas.	10322	Float	W	mol%
12.1.14	n-Heptane	CalGasSetValue_12	E	Set value for n-heptane content during calibration. This value can be found on the certificate for the internal calibration gas.	10324	Float	W	mol%
12.1.15	n-Octane	CalGasSetValue_13	E	Set value for n-octane content during calibration. This value can be found on the certificate for the internal calibration gas.	10326	Float	W	mol%
12.1.16	n-Nonane	CalGasSetValue_14	E	Set value for n-nonane content during calibration. This value can be found on the certificate for the internal calibration gas.	10328	Float	W	mol%
12.1.17	Oxygen	CalGasSetValue_15	E	Set value for oxygen content during calibration. This value can be found on the certificate for the internal calibration gas.	10330	Float	W	mol%
12.1.18	Helium	CalGasSetValue_16	E	Set value for helium content during calibration. This value can be found on the certificate for the internal calibration gas.	10332	Float	W	mol%
12.1.19	Hydrogen	CalGasSetValue_17	E	Set value for hydrogen content during calibration. This value can be found on the certificate for the internal calibration gas.	10334	Float	W	mol%
12.1.20	Argon	CalGasSetValue_18	E	Set value for argon content during calibration. This value can be found on the certificate for the internal calibration gas.	10336	Float	W	mol%
12.1.21	Methanol	CalGasSetValue_19	E	Set value for methanol during calibration. This value can be found on the certificate for the internal calibration gas.	10338	Float	W	mol%
12.1.22	Hydrogensulfid	CalGasSetValue_20	E	Set value for hydrogensulfid during calibration. This value can be found on the certificate for the internal calibration gas.	21726	Float	W	mol%
12.1.23	Hs set value	CalGasHoSetValue	E	Set value for superior calorific value during calibration. This value can be found on the certificate for the internal calibration gas.	7192	Float	W	&UnitHs

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
12.1.24	SD set value	CalGasRhonSet-Value	E	Set value for standard density during calibration. This value can be found on the certificate for the internal calibration gas.	7194	Float	W	&UnitRhon
12.2.0	Limits cal.	HEAD_12_2	A	-	1116	Titel	R	
12.2.1	Hs deviation	CalGasHoDev	E	Maximum permissible deviation (%) between measured value and set value for superior calorific value during calibration	7196	Float	W	%
12.2.2	SD deviation	CalGasRhonDev	E	Maximum permissible deviation (%) between measured value and set value for standard density during calibration	7198	Float	W	%
12.2.3	CO2 deviation	CalGasCo2Dev	E	Maximum permissible deviation (mol%) between measured value and set value for CO2 content during calibration	7200	Float	W	mol%
12.2.4	Response factor dev.	CalGasRFDev	E	Maximum permissible deviation between the response factors from automatic and manual calibration (RF) and those from basic calibration (RFZ)	7202	Float	W	%
12.2.5	Sum area deviation	CalSumAreaDev	E	Maximum permissible deviation between the sum of all peak areas from automatic and manual calibration (RT) and the sum from basic calibration (RTZ)	7204	Float	W	%
13.0.0	Calculation parameters	HEAD_13	A	-	1117	Titel	R	
13.0.1	Calculation Mode	HoCalcMode	E	Calculation as per ISO 6976:2016 or GPA 2172. For GPA, 60 °F and 14.73 psi or 14.696 psi must be set. In Europe ISO 6976 is used.	1118	Menü	W	
13.0.2	Calculation methods	MathMode	E	Selection of calculation method.	2021	Menü	W	
13.1.0	ISO-6976	HEAD_13_1	A	-	1119	Titel	R	
13.2.0	GPA-2172-09	HEAD_13_2	A	-	1120	Titel	R	
13.2.1	GPA Hv calc.	GPAHoMode	E	Calculation mode for superior calorific value as per GPA-2172-09. Ideal Hs DRY: Dry gas, without real gas corrector Ideal Hs SAT: Wet gas (saturated), without real gas corrector Real Hs DRY: Dry gas, with real gas corrector Real Hs SAT: Wet gas (saturated), with real gas corrector	1121	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.2.2	GPA density calc.	GPAGMode	E	Calculation mode for standard density as per GPA-2172-09. Ideal Density DRY: Dry gas, without real gas corrector Ideal Density SAT: Wet gas (saturated), without real gas corrector Real Density DRY: Dry gas, with real gas corrector Real Density SAT: Wet gas (saturated), with real gas corrector	1122	Menü	W	
13.2.3	GPA Wobbe calc.	GPAWoMode	E	Calculation mode for Wobbe index as per GPA-2172-09. Ideal Wo Index DRY: Dry gas, without real gas corrector Ideal Wo Index SAT: Wet gas (saturated), without real gas corrector Real Wo Index DRY: Dry gas, with real gas corrector Real Wo Index SAT: Wet gas (saturated), with real gas corrector	1123	Menü	W	
13.2.4	GPA Z-factor calc.	GPAZMode	E	Calculation mode for real gas factor as per GPA-2172-09. DRY: Dry gas SAT: Wet gas (saturated)	1124	Menü	W	
13.2.5	GPA Hexan mode	GPAMode	E	C6 input variable for GPA-2172-09. HEXANE: n-Hexane HEXANE MEAN VALUE: Hexane (C6+)	1125	Menü	W	
13.2.6	GPA NeoP.-Mode	GPANeoPMode	E	C5 input variable for GPA-2172-09. I-PENTANE: Neopentane is not taken into account separately, but instead added to iso-pentane	1126	Menü	W	
13.3.0	Reference conditions	HEAD_13_3	A	-	1127	Titel	R	
13.3.1	Reference temp.	TnSelect	E	Temperature at base conditions for volume correction. Australia 15 Austria 0 Belgium 0 Canada 15 Denmark 0 France 0 Germany 0 Ireland 15 Italy 0 Japan 0 Netherlands 0 Russia 0/20 United Kingdom . 15 USA 15	1128	Menü	W	
13.3.2	Combustion temp.	TbSelect	E	Reference temperature for superior calorific value. Australia 15 Austria 25 Belgium 25 Canada 15 Denmark 25 France 0 Germany 25 Ireland 15 Italy 25 Japan 0 Netherlands 25 Russia 25 United Kingdom . 15 USA 15	1129	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.3.3	Press. at base cond.	PnSelect	E	Selection of pressure at base conditions (1.01325 bar/14.696 psi/14.73 psi) In Germany and Austria the value is 1.01325 bar.	1130	Menü	W	
13.3.4	Reference temp.	TnK	A	Display of pressure at base conditions in K	7206	Float	R	K
13.3.5	Reference temp. T1	TnC	A	Display of pressure at base conditions in °C	7208	Float	R	°C
13.3.6	Reference temp. T1	TnF	A	Display of pressure at base conditions in °F	7220	Float	R	°F
13.3.7	Combustion temp. T2	TbC	A	Display of reference temperature for superior calorific value in °C	7212	Float	R	°C
13.3.8	Combustion temp. T2	TbF	A	Display of reference temperature for superior calorific value in °F	7214	Float	R	°F
13.3.9	Press. at base cond.	PnBAR	A	Display of pressure at base conditions in bar	7216	Float	R	bar
13310	Press. at base cond.	PnPSI	A	Display of pressure at base conditions in psi	7218	Float	R	psi
13.4.0	Limits ana.,cal.	HEAD_13_4	A	-	1131	Titel	R	
13.4.1	RT deviation	RTDev	E	Maximum permissible deviation of the retention time in percent. The retention time of C6+ is not monitored because this value is a collective peak.	7222	Float	W	%
13.4.2	Unnorm. sum deviat.	UnNormSumDev	E	Maximum permissible deviation of the unnormalized sum in percent	7224	Float	W	%
13.5.0	Limits ana.	HEAD_13_5	A	-	1132	Titel	R	
13.5.1	Hs set value	HoSetValue	E	Substitute value for superior calorific value. This fixed value is output instead of the measured value in the event of an alarm.	7226	Float	W	&UnitHs
13.5.2	Hs min. limit	HoMinValue	E	Lower alarm limit for superior calorific value. Falling short of this value triggers an alarm. In custody transfer operation, this is the lower measuring range limit as per the PTB approval.	7228	Float	W	&UnitHs
13.5.3	Hs max. limit	HoMaxValue	E	Upper alarm limit for superior calorific value. Exceeding this value triggers an alarm. In custody transfer operation, this is the lower measuring range limit as per the PTB approval.	7230	Float	W	&UnitHs
13.5.4	Ws set value	WoSetValue	E	Substitute value for Wobbe index. This fixed value is output instead of the measured value in the event of an alarm.	7232	Float	W	&UnitHs
13.5.5	Ws min. limit	WoMinValue	E	Lower alarm limit for Wobbe index. Falling short of this value triggers an alarm.	7234	Float	W	&UnitHs

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.5.6	Ws max. limit	WoMaxValue	E	Upper alarm limit for Wobbe index. Exceeding this value triggers an alarm.	7236	Float	W	&UnitHs
13.5.7	MZ set value	MzSetValue	E	Substitute value for methane number. This fixed value is output instead of the measured value in the event of an alarm.	7238	Float	W	
13.5.8	MZ min. limit	MzMinValue	E	Lower alarm limit for methane number. Falling short of this value triggers an alarm.	7240	Float	W	
13.5.9	MZ max. limit	MzMaxValue	E	Upper alarm limit for methane number. Exceeding this value triggers an alarm.	7242	Float	W	
13.5.10	SD set value	RhonSetValue	E	Substitute value for standard density. This fixed value is output instead of the measured value in the event of an alarm.	7250	Float	W	&UnitRhon
13.5.11	SD min. limit	RhonMinValue	E	Lower alarm limit for standard density. Falling short of this value triggers an alarm. In custody transfer operation, this is the lower measuring range limit as per the PTB approval.	7252	Float	W	&UnitRhon
13.5.12	SD max. limit	RhonMaxValue	E	Upper alarm limit for standard density. Exceeding this value triggers an alarm. In custody transfer operation, this is the lower measuring range limit as per the PTB approval.	7254	Float	W	&UnitRhon
13.5.13	DV set value	DVSetValue	E	Substitute value for relative density. This fixed value is output instead of the measured value in the event of an alarm.	7244	Float	W	
13.5.14	DV min. limit	DVMinValue	E	Lower alarm limit for relative density. Falling short of this value triggers an alarm.	7246	Float	W	
13.5.15	DV max. limit	DVMaxValue	E	Upper alarm limit for relative density. Exceeding this value triggers an alarm.	7248	Float	W	
13.6.0	Approved min value ana.	HEAD_13_6	A	-	1481	Titel	R	
13.6.1	Nitrogen	CompMinValue_0	E	Lower limit according to approval for the nitrogen content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10390	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.6.2	Methane	CompMinValue_1	E	Lower limit according to approval for the methane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10392	Float	W	mol%
13.6.3	Carbon Dioxide	CompMinValue_2	E	Lower limit according to approval for the carbon dioxide content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10394	Float	W	mol%
13.6.4	Ethane	CompMinValue_3	E	Lower limit according to approval for the ethane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10396	Float	W	mol%
13.6.5	Propane	CompMinValue_4	E	Lower limit according to approval for the propane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10398	Float	W	mol%
13.6.6	iso-Butane	CompMinValue_5	E	Lower limit according to approval for the i-butane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10400	Float	W	mol%
13.6.7	n-Butane	CompMinValue_6	E	Lower limit according to approval for the n-butane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10402	Float	W	mol%
13.6.8	neo-Pentane	CompMinValue_7	E	Lower limit according to approval for the neopentane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10404	Float	W	mol%
13.6.9	iso-Pentane	CompMinValue_8	E	Lower limit according to approval for the i-pentane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10406	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.6.10	n-Pentane	CompMinValue_9	E	Lower limit according to approval for the n-pentane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10408	Float	W	mol%
13.6.11	C6+	CompMinValue_10	E	Lower limit according to approval for the C6+ content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10410	Float	W	mol%
13.6.12	n-Hexane	CompMinValue_11	E	Lower limit according to approval for the n-hexane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10412	Float	W	mol%
13.6.13	n-Heptane	CompMinValue_12	E	Lower limit according to approval for the n-heptane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10414	Float	W	mol%
13.6.14	n-Octane	CompMinValue_13	E	Lower limit according to approval for the n-octane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10416	Float	W	mol%
13.6.15	n-Nonane	CompMinValue_14	E	Lower limit according to approval for the n-nonane content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10418	Float	W	mol%
13.6.16	Oxygen	CompMinValue_15	E	Lower limit according to approval for the oxygen content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10420	Float	W	mol%
13.6.17	Helium	CompMinValue_16	E	Lower limit according to approval for the helium content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10422	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.6.18	Hydrogen	CompMinValue_17	E	Lower limit according to approval for the hydrogen content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10424	Float	W	mol%
13.6.19	Argon	CompMinValue_18	E	Lower limit according to approval for the argon content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10426	Float	W	mol%
13.6.20	Methanol	CompMinValue_19	E	Lower limit according to approval for the methanol content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	10428	Float	W	mol%
13.6.21	Hydrogensulfid	CompMinValue_20	E	Lower limit according to approval for the hydrogensulfid content. Falling short of this value triggers either an alarm or a warning. In custody transfer operation, this is the lower measuring range limit as per approval.	21728	Float	W	mol%
13.7.0	Approved max value ana.	HEAD_13_7	A	-	1482	Titel	R	
13.7.1	Nitrogen	CompMaxValue_0	E	Upper limit according to approval for the nitrogen content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10430	Float	W	mol%
13.7.2	Methane	CompMaxValue_1	E	Upper limit according to approval for the methane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10432	Float	W	mol%
13.7.3	Carbon Dioxide	CompMaxValue_2	E	Upper limit according to approval for the carbon dioxide content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10434	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.7.4	Ethane	CompMaxValue_3	E	Upper limit according to approval for the ethane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10436	Float	W	mol%
13.7.5	Propane	CompMaxValue_4	E	Upper limit according to approval for the propane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10438	Float	W	mol%
13.7.6	iso-Butane	CompMaxValue_5	E	Upper limit according to approval for the i-butane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10440	Float	W	mol%
13.7.7	n-Butane	CompMaxValue_6	E	Upper limit according to approval for the n-butane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10442	Float	W	mol%
13.7.8	neo-Pentane	CompMaxValue_7	E	Upper limit according to approval for the neopentane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10444	Float	W	mol%
13.7.9	iso-Pentane	CompMaxValue_8	E	Upper limit according to approval for the i-pentane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10446	Float	W	mol%
13.7.10	n-Pentane	CompMaxValue_9	E	Upper limit according to approval for the n-pentane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10448	Float	W	mol%
13.7.11	C6+	CompMaxValue_10	E	Upper limit according to approval for the C6+ content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10450	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.7.12	n-Hexane	CompMaxValue_11	E	Upper limit according to approval for the n-hexane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10452	Float	W	mol%
13.7.13	n-Heptane	CompMaxValue_12	E	Upper limit according to approval for the n-heptane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10454	Float	W	mol%
13.7.14	n-Octane	CompMaxValue_13	E	Upper limit according to approval for the n-octane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10456	Float	W	mol%
13.7.15	n-Nonane	CompMaxValue_14	E	Upper limit according to approval for the n-nonane content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10458	Float	W	mol%
13.7.16	Oxygen	CompMaxValue_15	E	Upper limit according to approval for the oxygen content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10460	Float	W	mol%
13.7.17	Helium	CompMaxValue_16	E	Upper limit according to approval for the helium content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10462	Float	W	mol%
13.7.18	Hydrogen	CompMaxValue_17	E	Upper limit according to approval for the hydrogen content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10464	Float	W	mol%
13.7.19	Argon	CompMaxValue_18	E	Upper limit according to approval for the argon content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10466	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.7.20	Methanol	CompMaxValue_19	E	Upper limit according to approval for the methanol content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	10468	Float	W	mol%
13.7.21	Hydrogensulfid	CompMaxValue_20	E	Upper limit according to approval for the hydrogensulfid content. Exceeding this value triggers either an alarm or a warning. In custody transfer operation, this is the upper measuring range limit as per approval.	21730	Float	W	mol%
13.8.0	Set value ana.	HEAD_13_8	A	-	1483	Titel	R	
13.8.1	Set val. fault mode	CompLimitErr-Mode	E	Component malfunction - limit value violation. Either a warning or a fault is generated in the event of a limit value violation.	1485	Menü	W	
13.8.2	Set value mode	CompSetMode	E	Mode for the components - default values. ALL: All default values are set in the event of a limit value violation. IGNORE: The default values are ignored. SINGLE: Only the corresponding value is set in the event of a limit value violation.	1486	Menü	W	
13.8.3	Nitrogen	CompSetValue_0	E	Default value for the nitrogen content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10470	Float	W	mol%
13.8.4	Methane	CompSetValue_1	E	Default value for the methane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10472	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.8.5	Carbon Dioxide	CompSetValue_2	E	Default value for the carbon dioxide content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10474	Float	W	mol%
13.8.6	Ethane	CompSetValue_3	E	Default value for the ethane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10476	Float	W	mol%
13.8.7	Propane	CompSetValue_4	E	Default value for the propane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10478	Float	W	mol%
13.8.8	iso-Butane	CompSetValue_5	E	Default value for the i-butane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10480	Float	W	mol%
13.8.9	n-Butane	CompSetValue_6	E	Default value for the n-butane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10482	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.8.10	neo-Pentane	CompSetValue_7	E	Default value for the neopentane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10484	Float	W	mol%
13.8.11	iso-Pentane	CompSetValue_8	E	Default value for the i-pentane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10486	Float	W	mol%
13.8.12	n-Pentane	CompSetValue_9	E	Default value for the n-pentane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10488	Float	W	mol%
13.8.13	C6+	CompSetValue_10	E	Default value for the C6+ content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10490	Float	W	mol%
13.8.14	n-Hexane	CompSetValue_11	E	Default value for the n-hexane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10492	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.8.15	n-Heptane	CompSetValue_12	E	Default value for the n-heptane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10494	Float	W	mol%
13.8.16	n-Octane	CompSetValue_13	E	Default value for the n-octane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10496	Float	W	mol%
13.8.17	n-Nonane	CompSetValue_14	E	Default value for the n-nonane content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10498	Float	W	mol%
13.8.18	Oxygen	CompSetValue_15	E	Default value for the oxygen content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10500	Float	W	mol%
13.8.19	Helium	CompSetValue_16	E	Default value for the helium content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10502	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.8.20	Hydrogen	CompSetValue_17	E	Default value for the hydrogen content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10504	Float	W	mol%
13.8.21	Argon	CompSetValue_18	E	Default value for the argon content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10506	Float	W	mol%
13.8.22	Methanol	CompSetValue_19	E	Default value for the methanol content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	10508	Float	W	mol%
13.8.23	Hydrogensulfid	CompSetValue_20	E	Default value for the hydrogensulfid content in the event of a limit violation. This value is currently checked at the end of all calculations. In other words, all calculations are performed with the determined variables. The default values are used for display purposes and for transfer via Modbus or DSfG.	21732	Float	W	mol%
13.9.0	Alarm limits ana.,cal.	HEAD_13_9	A	-	1912	Titel	R	
13.9.1	min. Nitrogen	ConcErrMin_0	E	Lower alarm limit for the nitrogen content. Falling short of this value triggers an alarm.	9912	Float	W	mol%
13.9.2	max. Nitrogen	ConcErrMax_0	E	Upper alarm limit for the nitrogen content. Exceeding this value triggers an alarm.	9914	Float	W	mol%
13.9.3	min. Methane	ConcErrMin_1	E	Lower alarm limit for the methane content. Falling short of this value triggers an alarm.	9932	Float	W	mol%
13.9.4	max. Methane	ConcErrMax_1	E	Upper alarm limit for the methane content. Exceeding this value triggers an alarm.	9934	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.9.5	min. Carbon Dioxide	ConcErrMin_2	E	Lower alarm limit for the carbon dioxide content. Falling short of this value triggers an alarm.	9952	Float	W	mol%
13.9.6	max. Carbon Dioxide	ConcErrMax_2	E	Upper alarm limit for the carbon dioxide content. Exceeding this value triggers an alarm.	9954	Float	W	mol%
13.9.7	min. Ethane	ConcErrMin_3	E	Lower alarm limit for the ethane content. Falling short of this value triggers an alarm.	9972	Float	W	mol%
13.9.8	max. Ethane	ConcErrMax_3	E	Upper alarm limit for the ethane content. Exceeding this value triggers an alarm.	9974	Float	W	mol%
13.9.9	min. Propane	ConcErrMin_4	E	Lower alarm limit for the propane content. Falling short of this value triggers an alarm.	9992	Float	W	mol%
13.9.10	max. Propane	ConcErrMax_4	E	Upper alarm limit for the propane content. Exceeding this value triggers an alarm.	9994	Float	W	mol%
13.9.11	min. iso-Butane	ConcErrMin_5	E	Lower alarm limit for the i-butane content. Falling short of this value triggers an alarm.	10012	Float	W	mol%
13.9.12	max. iso-Butane	ConcErrMax_5	E	Upper alarm limit for the i-butane content. Exceeding this value triggers an alarm.	10014	Float	W	mol%
13.9.13	min. n-Butane	ConcErrMin_6	E	Lower alarm limit for the n-butane content. Falling short of this value triggers an alarm.	10032	Float	W	mol%
13.9.14	max. n-Butane	ConcErrMax_6	E	Upper alarm limit for the n-butane content. Exceeding this value triggers an alarm.	10034	Float	W	mol%
13.9.15	min. neo-Pentane	ConcErrMin_7	E	Lower alarm limit for the neopentane content. Falling short of this value triggers an alarm.	10052	Float	W	mol%
13.9.16	max. neo-Pentane	ConcErrMax_7	E	Upper alarm limit for the neopentane content. Exceeding this value triggers an alarm.	10054	Float	W	mol%
13.9.17	min. iso-Pentane	ConcErrMin_8	E	Lower alarm limit for the i-pentane content. Falling short of this value triggers an alarm.	10072	Float	W	mol%
13.9.18	max. iso-Pentane	ConcErrMax_8	E	Upper alarm limit for the i-pentane content. Exceeding this value triggers an alarm.	10074	Float	W	mol%
13.9.19	min. n-Pentane	ConcErrMin_9	E	Lower alarm limit for the n-pentane content. Falling short of this value triggers an alarm.	10092	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.9.20	max. n-Pentane	ConcErrMax_9	E	Upper alarm limit for the n-pentane content. Exceeding this value triggers an alarm.	10094	Float	W	mol%
13.9.21	min. C6+	ConcErrMin_10	E	Lower alarm limit for the C6+ content. Falling short of this value triggers an alarm.	10112	Float	W	mol%
13.9.22	max. C6+	ConcErrMax_10	E	Upper alarm limit for the C6+ content. Exceeding this value triggers an alarm.	10114	Float	W	mol%
13.9.23	min. n-Hexane	ConcErrMin_11	E	Lower alarm limit for the n-hexane content. Falling short of this value triggers an alarm.	10132	Float	W	mol%
13.9.24	max. n-Hexane	ConcErrMax_11	E	Upper alarm limit for the n-hexane content. Exceeding this value triggers an alarm.	10134	Float	W	mol%
13.9.25	min. n-Heptane	ConcErrMin_12	E	Lower alarm limit for the n-heptane content. Falling short of this value triggers an alarm.	10152	Float	W	mol%
13.9.26	max. n-Heptane	ConcErrMax_12	E	Upper alarm limit for the n-heptane content. Exceeding this value triggers an alarm.	10154	Float	W	mol%
13.9.27	min. n-Octane	ConcErrMin_13	E	Lower alarm limit for the n-octane content. Falling short of this value triggers an alarm.	10172	Float	W	mol%
13.9.28	max. n-Octane	ConcErrMax_13	E	Upper alarm limit for the n-octane content. Exceeding this value triggers an alarm.	10174	Float	W	mol%
13.9.29	min. n-Nonane	ConcErrMin_14	E	Lower alarm limit for the n-nonane content. Falling short of this value triggers an alarm.	10192	Float	W	mol%
13.9.30	max. n-Nonane	ConcErrMax_14	E	Upper alarm limit for the n-nonane content. Exceeding this value triggers an alarm.	10194	Float	W	mol%
13.9.31	min. Oxygen	ConcErrMin_15	E	Lower alarm limit for the oxygen content. Falling short of this value triggers an alarm.	10212	Float	W	mol%
13.9.32	max. Oxygen	ConcErrMax_15	E	Upper alarm limit for the oxygen content. Exceeding this value triggers an alarm.	10214	Float	W	mol%
13.9.33	min. Helium	ConcErrMin_16	E	Lower alarm limit for the helium content. Falling short of this value triggers an alarm.	10232	Float	W	mol%
13.9.34	max. Helium	ConcErrMax_16	E	Upper alarm limit for the helium content. Exceeding this value triggers an alarm.	10234	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.9.35	min. Hydrogen	ConcErrMin_17	E	Lower alarm limit for the hydrogen content. Falling short of this value triggers an alarm.	10252	Float	W	mol%
13.9.36	max. Hydrogen	ConcErrMax_17	E	Upper alarm limit for the hydrogen content. Exceeding this value triggers an alarm.	10254	Float	W	mol%
13.9.37	min. Argon	ConcErrMin_18	E	Lower alarm limit for the argon content. Falling short of this value triggers an alarm.	10272	Float	W	mol%
13.9.38	max. Argon	ConcErrMax_18	E	Upper alarm limit for the argon content. Exceeding this value triggers an alarm.	10274	Float	W	mol%
13.9.39	min. Methanol	ConcErrMin_19	E	Lower alarm limit for the methanol content. Falling short of this value triggers an alarm.	10292	Float	W	mol%
13.9.40	max. Methanol	ConcErrMax_19	E	Upper alarm limit for the methanol content. Exceeding this value triggers an alarm.	10294	Float	W	mol%
13.9.41	min. Hydrogensulfid	ConcErrMin_20	E	Lower alarm limit for the hydrogensulfid content. Falling short of this value triggers an alarm.	21734	Float	W	mol%
13.9.42	max. Hydrogensulfid	ConcErrMax_20	E	Upper alarm limit for the hydrogensulfid content. Exceeding this value triggers an alarm.	21736	Float	W	mol%
13.10.0	Warn limits ana.,cal.	HEAD_13_10	A	-	1913	Titel	R	
13.10.1	min. Nitrogen	ConcWarnMin_0	E	Lower warning limit for the nitrogen content. Falling short of this value triggers a warning.	9908	Float	W	mol%
13.10.2	max. Nitrogen	ConcWarnMax_0	E	Upper warning limit for the nitrogen content. Exceeding this value triggers a warning.	9910	Float	W	mol%
13.10.3	min. Methane	ConcWarnMin_1	E	Lower warning limit for the methane content. Falling short of this value triggers a warning.	9928	Float	W	mol%
13.10.4	max. Methane	ConcWarnMax_1	E	Upper warning limit for the methane content. Exceeding this value triggers a warning.	9930	Float	W	mol%
13.10.5	min. Carbon Dioxide	ConcWarnMin_2	E	Lower warning limit for the carbon dioxide content. Falling short of this value triggers a warning.	9948	Float	W	mol%
13.10.6	max. Carbon Dioxide	ConcWarnMax_2	E	Upper warning limit for the carbon dioxide content. Exceeding this value triggers a warning.	9950	Float	W	mol%
13.10.7	min. Ethane	ConcWarnMin_3	E	Lower warning limit for the ethane content. Falling short of this value triggers a warning.	9968	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.10.8	max. Ethane	ConcWarnMax_3	E	Upper warning limit for the ethane content. Exceeding this value triggers a warning.	9970	Float	W	mol%
13.10.9	min. Propane	ConcWarnMin_4	E	Lower warning limit for the propane content. Falling short of this value triggers a warning.	9988	Float	W	mol%
13.10.10	max. Propane	ConcWarnMax_4	E	Upper warning limit for the propane content. Exceeding this value triggers a warning.	9990	Float	W	mol%
13.10.11	min. iso-Butane	ConcWarnMin_5	E	Lower warning limit for the i-butane content. Falling short of this value triggers a warning.	10008	Float	W	mol%
13.10.12	max. iso-Butane	ConcWarnMax_5	E	Upper warning limit for the i-butane content. Exceeding this value triggers a warning.	10010	Float	W	mol%
13.10.13	min. n-Butane	ConcWarnMin_6	E	Lower warning limit for the n-butane content. Falling short of this value triggers a warning.	10028	Float	W	mol%
13.10.14	max. n-Butane	ConcWarnMax_6	E	Upper warning limit for the n-butane content. Exceeding this value triggers a warning.	10030	Float	W	mol%
13.10.15	min. neo-Pentane	ConcWarnMin_7	E	Lower warning limit for the neopentane content. Falling short of this value triggers a warning.	10048	Float	W	mol%
13.10.16	max. neo-Pentane	ConcWarnMax_7	E	Upper warning limit for the neopentane content. Exceeding this value triggers a warning.	10050	Float	W	mol%
13.10.17	min. iso-Pentane	ConcWarnMin_8	E	Lower warning limit for the i-pentane content. Falling short of this value triggers a warning.	10068	Float	W	mol%
13.10.18	max. iso-Pentane	ConcWarnMax_8	E	Upper warning limit for the i-pentane content. Exceeding this value triggers a warning.	10070	Float	W	mol%
13.10.19	min. n-Pentane	ConcWarnMin_9	E	Lower warning limit for the n-pentane content. Falling short of this value triggers a warning.	10088	Float	W	mol%
13.10.20	max. n-Pentane	ConcWarnMax_9	E	Upper warning limit for the n-pentane content. Exceeding this value triggers a warning.	10090	Float	W	mol%
13.10.21	min. C6+	ConcWarnMin_10	E	Lower warning limit for the C6+ content. Falling short of this value triggers a warning.	10108	Float	W	mol%
13.10.22	max. C6+	ConcWarnMax_10	E	Upper warning limit for the C6+ content. Exceeding this value triggers a warning.	10110	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.10.23	min. n-Hexane	ConcWarnMin_11	E	Lower warning limit for the n-hexane content. Falling short of this value triggers a warning.	10128	Float	W	mol%
13.10.24	max. n-Hexane	ConcWarnMax_11	E	Upper warning limit for the n-hexane content. Exceeding this value triggers a warning.	10130	Float	W	mol%
13.10.25	min. n-Heptane	ConcWarnMin_12	E	Lower warning limit for the n-heptane content. Falling short of this value triggers a warning.	10148	Float	W	mol%
13.10.26	max. n-Heptane	ConcWarnMax_12	E	Upper warning limit for the n-heptane content. Exceeding this value triggers a warning.	10150	Float	W	mol%
13.10.27	min. n-Octane	ConcWarnMin_13	E	Lower warning limit for the n-octane content. Falling short of this value triggers a warning.	10168	Float	W	mol%
13.10.28	max. n-Octane	ConcWarnMax_13	E	Upper warning limit for the n-octane content. Exceeding this value triggers a warning.	10170	Float	W	mol%
13.10.29	min. n-Nonane	ConcWarnMin_14	E	Lower warning limit for the n-nonane content. Falling short of this value triggers a warning.	10188	Float	W	mol%
13.10.30	max. n-Nonane	ConcWarnMax_14	E	Upper warning limit for the n-nonane content. Exceeding this value triggers a warning.	10190	Float	W	mol%
13.10.31	min. Oxygen	ConcWarnMin_15	E	Lower warning limit for the oxygen content. Falling short of this value triggers a warning.	10208	Float	W	mol%
13.10.32	max. Oxygen	ConcWarnMax_15	E	Upper warning limit for the oxygen content. Exceeding this value triggers a warning.	10210	Float	W	mol%
13.10.33	min. Helium	ConcWarnMin_16	E	Lower warning limit for the helium content. Falling short of this value triggers a warning.	10228	Float	W	mol%
13.10.34	max. Helium	ConcWarnMax_16	E	Upper warning limit for the helium content. Exceeding this value triggers a warning.	10230	Float	W	mol%
13.10.35	min. Hydrogen	ConcWarnMin_17	E	Lower warning limit for the hydrogen content. Falling short of this value triggers a warning.	10248	Float	W	mol%
13.10.36	max. Hydrogen	ConcWarnMax_17	E	Upper warning limit for the hydrogen content. Exceeding this value triggers a warning.	10250	Float	W	mol%
13.10.37	min. Argon	ConcWarnMin_18	E	Lower warning limit for the argon content. Falling short of this value triggers a warning.	10268	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.10.38	max. Argon	ConcWarnMax_18	E	Upper warning limit for the argon content. Exceeding this value triggers a warning.	10270	Float	W	mol%
13.10.39	min. Methanol	ConcWarnMin_19	E	Lower warning limit for the methanol content. Falling short of this value triggers a warning.	10288	Float	W	mol%
13.10.40	max. Methanol	ConcWarnMax_19	E	Upper warning limit for the methanol content. Exceeding this value triggers a warning.	10290	Float	W	mol%
13.10.41	min. Hydrogensulfid	ConcWarnMin_20	E	Lower warning limit for the hydrogensulfid content. Falling short of this value triggers a warning.	21738	Float	W	mol%
13.10.42	max. Hydrogensulfid	ConcWarnMax_20	E	Upper warning limit for the hydrogensulfid content. Exceeding this value triggers a warning.	21740	Float	W	mol%
13.11.0	Units	HEAD_13_11	A	-	1133	Titel	R	
13.11.1	Unit standard density	UnitRhon	E	Unit for standard density	1649	Menü	W	
13.11.2	Unit calorific value	UnitHs	E	Unit for superior calorific value	1134	Menü	W	
13.11.3	Factor calorific val.	FactorHs	A	Internal conversion factor for superior calorific value from MJ/m3 to the selected unit.	7256	Float	R	
13.12.0	Test inputs	HEAD_13_12	A	-	1135	Titel	R	
13.12.1	Set default values	SetSim	N	Test function for calculating gas quality values from the gas composition. The calculation method is selected here. ALL ZERO: All values are set to zero ISO: Calculation as per ISO 6976 GPA: Calculation as per GPA-2172-09 DAN: Calculation using table values	1136	Menü	W	
13.12.2	Nitrogen	Concentration_SIM_0	N	Specification of the nitrogen content for the calculation test	10350	Float	W	mol%
13.12.3	Methane	Concentration_SIM_1	N	Specification of the methane content for the calculation test	10352	Float	W	mol%
13.12.4	Carbon Dioxide	Concentration_SIM_2	N	Specification of the carbon dioxide content for the calculation test	10354	Float	W	mol%
13.12.5	Ethane	Concentration_SIM_3	N	Specification of the ethane content for the calculation test	10356	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.12.6	Propane	Concentration_SIM_4	N	Specification of the propane content for the calculation test	10358	Float	W	mol%
13.12.7	iso-Butane	Concentration_SIM_5	N	Specification of the i-butane content for the calculation test	10360	Float	W	mol%
13.12.8	n-Butane	Concentration_SIM_6	N	Specification of the n-butane content for the calculation test	10362	Float	W	mol%
13.12.9	neo-Pentane	Concentration_SIM_7	N	Specification of the neopentane content for the calculation test	10364	Float	W	mol%
13.12.10	iso-Pentane	Concentration_SIM_8	N	Specification of the i-pentane content for the calculation test	10366	Float	W	mol%
13.12.11	n-Pentane	Concentration_SIM_9	N	Specification of the n-pentane content for the calculation test	10368	Float	W	mol%
13.12.12	C6+	Concentration_SIM_10	N	Specification of the C6+ content for the calculation test	10370	Float	W	mol%
13.12.13	n-Hexane	Concentration_SIM_11	N	Specification of the n-hexane content for the calculation test	10372	Float	W	mol%
13.12.14	n-Heptane	Concentration_SIM_12	N	Specification of the n-heptane content for the calculation test	10374	Float	W	mol%
13.12.15	n-Octane	Concentration_SIM_13	N	Specification of the n-octane content for the calculation test	10376	Float	W	mol%
13.12.16	n-Nonane	Concentration_SIM_14	N	Specification of the n-nonane content for the calculation test	10378	Float	W	mol%
13.12.17	Oxygen	Concentration_SIM_15	N	Specification of the oxygen content for the calculation test	10380	Float	W	mol%
13.12.18	Helium	Concentration_SIM_16	N	Specification of the helium content for the calculation test	10382	Float	W	mol%
13.12.19	Hydrogen	Concentration_SIM_17	N	Specification of the hydrogen content for the calculation test	10384	Float	W	mol%
13.12.20	Argon	Concentration_SIM_18	N	Specification of the argon content for the calculation test	10386	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.12.21	Methanol	Concentration_SIM_19	N	Specification of the methanol content for the calculation test	10388	Float	W	mol%
13.12.22	Hydrogensulfid	Concentration_SIM_20	N	Specification of the hydrogensulfid content for the calculation test	21742	Float	W	mol%
13.13.0	Test results	HEAD_13_13	A	-	1137	Titel	R	
13.13.1	New test calculation	CalcSim	N	If this mode is set to YES, a single test calculation is started. After the calculation, the mode is reset to NO.	1138	Menü	W	
13.13.2	Hs	Ho_SIM	A	Superior calorific value calculated from the specified gas composition as a test.	7258	Float	R	&UnitHs
13.13.3	Ws	Wo_SIM	A	Wobbe index calculated from the specified gas composition as a test.	7260	Float	R	&UnitHs
13.13.4	rho	Rhon_SIM	A	Standard density calculated from the specified gas composition as a test.	7262	Float	R	&UnitRhon
13.13.5	d	DV_SIM	A	Relative density calculated from the specified gas composition as a test.	7264	Float	R	
13.13.6	Hi	Hu_SIM	A	Inferior calorific value calculated from the specified gas composition as a test.	7266	Float	R	&UnitHs
13.13.7	Wi	Wu_SIM	A	Lower Wobbe index calculated from the specified gas composition as a test.	7268	Float	R	&UnitHs
13.13.8	Zn	Zn_SIM	A	Real gas factor calculated from the specified gas composition as a test.	7270	Float	R	
13.13.9	Mz	Mz_SIM	A	Methane number calculated from the specified gas composition as a test, calculated according to DIN EN 16726 2019	7272	Float	R	
13.13.10	Unnormalized sum	UnNormSum_SIM	A	Unnormalized sum calculated from the specified gas composition as a test.	7274	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.13.11	Column Component State 1	Component-State_SIM_0	A	Status of the first 16 measured/calculated components of the simulation each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2245	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
13.13.12	Column Component State 2	Component-State_SIM_1	A	Status of the second 16 measured/calculated components of the simulation each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2246	Integer	R	hex
13.14.0	Selection	HEAD_13_14	A	-	1640	Titel	R	
13.14.1	Methane number	MzMode	A	Setting for specifying whether the methane number is calculated. Calculation of the methane number is optional and is disabled by default for licensing reasons.	1641	Menü	R	
14.0.0	Gas analyzer unit	HEAD_14	A	-	1139	Titel	R	
14.0.1	Analyzer no.	CpSerialNumber	A	Display of the serial number of the measuring element. The display is only updated in the event of successful communication.	40000	?	R	
14.0.2	A. manufact. date	CpManufacturing-Date	A	Manufacturing date of the analyzer unit	3420	Unix-time	R	
14.0.3	Column Cartridge No.	CpCartridgeNumber	A	Serial number column cartridge	40008	?	R	
14.0.4	IP Address	CpIPAddress	E	TCP/IP address of the analyzer unit	5840	Text	W	
14.0.5	Analyzer type	CpType	A	Analyzer type	2076	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.0.6	PGC Component State 1	Component-State_Cp_0	A	Status of the first 16 measured/calculated components of the RGC7-M each 1=component/measured value is measured, 0=not measured - higher Calorific value =BIT-0 - lower Calorific value =BIT-1 - Wobbe Index =BIT-2 - Standard density =BIT-3 - Carbon dioxide =BIT-4 - Carbon monoxide =BIT-5 - Nitrogen =BIT-6 - Methane =BIT-7 - Ethane =BIT-8 - Propane =BIT-9 - N-butane =BIT-10 - I-Butan =BIT-11 - N-pentane =BIT-12 - I-Pentane =BIT-13 - Neo-pentane =BIT-14 - Hexan =BIT-15	2247	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.0.7	PGC Component State 2	Component-State_Cp_1	A	Status of the second 16 measured/calculated components of the RGC7-M each 1=component/measured value is measured, 0=not measured - Heptane =BIT-0 - Octane =BIT-1 - Nonan =BIT-2 - Dean =BIT-3 - Hydrogen =BIT-4 - Hydrogen sulphide =BIT-5 - Water =BIT-6 - Helium =BIT-7 - Oxygen =BIT-8 - Ethene =BIT-9 - Propene =BIT-10 - Argon =BIT-11 - free =BIT-12 - free =BIT-13 - free =BIT-14 - free =BIT-15	2248	Integer	R	hex
14.0.8	No. of injections	CpNumberOfRuns	A	Number of all measurements of the analyzer unit	3392	Long	R	
14.0.9	GC telegram counter	CpTelegram-Counter	A	Telegram counter between controller and analyzer unit	3394	Long	R	
14.0.10	Analyzer systemtime (UTC)	CpSystemTime	A	Analyzer Time (UTC time)	3422	Unix-time	R	
14.0.11	Analyzer poweruptime	CpStartupTime	A	Time of the start of the analyzer	3424	Unix-time	R	
14.0.12	Time difference	CpTimeDiff	A	Clock difference RGC 7-C -> RGC 7-M	3426	Long	R	s
14.0.13	Eventcodes rolling	CpRollingError-Code	A	Last 20 event numbers of the analyzer unit, in a alternating display	2294	Integer	R	
14.0.14	Event time	CpRollingErrorTime	A	Time of displayed Event	3428	Unix-time	R	
14.1.0	Parameter	HEAD_14_1	A	-	1143	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.1.1	Column operating mode	ColumnMode	E	The operating mode that is used to operate the PGC and that defines the device type is specified here. The setting options depend on the hardware configuration and cannot be changed during operation. Mode 1: Natural gas application, column assembly: 1-2-4 (C6+ totalizing)	1144	Menü	W	
14.1.2	Column enabling 1	ColumnEnable_0	A	Activates column module #1 of the RGC7-M. Pressure, temperature and status messages for this module are not updated until after activation.	1145	Menü	R	
14.1.3	Column enabling 2	ColumnEnable_1	A	Activates column module #2 of the RGC7-M. Pressure, temperature and status messages for this module are not updated until after activation.	1146	Menü	R	
14.1.4	Column enabling 3	ColumnEnable_2	A	Activates column module #3 of the RGC7-M. Pressure, temperature and status messages for this module are not updated until after activation.	1147	Menü	R	
14.1.5	Column enabling 4	ColumnEnable_3	A	Activates column module #3 of the RGC7-M. Pressure, temperature and status messages for this module are not updated until after activation.	1148	Menü	R	
14.1.6	Chrom-file	ChromFileMode	B	If this mode is set to GET, the chromatograms from the RGC7-C are loaded from the measuring element via 'file protocol'. The chromatograms require approx. 70 kB per analysis, 100 MB per day, 3.1 GB per month.	1140	Menü	W	
14.1.7	Chrom-file port	CustomProtocol-Port	A	IP-Port for the file protocol	1141	Integer	R	
14.1.8	Valve set value	FixedValve	E	The valve default must be set to AUTOMATIC in normal operation. The valve default switches automatic valve replacement OFF(!) and is only used in test mode. The selected valve is shown in black on the main screen.	2278	Menü	W	
14.1.9	Max. analyze time	MaxRunTime	E	Maximum total duration of an analysis (including flushing and injection). If no end of measurement is detected within this time, a fault is output.	1605	Integer	W	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.1.10	Max. pause time	MaxPauseTime	E	When half of the entered time has elapsed since the last completed analysis, a restart of the Sequence is performed. If the complete time entered has elapsed, the controller will initiate a restart of the measuring unit.	1875	Integer	W	min
14.1.11	Cal. after Ana-restart	KalAfterRestart	E	Should the controller start a calibration after each restart of the analyzer?	2022	Menü	W	
14.1.12	Waiting time after Ana-restart	WaitingTimeAfter-Restart	E	Time to wait after an analyzer restart until new analysis can be started.	2023	Integer	W	min
14.2.0	State	HEAD_14_2	A	-	1149	Titel	R	
14.2.1	Connect status	ConnectStatus	A	Indicates whether there is a connection to the measuring element (YES/NO).	1142	Menü	R	
14.2.2	Instrumnet state	InstrumentState	A	Status of the measuring element RGC7-M. - INITIALIZING: Initializing (startup of the system) - FLUSHING: Flushing - RUNNING: Measuring - STABILIZING: Warming up - READY: Ready for measurement - ERROR: Fault - RECOV_ERR: Fault during heating up phase - BROKEN: Device fault detected - NOT_READY: Not ready (internal test running) - WAIT_FOR_EXT_READY: Waiting for external start signal - CLEANING: Heating up phase	1150	Menü	R	
14.2.3	Instrument cycle	InstrumentCycle	A	Duration of last complete analysis	5860	Text	R	
14.2.4	Column state 1	ColumnState_0	A	Status Column Module 1 - OK: Ready - WAIT: Waiting until p and T are stable - OFF: Column module 1 not activated.	1151	Menü	R	
14.2.5	Column state 2	ColumnState_1	A	Status Column Module 2 - OK: Ready - WAIT: Waiting until p and T are stable - OFF: Column module 2 not activated.	1152	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.2.6	Column state 3	ColumnState_2	A	Status Column Module 3 - OK: Ready - WAIT: Waiting until p and T are stable - OFF: Column module 3 not activated.	1153	Menü	R	
14.2.7	Column state 4	ColumnState_3	A	Status Column Module 3 - OK: Ready - WAIT: Waiting until p and T are stable - OFF: Column module 3 not activated.	1154	Menü	R	
14.2.8	Column 1 stable	ColumnStable_0	A	composite status about the status of the column module: - Bit 0: Column stabilised - Bit 1: Injector stabilised - Bit 2: Carrier gas pressure Ok - Bit 3: TCD 1 stabilised - Bit 4: TCD 2 stabilised	2264	Integer	R	hex
14.2.9	Column 2 stable	ColumnStable_1	A	composite status about the status of the column module: - Bit 0: Column stabilised - Bit 1: Injector stabilised - Bit 2: Carrier gas pressure Ok - Bit 3: TCD 1 stabilised - Bit 4: TCD 2 stabilised	2265	Integer	R	hex
14.2.10	Column 3 stable	ColumnStable_2	A	composite status about the status of the column module: - Bit 0: Column stabilised - Bit 1: Injector stabilised - Bit 2: Carrier gas pressure Ok - Bit 3: TCD 1 stabilised - Bit 4: TCD 2 stabilised	2266	Integer	R	hex
14.2.11	Column 4 stable	ColumnStable_3	A	composite status about the status of the column module: - Bit 0: Column stabilised - Bit 1: Injector stabilised - Bit 2: Carrier gas pressure Ok - Bit 3: TCD 1 stabilised - Bit 4: TCD 2 stabilised	2267	Integer	R	hex
14.2.12	current runtime	CurrentRunning-Time	A	Runtime of the current analysis cycle	1165	Integer	R	s

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.2.13	Cabinet temperature	CabinetTemp	A	Temperature in measuring element housing	11198	Float	R	°C
14.2.14	Ambient pressure	AmbientPressure	A	Ambient Pressure (air pressure)	7276	Float	R	hPa
14.2.15	sequence state	StatusSequence	A	State of running sequence: IDLE - RUNNING - ABORTED - ERROR - PAUSED	1166	Menü	R	
14.2.16	analysis state	StatusAnalysis	A	State or running analysis: INIT - STABILIZATION - READY - ANALYSIS - ERROR	1167	Menü	R	
14.2.17	activated valve	ActiveValve	A	active valve in the gas analyzer unit	1168	Menü	R	
14.3.0	Column 1	HEAD_14_3	A	-	1155	Titel	R	
14.3.1	Col. temp. set val	SetColumnTemp_0	E	Set value for the column temperature in column module 1 (set with the method)	7280	Float	W	°C
14.3.2	Col. temperature	ColumnTemp_0	A	Actual value for the column temperature in column module 1 (current measured value)	7282	Float	R	°C
14.3.3	Injector temp.	InjectorTemp_0	A	Actual value for the injector temperature in column module 1 (current measured value)	7284	Float	R	°C
14.3.4	Column pressure	ColumnPressure_0	A	Actual value for the column pressure in column module 1 (current measured value)	7286	Float	R	bar
14.4.0	Column 2	HEAD_14_4	A	-	1156	Titel	R	
14.4.1	Col. temp. set val	SetColumnTemp_1	E	Set value for the column temperature in column module 2 (set with the method)	7288	Float	W	°C
14.4.2	Col. temperature	ColumnTemp_1	A	Actual value for the column temperature in column module 2 (current measured value)	7290	Float	R	°C
14.4.3	Injector temp.	InjectorTemp_1	A	Actual value for the injector temperature in column module 2 (current measured value)	7292	Float	R	°C
14.4.4	Column pressure	ColumnPressure_1	A	Actual value for the column pressure in column module 2 (current measured value)	7294	Float	R	bar
14.5.0	Column 3	HEAD_14_5	A	-	1157	Titel	R	
14.5.1	Col. temp. set val	SetColumnTemp_2	E	Set value for the column temperature in column module 3 (set with the method)	7296	Float	W	°C
14.5.2	Col. temperature	ColumnTemp_2	A	Actual value for the column temperature in column module 3 (current measured value)	7298	Float	R	°C

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.5.3	Injector temp.	InjectorTemp_2	A	Actual value for the injector temperature in column module 3 (current measured value)	7300	Float	R	°C
14.5.4	Column pressure	ColumnPressure_2	A	Actual value for the column pressure in column module 3 (current measured value)	7302	Float	R	bar
14.6.0	Column 4	HEAD_14_6	A	-	1158	Titel	R	
14.6.1	Col. temp. set val	SetColumnTemp_3	E	Set value for the column temperature in column module 3 (set with the method)	7304	Float	W	°C
14.6.2	Col. temperature	ColumnTemp_3	A	Actual value for the column temperature in column module 4 (current measured value)	7306	Float	R	°C
14.6.3	Injector temp.	InjectorTemp_3	A	Actual value for the injector temperature in column module 4 (current measured value)	7308	Float	R	°C
14.6.4	Column pressure	ColumnPressure_3	A	Actual value for the column pressure in column module 3 (current measured value)	7310	Float	R	bar
14.7.0	Peaks	HEAD_14_7	A	-	1159	Titel	R	
14.7.1	column-1 total	NumberPeaks_0	A	Number of peaks found in the chromatogram of column module 1 during the last measurement	1161	Integer	R	peaks
14.7.2	column-2 total	NumberPeaks_1	A	Number of peaks found in the chromatogram of column module 2 during the last measurement	1162	Integer	R	peaks
14.7.3	column-3 total	NumberPeaks_2	A	Number of peaks found in the chromatogram of column module 3 during the last measurement	1163	Integer	R	peaks
14.7.4	column-4 total	NumberPeaks_3	A	Number of peaks found in the chromatogram of column module 3 during the last measurement	1164	Integer	R	peaks
14.8.0	Sample gas pressure	HEAD_14_8	A	-	1169	Titel	R	
14.8.1	Pres. act. Stream	SampleGas	A	Pressure of the gas currently being measured (measuring gas, calibration gas or reference gas)	7314	Float	R	bar
14.8.2	Pres. ref. gas	PSensors_0	A	Sample gas pressure sensor 1	7534	Float	R	bar
14.8.3	Pres. stream 2	PSensors_1	A	Sample gas pressure sensor 2	7536	Float	R	bar
14.8.4	Pres. stream 1	PSensors_2	A	Sample gas pressure sensor 3	7538	Float	R	bar
14.8.5	Pres. cal. gas	PSensors_3	A	Sample gas pressure sensor 4	7540	Float	R	bar

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.8.6	Start value	SampleGasMin	E	Lower adjustment limit for the current input used for the pressure of the measured gas (normally the pressure for an input current of 4 mA).	7316	Float	W	bar
14.8.7	End value	SampleGasMax	E	Upper adjustment limit for the current input used for the pressure of the measured gas (normally the pressure for an input current of 20 mA).	7318	Float	W	bar
14.8.8	Set value	SampleGasSetVal	E	Value set in the factory for the pressure of the gas currently being measured	7320	Float	W	bar
14.8.9	Max. deviation	SampleGasDev	E	Maximum permissible deviation for the pressure of the gas currently being measured. If the value is exceeded, an alarm is triggered and no further analysis is started.	7322	Float	W	%
14.8.10	Mode	SampleGasMode	E	Operating mode of the current input used for the pressure of the gas currently being measured.	1170	Menü	W	
14.8.11	Source	SampleGasSource	E	Selection of the current input for the pressure of the gas currently being measured. Check the setting for the corresponding current input as well.	1171	Menü	W	
14.8.12	Damping	SampleGasDamping	E	Damping setting for sample gas pressure monitoring	2601	Integer	W	
14.9.0	Carrier gas I	HEAD_14_9	A	-	1172	Titel	R	
14.9.1	Pressure	CarrierGas_0	A	Input pressure of carrier gas 1 (helium)	7324	Float	R	bar
14.9.2	Start value	CarrierGasMin_0	E	Lower adjustment limit for the current input used for the pressure of carrier gas 1 (normally the pressure for an input current of 4 mA).	7326	Float	W	bar
14.9.3	End value	CarrierGasMax_0	E	Upper adjustment limit for the current input used for the pressure of carrier gas 1 (normally the pressure for an input current of 20 mA).	7328	Float	W	bar
14.9.4	Set value	CarrierGasSetVal_0	E	Value set in the factory for the pressure of carrier gas 1	7330	Float	W	bar
14.9.5	Max. deviation	CarrierGasDev_0	E	Maximum permissible deviation for the pressure of carrier gas 1. If the value is exceeded, an alarm is triggered and no further analysis is started.	7332	Float	W	%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
14.9.6	Mode	CarrierGasMode_0	E	Operating mode of the current input used for the pressure of carrier gas 1.	1173	Menü	W	
14.9.7	Source	CarrierGas-Source_0	E	Selection of the current input for the pressure of carrier gas 1. Check the setting for the corresponding current input as well.	1174	Menü	W	
14.10.0	Carrier gas II	HEAD_14_10	A	-	1175	Titel	R	
14.10.1	Pressure	CarrierGas_1	A	Input pressure of carrier gas 2 (argon, if available)	7334	Float	R	bar
14.10.2	Start value	CarrierGasMin_1	E	Lower adjustment limit for the current input used for the pressure of carrier gas 2 (normally the pressure for an input current of 4 mA).	7336	Float	W	bar
14.10.3	End value	CarrierGasMax_1	E	Upper adjustment limit for the current input used for the pressure of carrier gas 2 (normally the pressure for an input current of 20 mA).	7338	Float	W	bar
14.10.4	Set value	CarrierGasSetVal_1	E	Value set in the factory for the pressure of carrier gas 2	7340	Float	W	bar
14.10.5	Max. deviation	CarrierGasDev_1	E	Maximum permissible deviation for the pressure of carrier gas 2. If the value is exceeded, an alarm is triggered and no further analysis is started.	7342	Float	W	%
14.10.6	Mode	CarrierGasMode_1	E	Operating mode of the current input used for the pressure of carrier gas 2.	1176	Menü	W	
14.10.7	Source	CarrierGas-Source_1	E	Selection of the current input for the pressure of carrier gas 2. Check the setting for the corresponding current input as well.	1177	Menü	W	
14.11.0	Bake out	HEAD_14_11	A	-	1948	Titel	R	
14.11.1	Bake out duration	BakeOutDuration	B	Duration of the bake out process. Inclusive baking out, cooling down and equilibrating.	1949	Integer	W	min
14.11.2	Bake out remaining time	BakeOutTimeToEnd	P	Remaining time till finishing the bake out.	1967	Integer	R	min
14.11.3	column 1 temp.	BakeOutColumn-Temp_0	E	Column temperature of column 1 for bake-out	21260	Float	W	°C
14.11.4	column 2 temp.	BakeOutColumn-Temp_1	E	Column temperature of column 2 for bake-out	21262	Float	W	°C
14.11.5	column 3 temp.	BakeOutColumn-Temp_2	E	Column temperature of column 3 for bake-out	21264	Float	W	°C

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
14.11.6	column 4 temp.	BakeOutColumn-Temp_3	E	Column temperature of column 4 for bake-out	21266	Float	W	°C
14.11.7	column 1 press.	BakeOutColumn-Press_0	P	Column pressure of column 1 for bake-out	21268	Float	R	bar
14.11.8	column 2 press.	BakeOutColumn-Press_1	P	Column pressure of column 2 for bake-out	21270	Float	R	bar
14.11.9	column 3 press.	BakeOutColumn-Press_2	P	Column pressure of column 3 for bake-out	21272	Float	R	bar
14.11.10	column 4 press.	BakeOutColumn-Press_3	P	Column pressure of column 4 for bake-out	21274	Float	R	bar
15.0.0	In- and Outputs	HEAD_15	A	-	1178	Titel	R	
15.1.0	Input Current 1	HEAD_15_1	A	-	1179	Titel	R	
15.1.1	operating mode	IInMode_0	E	Operating mode current input 1 Rear panel terminal X5 - 1,2 Polarity depends on 'Power Supply' mode (OFF: 1+,2-, ON: 1-,2+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1180	Menü	W	
15.1.2	Current	IInCal_0	A	Calibrated measured value current input 1 Rear panel terminal X5 - 1,2 Polarity depends on 'Power Supply' mode (OFF: 1+,2-, ON: 1-,2+) The corresponding adjustment values are taken into account.	7344	Float	R	mA
15.1.3	Current uncalibrated	IInUncal_0	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7346	Float	R	mA
15.1.4	ADC Binary value	IInADResult_0	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3010	Long	R	
15.1.5	Lower calib. val	IInCalLow_0	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7348	Float	W	mA
15.1.6	Upper calib. val	IInCalHigh_0	E	Adjustment value for the upper limit of the measuring range (20 mA). This value is not displayed in the user profile USER.	7350	Float	W	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.1.7	Supply voltage	IInSupply_0	E	Power supply of current input 1 Rear panel terminal X5 - 1,2 OFF: 1+,2- Sensor has a separate power supply ON: 1-,2+ Sensor is actively supplied with 24 V by the RGC7-C.	1181	Menü	W	
15.1.8	ADC error	IInError_0	A	Fault status current input 1 Rear panel terminal X5 - 1,2 OK: Analog/digital converter within measuring range FAULT: Analog/digital converter outside of measuring range.	1182	Menü	R	
15.2.0	Input Current 2	HEAD_15_2	A	-	1183	Titel	R	
15.2.1	operating mode	IInMode_1	E	Operating mode current input 2 Rear panel terminal X5 - 3,4 Polarity depends on 'Power Supply' mode (OFF: 3+,4-, ON: 3-,4+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1184	Menü	W	
15.2.2	Current	IInCal_1	A	Calibrated measured value current input 2 Rear panel terminal X5 - 3,4 Polarity depends on 'Power Supply' mode (OFF: 3+,4-, ON: 3-,4+) The corresponding adjustment values are taken into account.	7352	Float	R	mA
15.2.3	Current uncalibrated	IInUncal_1	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7354	Float	R	mA
15.2.4	ADC Binary value	IInADResult_1	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3012	Long	R	
15.2.5	Lower calib. val	IInCalLow_1	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7356	Float	W	mA
15.2.6	Upper calib. val	IInCalHigh_1	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7358	Float	W	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.2.7	Supply voltage	IInSupply_1	E	Power supply of current input 2 Rear panel terminal X5 - 3,4 - OFF: 3+,4- Sensor has a separate power supply - ON: 3-,4+ Sensor is actively supplied with 24 V by the RGC7-C.	1185	Menü	W	
15.2.8	ADC error	IInError_1	A	Fault status current input 2 Rear panel terminal X5 - 3,4 - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1186	Menü	R	
15.3.0	Input Current 3	HEAD_15_3	A	-	1187	Titel	R	
15.3.1	operating mode	IInMode_2	E	Operating mode current input 3 Rear panel terminal X5 - 5,6 Polarity depends on 'Power Supply' mode (OFF: 5+,6-, ON: 5-,6+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1188	Menü	W	
15.3.2	Current	IInCal_2	A	Calibrated measured value current input 3 Rear panel terminal X5 - 5,6 Polarity depends on 'Power Supply' mode (OFF: 5+,6-, ON: 5-,6+) The corresponding adjustment values are taken into account.	7360	Float	R	mA
15.3.3	Current uncalibrated	IInUncal_2	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7362	Float	R	mA
15.3.4	ADC Binary value	IInADResult_2	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3014	Long	R	
15.3.5	Lower calib. val	IInCalLow_2	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7364	Float	W	mA
15.3.6	Upper calib. val	IInCalHigh_2	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7366	Float	W	mA
15.3.7	Supply voltage	IInSupply_2	E	Power supply of current input 3 Rear panel terminal X5 - 5,6 - OFF: 5+,6- Sensor has a separate power supply - ON: 5-,6+ Sensor is actively supplied with 24 V by the RGC7-C.	1189	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.3.8	ADC error	IInError_2	A	Fault status current input 3 Rear panel terminal X5 - 5,6 - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1190	Menü	R	
15.4.0	Input Current 4	HEAD_15_4	A	-	1191	Titel	R	
15.4.1	operating mode	IInMode_3	E	Operating mode current input 4 Rear panel terminal X6 - 1,2 Polarity depends on 'Power Supply' mode (OFF: 1+,2-, ON: 1-,2+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1192	Menü	W	
15.4.2	Current	IInCal_3	A	Calibrated measured value current input 4 Rear panel terminal X6 - 1,2 Polarity depends on 'Power Supply' mode (OFF: 1+,2-, ON: 1-,2+) The corresponding adjustment values are taken into account.	7368	Float	R	mA
15.4.3	Current uncalibrated	IInUncal_3	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7370	Float	R	mA
15.4.4	ADC Binary value	IInADResult_3	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3016	Long	R	
15.4.5	Lower calib. val	IInCalLow_3	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7372	Float	W	mA
15.4.6	Upper calib. val	IInCalHigh_3	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7374	Float	W	mA
15.4.7	Supply voltage	IInSupply_3	E	Power supply of current input 4 Rear panel terminal X6 - 1,2 - OFF: 1+,2- Sensor has a separate power supply - ON: 1-,2+ Sensor is actively supplied with 24 V by the RGC7-C.	1193	Menü	W	
15.4.8	ADC error	IInError_3	A	Fault status current input 4 Rear panel terminal X6 - 1,2 - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1194	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.5.0	Input Current 5	HEAD_15_5	A	-	1195	Titel	R	
15.5.1	operating mode	IInMode_4	E	Operating mode current input 5 Rear panel terminal X6 - 3,4 Polarity depends on 'Power Supply' mode (OFF: 3+,4-, ON: 3-,4+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1196	Menü	W	
15.5.2	Current	IInCal_4	A	Calibrated measured value current input 5 Rear panel terminal X6 - 3,4 Polarity depends on 'Power Supply' mode (OFF: 3+,4-, ON: 3-,4+) The corresponding adjustment values are taken into account.	7376	Float	R	mA
15.5.3	Current uncalibrated	IInUncal_4	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7378	Float	R	mA
15.5.4	ADC Binary value	IInADResult_4	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3018	Long	R	
15.5.5	Lower calib. val	IInCalLow_4	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7380	Float	W	mA
15.5.6	Upper calib. val	IInCalHigh_4	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7382	Float	W	mA
15.5.7	Supply voltage	IInSupply_4	E	Power supply of current input 5 Rear panel terminal X6 - 3,4 - OFF: 3+,4- Sensor has a separate power supply - ON: 3-,4+ Sensor is actively supplied with 24 V by the RGC7-C.	1197	Menü	W	
15.5.8	ADC error	IInError_4	A	Fault status current input 5 Rear panel terminal X6 - 3,4 - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1198	Menü	R	
15.6.0	Input Current 6	HEAD_15_6	A	-	1199	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.6.1	operating mode	IInMode_5	E	Operating mode current input 6 Rear panel terminal X6 - 5,6 Polarity depends on 'Power Supply' mode (OFF: 5+,6-, ON: 5-,6+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1200	Menü	W	
15.6.2	Current	IInCal_5	A	Calibrated measured value current input 6 Rear panel terminal X6 - 5,6 Polarity depends on 'Power Supply' mode (OFF: 5+,6-, ON: 5-,6+) The corresponding adjustment values are taken into account.	7384	Float	R	mA
15.6.3	Current uncalibrated	IInUncal_5	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7386	Float	R	mA
15.6.4	ADC Binary value	IInADResult_5	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3020	Long	R	
15.6.5	Lower calib. val	IInCalLow_5	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7388	Float	W	mA
15.6.6	Upper calib. val	IInCalHigh_5	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7390	Float	W	mA
15.6.7	Supply voltage	IInSupply_5	E	Power supply of current input 6 Rear panel terminal X6 - 5,6 - OFF: 5+,6- Sensor has a separate power supply - ON: 5-,6+ Sensor is actively supplied with 24 V by the RGC7-C.	1201	Menü	W	
15.6.8	ADC error	IInError_5	A	Fault status current input 6 Rear panel terminal X6 - 5,6 - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1202	Menü	R	
15.7.0	Input Current 7	HEAD_15_7	A	-	1203	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.7.1	operating mode	IInMode_6	E	Operating mode current input 7 (optional) Rear panel terminal X6 - 7,8 (Note: only available if X23 1+3,2+4 is bridged inside the device) Polarity depends on 'Power Supply' mode (OFF: 7+,8-, ON: 7-,8+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1204	Menü	W	
15.7.2	Current	IInCal_6	A	Calibrated measured value current input 7 (optional) Rear panel terminal X6 - 7,8 (Note: only available if X23 1+3,2+4 is bridged inside the device) Polarity depends on 'Power Supply' mode (OFF: 7+,8-, ON: 7-,8+) The corresponding adjustment values are taken into account.	7392	Float	R	mA
15.7.3	Current uncalibrated	IInUncal_6	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7394	Float	R	mA
15.7.4	ADC Binary value	IInADResult_6	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3092	Long	R	
15.7.5	Lower calib. val	IInCalLow_6	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7396	Float	W	mA
15.7.6	Upper calib. val	IInCalHigh_6	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7398	Float	W	mA
15.7.7	Supply voltage	IInSupply_6	E	Power supply of current input 7 (optional) Rear panel terminal X6 - 7,8 (Note: only available if X23 1+3,2+4 is bridged inside the device) OFF: 7+,8- Sensor has a separate power supply ON: 7-,8+ Sensor is actively supplied with 24 V by the RGC7-C.	1205	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.7.8	ADC error	IInError_6	A	Fault status current input 7 (optional) Rear panel terminal X6 7,8 (Note: only available if X23 1+3,2+4 is bridged inside the device) OK: Analog/digital converter within measuring range FAULT: Analog/digital converter outside of measuring range.	1206	Menü	R	
15.8.0	Input Current 8	HEAD_15_8	A	-	1207	Titel	R	
15.8.1	operating mode	IInMode_7	E	Operating mode current input 8 (optional) Rear panel terminal X6 - 9,10 (Note: only available if X45 1+3,2+4 is bridged inside the device) Polarity depends on 'Power Supply' mode (OFF: 9+,10-, ON: 9-,10+) In 'OFF' operating mode, faults are suppressed and the measured value is set to 0.	1208	Menü	W	
15.8.2	Current	IInCal_7	A	Calibrated measured value current input 8 (optional) Rear panel terminal X6 - 9,10 (Note: only available if X45 1+3,2+4 is bridged inside the device) Polarity depends on 'Power Supply' mode (OFF: 9+,10-, ON: 9-,10+) The corresponding adjustment values are taken into account.	7400	Float	R	mA
15.8.3	Current uncalibrated	IInUncal_7	A	Display of the uncorrected input current (without use of the adjustment values). This value is not displayed in the user profile USER.	7402	Float	R	mA
15.8.4	ADC Binary value	IInADResult_7	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3024	Long	R	
15.8.5	Lower calib. val	IInCalLow_7	E	Adjustment value for the lower limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7404	Float	W	mA
15.8.6	Upper calib. val	IInCalHigh_7	E	Adjustment value for the upper limit of the measuring range (4 mA). This value is not displayed in the user profile USER.	7406	Float	W	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.8.7	Supply voltage	IInSupply_7	E	Power supply of current input 8 (optional) Rear panel terminal X6 - 9,10 (Note: only available if X45 1+3,2+4 is bridged inside the device) - OFF: 9+,10- Sensor has a separate power supply - ON: 9-,10+ Sensor is actively supplied with 24 V by the RGC7-C.	1209	Menü	W	
15.8.8	ADC error	IInError_7	A	Fault status current input 8 (optional) Rear panel terminal X6 - 9,10 (Note: only available if X45 1+3,2+4 is bridged inside the device) - OK: Analog/digital converter within measuring range - FAULT: Analog/digital converter outside of measuring range.	1210	Menü	R	
15.9.0	Current output 1	HEAD_15_9	A	-	1211	Titel	R	
15.9.1	Current output	IOut_0	A	Value current output 1 Rear panel terminal X4 - 1,2 Currently output current in mA (is either the calculated value or the default value depending on the setting for the Operating Mode parameter).	7408	Float	R	mA
15.9.2	Physical value	IOutPhysValue_0	A	Physical value assigned to current output 1. Rear panel terminal X4 - 1,2 The value that was defined under the 'Select' parameter in the form of the Modbus address is displayed.	7410	Float	R	
15.9.3	Physical min. value	IOutPhysMin_0	B	Physical minimum value current output 1 Rear panel terminal X4 - 1,2 Defines the start of the measuring range of the selected physical measured variable and is output as a current of 0/4 mA.	7412	Float	W	
15.9.4	Physical max. value	IOutPhysMax_0	B	Physical maximum value current output 1 Rear panel terminal X4 - 1,2 Defines the end of the measuring range of the selected physical measured variable and is output as a current of 20 mA.	7414	Float	W	
15.9.5	Unit of phys. value	IOutPhysUnit_0	A	Unit physical value current output 1 Rear panel terminal X4 - 1,2 The unit for the physical value that is defined under the 'Select' parameter in the form of the Modbus address is displayed.	5280	Text	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.9.6	Set value	IOutSetValue_0	B	Default value current output 1 Rear panel terminal X4 - 1,2 The default value is used if the operating mode is set to 'DEFAULT'. Note: The maximum value of 25 mA cannot normally be output. This value can be set for testing purposes. A typical max. value is 21 .. 22 mA.	7416	Float	W	mA
15.9.7	Mode	IOutMode_0	B	Operating mode current output 1 Rear panel terminal X4 - 1,2 - DEFAULT: Value of 'Default Value' parameter is output. - 0-20mA / 4-20mA: Current output range. - CAL_4mA / CAL_20mA: Output calibration current 4/20 mA, - OFF: Current output deactivated (0 mA)	1212	Menü	W	
15.9.8	off-limit condition	IOutFaultMode_0	B	Response to limit value violation current output 1 Rear panel terminal X4 - 1,2 - FAULT: If the current value falls short of/exceeds 0/4 mA or 20 mA, an alarm message is output - WARNING: If the current value falls short of/exceeds 0/4 mA or 20 mA, a warning is output.	1213	Menü	W	
15.9.9	Selection	IOutSelect_0	B	Selection of Modbus address for current output 1 Rear panel terminal X4 - 1,2 Modbus address of the parameter that is selected as a physical value for output as current (only if the 'Operating Mode' parameter is set to '0-20MA' or '4-20MA').	1214	Integer	W	Reg
15.9.10	Selection text 1	IOutSelectHead_0	A	Display text 1 for current output 1 Rear panel terminal X4 - 1,2 Heading text for the physical value that is defined under 'Select' via the Modbus address.	5300	Text	R	
15.9.11	Selection text 2	IOutSelectName_0	A	Display text 2 for current output 1 Rear panel terminal X4 - 1,2 Name of the physical value that is defined under Select via the Modbus address.	5320	Text	R	
15.9.12	Lower calib. val	IOutCalLow_0	E	Adjustment value for the lower limit of the output range (4 mA). This value is not displayed in the user profile USER.	7418	Float	W	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.9.13	Upper calib. val	IOutCalHigh_0	E	Adjustment value for the upper limit of the output range (20 mA). This value is not displayed in the user profile USER.	7420	Float	W	mA
15.10.0	Current output 2	HEAD_15_10	A	-	1215	Titel	R	
15.10.1	Current output	IOut_1	A	Value current output 2 Rear panel terminal X4 - 3,4 Currently output current in mA (is either the calculated value or the default value depending on the setting for the Operating Mode parameter).	7422	Float	R	mA
15.10.2	Physical value	IOutPhysValue_1	A	Physical value assigned to current output 2. Rear panel terminal X4 - 3,4 The value that was defined under the 'Select' parameter in the form of the Modbus address is displayed.	7424	Float	R	
15.10.3	Physical min. value	IOutPhysMin_1	B	Physical minimum value current output 2 Rear panel terminal X4 - 3,4 Defines the start of the measuring range of the selected physical measured variable and is output as a current of 0/4 mA.	7426	Float	W	
15.10.4	Physical max. value	IOutPhysMax_1	B	Physical maximum value current output 2 Rear panel terminal X4 - 3,4 Defines the end of the measuring range of the selected physical measured variable and is output as a current of 20 mA.	7428	Float	W	
15.10.5	Unit of phys. value	IOutPhysUnit_1	A	Unit physical value current output 2 Rear panel terminal X4 - 3,4 The unit for the physical value that is defined under the 'Select' parameter in the form of the Modbus address is displayed.	5340	Text	R	
15.10.6	Set value	IOutSetValue_1	B	Default value current output 2 Rear panel terminal X4 - 3,4 The default value is used if the operating mode is set to 'DEFAULT'. Note: The maximum value of 25 mA cannot normally be output. This value can be set for testing purposes. A typical max. value is 21 .. 22 mA.	7430	Float	W	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.10.7	Mode	IOutMode_1	B	Operating mode current output 1 Rear panel terminal X4 - 1,2 - DEFAULT: Value of 'Default Value' parameter is output. - 0-20mA / 4-20mA: Current output range. - CAL_4mA / CAL_20mA: Output calibration current 4/20 mA, - OFF: Current output deactivated (0 mA)	1216	Menü	W	
15.10.8	off-limit condition	IOutFaultMode_1	B	Response to limit value violation current output 2 Rear panel terminal X4 - 3,4 - FAULT: If the current value falls short of/exceeds 0/4 mA or 20 mA, an alarm message is output - WARNING: If the current value falls short of/exceeds 0/4 mA or 20 mA, a warning is output	1217	Menü	W	
15.10.9	Selection	IOutSelect_1	B	Selection of Modbus address for current output 2 Rear panel terminal X4 - 3,4 Modbus address of the parameter that is selected as a physical value for output as current (only if the 'Operating Mode' parameter is set to '0-20mA' or '4-20mA').	1218	Integer	W	Reg
15.10.10	Selection text 1	IOutSelectHead_1	A	Display text 1 for current output 2 Rear panel terminal X4 - 3,4 Heading text for the physical value that is defined under 'Select' via the Modbus address.	5360	Text	R	
15.10.11	Selection text 2	IOutSelectName_1	A	Display text 2 for current output 2 Rear panel terminal X4 - 3,4 Name of the physical value that is defined under Select via the Modbus address.	5380	Text	R	
15.10.12	Lower calib. val	IOutCalLow_1	E	Adjustment value for the lower limit of the output range (4 mA). This value is not displayed in the user profile USER.	7432	Float	W	mA
15.10.13	Upper calib. val	IOutCalHigh_1	E	Adjustment value for the upper limit of the output range (20 mA). This value is not displayed in the user profile USER.	7434	Float	W	mA
15.11.0	Current output 3	HEAD_15_11	A	-	1219	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.11.1	Current output	IOut_2	A	Value current output 3 Rear panel terminal X4 - 5,6 Currently output current in mA (is either the calculated value or the default value depending on the setting for the Operating Mode parameter).	7436	Float	R	mA
15.11.2	Physical value	IOutPhysValue_2	A	Physical value assigned to current output 3. Rear panel terminal X4 - 5,6 The value that was defined under the 'Select' parameter in the form of the Modbus address is displayed.	7438	Float	R	
15.11.3	Physical min. value	IOutPhysMin_2	B	Physical minimum value current output 3 Rear panel terminal X4 - 5,6 Defines the start of the measuring range of the selected physical measured variable and is output as a current of 0/4 mA.	7440	Float	W	
15.11.4	Physical max. value	IOutPhysMax_2	B	Physical maximum value current output 3 Rear panel terminal X4 - 5,6 Defines the end of the measuring range of the selected physical measured variable and is output as a current of 20 mA.	7442	Float	W	
15.11.5	Unit of phys. value	IOutPhysUnit_2	A	Unit physical value current output 3 Rear panel terminal X4 - 5,6 The unit for the physical value that is defined under the 'Select' parameter in the form of the Modbus address is displayed.	5400	Text	R	
15.11.6	Set value	IOutSetValue_2	B	Default value current output 3 Rear panel terminal X4 - 5,6 The default value is used if the operating mode is set to 'DEFAULT'. Note: The maximum value of 25 mA cannot normally be output. This value can be set for testing purposes. A typical max. value is 21 .. 22 mA.	7444	Float	W	mA
15.11.7	Mode	IOutMode_2	B	Operating mode current output 3 Rear panel terminal X4 - 5,6 - DEFAULT: Value of 'Default Value' parameter is output. - 0-20MA / 4-20MA: Current output range. - CAL_4MA / CAL_20MA: Output calibration current 4/20 mA, - OFF: Current output deactivated (0 mA)	1220	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.11.8	off-limit condition	IOutFaultMode_2	B	Response to limit value violation current output 3 Rear panel terminal X4 - 5,6 - FAULT: If the current value falls short of/exceeds 0/4 mA or 20 mA, an alarm message is output - WARNING: If the current value falls short of/exceeds 0/4 mA or 20 mA, a warning is output.	1221	Menü	W	
15.11.9	Selection	IOutSelect_2	B	Selection of Modbus address for current output 3 Rear panel terminal X4 - 5,6 Modbus address of the parameter that is selected as a physical value for output as current (only if the 'Operating Mode' parameter is set to '0-20MA' or '4-20MA').	1222	Integer	W	Reg
15.11.10	Selection text 1	IOutSelectHead_2	A	Display text 1 for current output 3 Rear panel terminal X4 - 5,6 Heading text for the physical value that is defined under 'Select' via the Modbus address.	5420	Text	R	
15.11.11	Selection text 2	IOutSelectName_2	A	Display text 2 for current output 3 Rear panel terminal X4 - 5,6 Name of the physical value that is defined under Select via the Modbus address.	5440	Text	R	
15.11.12	Lower calib. val	IOutCalLow_2	E	Adjustment value for the lower limit of the output range (4 mA). This value is not displayed in the user profile USER.	7446	Float	W	mA
15.11.13	Upper calib. val	IOutCalHigh_2	E	Adjustment value for the upper limit of the output range (20 mA). This value is not displayed in the user profile USER.	7448	Float	W	mA
15.12.0	Current output 4	HEAD_15_12	A	-	1223	Titel	R	
15.12.1	Current output	IOut_3	A	Value current output 4 Rear panel terminal X4 - 7,8 Currently output current in mA (is either the calculated value or the default value depending on the setting for the Operating Mode parameter).	7450	Float	R	mA
15.12.2	Physical value	IOutPhysValue_3	A	Physical value assigned to current output 4. Rear panel terminal X4 - 7,8 The value that was defined under the 'Select' parameter in the form of the Modbus address is displayed.	7452	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.12.3	Physical min. value	IOutPhysMin_3	B	Physical minimum value current output 4 Rear panel terminal X4 - 7,8 Defines the start of the measuring range of the selected physical measured variable and is output as a current of 0/4 mA.	7454	Float	W	
15.12.4	Physical max. value	IOutPhysMax_3	B	Physical maximum value current output 4 Rear panel terminal X4 - 7,8 Defines the end of the measuring range of the selected physical measured variable and is output as a current of 20 mA.	7456	Float	W	
15.12.5	Unit of phys. value	IOutPhysUnit_3	A	Unit physical value current output 4 Rear panel terminal X4 - 7,8 The unit for the physical value that is defined under the 'Select' parameter in the form of the Modbus address is displayed.	5460	Text	R	
15.12.6	Set value	IOutSetValue_3	B	Default value current output 4 Rear panel terminal X4 - 7,8 The default value is used if the operating mode is set to 'DEFAULT'. Note: The maximum value of 25 mA cannot normally be output. This value can be set for testing purposes. A typical max. value is 21 .. 22 mA.	7458	Float	W	mA
15.12.7	Mode	IOutMode_3	B	Operating mode current output 4 Rear panel terminal X4 - 7,8 - DEFAULT: Value of 'Default Value' parameter is output. - 0-20mA / 4-20mA: Current output range. - CAL_4mA / CAL_20mA: Output calibration current 4/20 mA, - OFF: Current output deactivated (0 mA)	1224	Menü	W	
15.12.8	off-limit condition	IOutFaultMode_3	B	Response to limit value violation current output 4 Rear panel terminal X4 - 7,8 - FAULT: If the current value falls short of/exceeds 0/4 mA or 20 mA, an alarm message is output - WARNING: If the current value falls short of/exceeds 0/4 mA or 20 mA, a warning is output	1225	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.12.9	Selection	IOutSelect_3	B	Selection of Modbus address for current output 4 Rear panel terminal X4 - 7,8 Modbus address of the parameter that is selected as a physical value for output as current (only if the 'Operating Mode' parameter is set to '0-20mA' or '4-20mA').	1226	Integer	W	Reg
15.12.10	Selection text 1	IOutSelectHead_3	A	Display text 1 for current output 4 Rear panel terminal X4 - 7,8 Heading text for the physical value that is defined under 'Select' via the Modbus address.	5480	Text	R	
15.12.11	Selection text 2	IOutSelectName_3	A	Display text 2 for current output 4 Rear panel terminal X4 - 7,8 Name of the physical value that is defined under Select via the Modbus address.	5500	Text	R	
15.12.12	Lower calib. val	IOutCalLow_3	E	Adjustment value for the lower limit of the output range (4 mA). This value is not displayed in the user profile USER.	7460	Float	W	mA
15.12.13	Upper calib. val	IOutCalHigh_3	E	Adjustment value for the upper limit of the output range (20 mA). This value is not displayed in the user profile USER.	7462	Float	W	mA
15.13.0	Temperature 1	HEAD_15_13	A	-	1227	Titel	R	
15.13.1	Temperature-1	Temperature_0	A	Calibrated measured value temperature 1 Rear panel terminal X5 - 7,8,9,10 The corresponding adjustment values are taken into account.	7464	Float	R	°C
15.13.2	Sensor element	TempSensorType_0	E	Transmitter type temperature 1 Rear panel terminal X5 - 7,8,9,10 Transmitter configuration: PT100, PT1000: Transmitter type DEFAULT: The Default Value parameter is used. Transmitter type DIGITAL: The temperature sensor of the measuring unit, digital transmission, is used	1228	Menü	W	
15.13.3	open circuit	OpenCircuitMonitor_0	E	Open circuit of temperature 1 Rear panel terminal X5 - 7,8,9,10 - OFF: Open circuit detection is deactivated - ON: Open circuit detection is activated.	1229	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.13.4	ADC error	TempError_0	A	Fault status temperature input 1 Rear panel terminal X5 - 7,8,9,10 - OK: Analog/digital converter within measuring range - ERROR: Analog/digital converter outside of measuring range.	1230	Menü	R	
15.13.5	ADC binary value	TempADResult_0	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3026	Long	R	
15.13.6	R uncalibrated	OhmUncal_0	A	Display of the uncorrected resistance measured value (without use of the adjustment values). This value is not displayed in the user profile USER.	7466	Float	R	Ohm
15.13.7	R calibrated	OhmCal_0	A	Display of the corrected resistance measured value (with use of the adjustment values). This value is not displayed in the user profile USER.	7468	Float	R	Ohm
15.13.8	Temp. uncalibrated	TempUncal_0	A	Display of the uncorrected temperature (without use of the adjustment values). This value is not displayed in the user profile USER.	7470	Float	R	°C
15.13.9	PT100 lower cal val	TempCalLow100_0	E	Adjustment value for the lower limit of the measuring range (for measurement with PT 100). This value is not displayed in the user profile USER.	7472	Float	W	°C
15.13.10	PT100 upper cal val	TempCalHigh100_0	E	Adjustment value for the upper limit of the measuring range (for measurement with PT 100). This value is not displayed in the user profile USER.	7474	Float	W	°C
15.13.11	PT1000 lower cal val	TempCalLow500_0	E	Adjustment value for the lower limit of the measuring range (for measurement with PT 1000). This value is not displayed in the user profile USER.	7476	Float	W	°C
15.13.12	PT1000 upper cal val	TempCalHigh500_0	E	Adjustment value for the upper limit of the measuring range (for measurement with PT 1000). This value is not displayed in the user profile USER.	7478	Float	W	°C
15.13.13	Lower warning limit	TempWarnMin_0	E	Lower warning limit temperature 1 Rear panel terminal X5 - 7,8,9,10 If this temperature value is not reached, a warning is triggered	7514	Float	W	°C

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.13.14	Upper warning limit	TempWarnMax_0	E	Upper warning limit temperature 1 Rear panel terminal X5 - 7,8,9,10 If this temperature value is exceeded, a warning is triggered.	7516	Float	W	°C
15.13.15	Lower alarm limit	TempErrMin_0	E	Lower alarm limit temperature 1 Rear panel terminal X5 - 7,8,9,10 If this temperature value is not reached, an alarm is triggered.	7480	Float	W	°C
15.13.16	Upper alarm limit	TempErrMax_0	E	Upper alarm limit temperature 1 Rear panel terminal X5 - 7,8,9,10 If this temperature value is exceeded, an alarm is triggered.	7482	Float	W	°C
15.13.17	Set value	TempSetValue_0	E	Default value temperature 1 Rear panel terminal X5 - 7,8,9,10 The default value is used if the transmitter type is set to 'DEFAULT' or when there is an alarm present.	7484	Float	W	°C
15.13.18	Mode: Current input	TempInputMode_0	E	Operating mode of the current input used for temperature 1. Only to be set if current input 1 to current input 8 is selected for the transmitter type. For the transmitter types 'DEFAULT', 'PT100' and 'PT1000' this parameter has to be set to 'OFF'.	1908	Menü	W	°C
15.13.19	Start value	TempMin_0	E	Lower adjustment limit for the current input used for temperature 1. (normally the temperature for an input current of 4 mA).	21176	Float	W	°C
15.13.20	End value	TempMax_0	E	Upper adjustment limit for the current input used for temperature 1. (normally the temperature for an input current of 20 mA).	21178	Float	W	°C
15.13.21	HV_Temperature_0	HV_Temperature_0	A	-	10602	Float	R	°C
15.14.0	Temperature 2	HEAD_15_14	A	-	1231	Titel	R	
15.14.1	Temperature-2	Temperature_1	A	Calibrated measured value temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: only available if X45, X23 1+3, 2+4 are bridged inside the device) The corresponding adjustment values are taken into account.	7486	Float	R	°C

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.14.2	Sensor element	TempSensorType_1	E	Transmitter type temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45,X23 1+3, 2+4 must be bridged.) Transmitter configuration: - PT100, PT1000: Transmitter type - DEFAULT: The Default Value parameter is used.	1232	Menü	W	
15.14.3	open circuit	OpenCircuitMonitor_1	E	Open circuit of temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) - OFF: Open circuit detection is deactivated - ON: Open circuit detection is activated.	1233	Menü	W	
15.14.4	ADC error	TempError_1	A	Fault status temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) - OK: Analog/digital converter within measuring range - ERROR: Analog/digital converter outside of measuring range.	1234	Menü	R	
15.14.5	ADC binary value	TempADResult_1	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3028	Long	R	
15.14.6	R uncalibrated	OhmUncal_1	A	Display of the uncorrected resistance measured value (without use of the adjustment values). This value is not displayed in the user profile USER.	7488	Float	R	Ohm
15.14.7	R calibrated	OhmCal_1	A	Display of the corrected resistance measured value (with use of the adjustment values). This value is not displayed in the user profile USER.	7490	Float	R	Ohm
15.14.8	Temp. uncalibrated	TempUncal_1	A	Display of the uncorrected temperature (without use of the adjustment values). This value is not displayed in the user profile USER.	7492	Float	R	°C
15.14.9	PT100 lower cal val	TempCalLow100_1	E	Adjustment value for the lower limit of the measuring range (for measurement with PT 100). This value is not displayed in the user profile USER.	7494	Float	W	°C
15.14.10	PT100 upper cal val	TempCalHigh100_1	E	Adjustment value for the upper limit of the measuring range (for measurement with PT 100). This value is not displayed in the user profile USER.	7496	Float	W	°C

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.14.11	PT1000 lower cal val	TempCalLow500_1	E	Adjustment value for the lower limit of the measuring range (for measurement with PT 1000). This value is not displayed in the user profile USER.	7498	Float	W	°C
15.14.12	PT1000 upper cal val	TempCalHigh500_1	E	Adjustment value for the upper limit of the measuring range (for measurement with PT 1000). This value is not displayed in the user profile USER.	7500	Float	W	°C
15.14.13	Lower warning limit	TempWarnMin_1	E	Lower warning limit temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) If this temperature value is not reached, a warning is triggered.	7518	Float	W	°C
15.14.14	Upper warning limit	TempWarnMax_1	E	Upper warning limit temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) If this temperature value is exceeded, a warning is triggered.	7520	Float	W	°C
15.14.15	Lower alarm limit	TempErrMin_1	E	Lower alarm limit temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) If this temperature value is not reached, an alarm is triggered.	7502	Float	W	°C
15.14.16	Upper alarm limit	TempErrMax_1	E	Upper alarm limit temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) If this temperature value is exceeded, an alarm is triggered.	7504	Float	W	°C
15.14.17	Set value	TempSetValue_1	E	Default value temperature 2 (optional) Rear panel terminal X6 - 7,8,9,10 (Note: X45, X23 1+3, 2+4 must be bridged.) The default value is used if the transmitter type is set to 'DEFAULT' or when there is an alarm present.	7506	Float	W	°C
15.14.18	Mode: Current input	TempInputMode_1	E	Operating mode of the current input used for temperature 2. Only to be set if current input 1 to current input 8 is selected for the transmitter type. For the transmitter types 'DEFAULT' and 'PT100' this parameter has to be set to 'OFF'.	1909	Menü	W	°C
15.14.19	Start value	TempMin_1	E	Lower adjustment limit for the current input used for temperature 2. (normally the temperature for an input current of 4 mA).	21180	Float	W	°C

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.14.20	End value	TempMax_1	E	Upper adjustment limit for the current input used for temperature 2. (normally the temperature for an input current of 20 mA).	21182	Float	W	°C
15.14.21	HV_Temperature_1	HV_Temperature_1	A	-	10604	Float	R	°C
15.15.0	Internal values	HEAD_15_15	A	-	1235	Titel	R	
15.15.1	Device temp. mode	DeviceTempMode	E	Mode device temperature - OFF: Measurement of device temperature off - ON: Measurement of device temperature on.	1236	Menü	W	
15.15.2	Device temperature	DeviceTempC	A	Device temperature in degrees Celsius	7508	Float	R	°C
15.15.3	Resistance value	DeviceTempOhm	A	Display of the uncorrected resistance measured value (without use of the offset value). This value is not displayed in the user profile USER.	7510	Float	R	Ohm
15.15.4	ADC binary value	DeviceTempADResult	A	Binary value generated by the A/D converter. This value is not displayed in the user profile USER.	3030	Long	R	
15.15.5	Temp. offset	DeviceTempOffset	E	Offset device temperature Measurement of the device temperature can be calibrated with this adjustment parameter.	7512	Float	W	°C
15.15.6	ADC error	DeviceTempError	A	Fault status of device temperature measurement - OK: Analog/digital converter within measuring range - ERROR: Analog/digital converter outside of measuring range.	1237	Menü	R	
15.16.0	Digital outputs	HEAD_15_16	A	-	1529	Titel	R	
15.16.1	Digital outputs	DigitalOutputs	A	Digital Outputs 1 - 12 Display of the status of outputs 1 - 12 as a hexadecimal value e.g.: 0801h -> outputs 1 and 12 connected.	1530	Integer	R	hex
15.16.2	Test mode dig. out	TestDOMode	E	Test mode for the digital outputs. For SERVICE use only. The operating mode of the RGC7-C must be set to STOP. The current valve positions will be lost.	1254	Menü	W	
15.16.3	Test binary value	TestDO	E	Bit pattern, which is output at the digital outputs as a hexadecimal value. The following modes must be activated: - Test Mode Dig. Out. = ON - RGC7-C operating mode = STOP	1255	Integer	W	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.16.4	Test alarm contact	TestAlarmk	E	Possibility to set and reset the alarm contact for a test. The following modes must be set: - Test mode dig. out = ON - RGC7-C operating mode = STOP	1910	Menü	W	
15.16.5	Test warning contact	TestWarnk	E	Possibility to set and reset the warning contact for a test. The following modes must be set: - Test mode dig. out = ON - RGC7-C operating mode = STOP	1911	Menü	W	
15.17.0	Digital inputs DI	HEAD_15_17	A	-	1262	Titel	R	
15.17.1	Inputs 1-20	DigitalInputs	A	Digital Inputs 1 - 20 Display of the open inputs 1 - 20 as a hexadecimal value e.g.: 00801h -> inputs 1 and 12 open inputs 2 through 11 and 13 through 20 closed	3042	Long	R	hex
15.17.2	DI1	DigitalInput_0	A	Digital input 1 Rear panel terminal X7 - 1,2 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1240	Menü	R	
15.17.3	DI2	DigitalInput_1	A	Digital input 2 Rear panel terminal X7 - 3,4 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1241	Menü	R	
15.17.4	DI3	DigitalInput_2	A	Digital input 3 Rear panel terminal X7 - 5,6 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1242	Menü	R	
15.17.5	DI4	DigitalInput_3	A	Digital input 4 Rear panel terminal X7 - 7,8 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1243	Menü	R	
15.17.6	DI5	DigitalInput_4	A	Digital input 5 Rear panel terminal X7 - 9,10 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1244	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.17.7	DI6	DigitalInput_5	A	Digital input 6 Rear panel terminal X8 - 1,2 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1245	Menü	R	
15.17.8	DI7	DigitalInput_6	A	Digital input 7 Rear panel terminal X8 - 3,4 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1246	Menü	R	
15.17.9	DI8	DigitalInput_7	A	Digital input 8 Rear panel terminal X8 - 5,6 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1247	Menü	R	
15.17.10	DI9	DigitalInput_8	A	Digital input 9 Rear panel terminal X8 - 7,8 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1248	Menü	R	
15.17.11	DI10	DigitalInput_9	A	Digital input 10 Rear panel terminal X8 - 9,10 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1249	Menü	R	
15.17.12	DI11	DigitalInput_10	A	Digital input 11 Rear panel terminal X3 - 9,10 Passive input, Umax = 30 V Not suitable for transistor, relay and switch.	1250	Menü	R	
15.17.13	DI12	DigitalInput_11	A	Digital input 12 Rear panel terminal X4 - 9,10 Passive input, Umax = 30 V Not suitable for transistor, relay and switch.	1251	Menü	R	
15.17.14	DI13	DigitalInput_12	A	Digital input 13 Rear panel terminal X9 - 1,2 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1252	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.17.15	DI14	DigitalInput_13	A	Digital input 14 Rear panel terminal X9 - 3,4 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1253	Menü	R	
15.17.16	DI15	DigitalInput_14	A	Digital input 15 Rear panel terminal X9 - 5,6 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1260	Menü	R	
15.17.17	DI16	DigitalInput_15	A	Digital input 16 Rear panel terminal X9 - 7,8 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1261	Menü	R	
15.17.18	DI17	DigitalInput_16	A	Digital input 17 Rear panel terminal X9 - 9,10 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1256	Menü	R	
15.17.19	DI18	DigitalInput_17	A	Digital input 18 Rear panel terminal X10 - 1,2 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1257	Menü	R	
15.17.20	DI19	DigitalInput_18	A	Digital input 19 Rear panel terminal X10 - 3,4 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1258	Menü	R	
15.17.21	DI20	DigitalInput_19	A	Digital input 20 Rear panel terminal X10 - 5,6 Active input, Uout = 5 V, Iout = 13 mA (typical values) Suitable for transistor, relay and switch.	1259	Menü	R	
15.18.0	DI parameters	HEAD_15_18	A	-	1531	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.1	DI1 warning if	DiWarnPolarity_0	B	Digital contact input 1 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1509	Menü	W	
15.18.2	DI2 warning if	DiWarnPolarity_1	B	Digital contact input 2 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1510	Menü	W	
15.18.3	DI3 warning if	DiWarnPolarity_2	B	Digital contact input 3 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1511	Menü	W	
15.18.4	DI4 warning if	DiWarnPolarity_3	B	Digital contact input 4 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1512	Menü	W	
15.18.5	DI5 warning if	DiWarnPolarity_4	B	Digital contact input 5 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1513	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.6	DI6 warning if	DiWarnPolarity_5	B	Digital contact input 6 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1514	Menü	W	
15.18.7	DI7 warning if	DiWarnPolarity_6	B	Digital contact input 7 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1515	Menü	W	
15.18.8	DI8 warning if	DiWarnPolarity_7	B	Digital contact input 8 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1516	Menü	W	
15.18.9	DI9 warning if	DiWarnPolarity_8	B	Digital contact input 9 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1517	Menü	W	
15.18.10	DI10 warning if	DiWarnPolarity_9	B	Digital contact input 10 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1518	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.11	DI11 warning if	DiWarnPolarity_10	B	Digital contact input 11 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1519	Menü	W	
15.18.12	DI12 warning if	DiWarnPolarity_11	B	Digital contact input 12 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1520	Menü	W	
15.18.13	DI13 warning if	DiWarnPolarity_12	B	Digital contact input 13 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1521	Menü	W	
15.18.14	DI14 warning if	DiWarnPolarity_13	B	Digital contact input 14 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1522	Menü	W	
15.18.15	DI15 warning if	DiWarnPolarity_14	B	Digital contact input 15 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1523	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.16	DI16 warning if	DiWarnPolarity_15	B	Digital contact input 16 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1524	Menü	W	
15.18.17	DI17 warning if	DiWarnPolarity_16	B	Digital contact input 17 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1525	Menü	W	
15.18.18	DI18 warning if	DiWarnPolarity_17	B	Digital contact input 18 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1526	Menü	W	
15.18.19	DI19 warning if	DiWarnPolarity_18	B	Digital contact input 19 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1527	Menü	W	
15.18.20	DI20 warning if	DiWarnPolarity_19	B	Digital contact input 20 The switching state for which a warning is generated is defined here. OPEN or CLOSED input. For activation, the mode for this input must be set. If the mode is OFF, no warning is generated.	1528	Menü	W	
15.18.21	DI1 Mode	DiMode_0	B	Digital contact input 1 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1487	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.22	DI2 Mode	DiMode_1	B	Digital contact input 2 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1488	Menü	W	
15.18.23	DI3 Mode	DiMode_2	B	Digital contact input 3 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1489	Menü	W	
15.18.24	DI4 Mode	DiMode_3	B	Digital contact input 4 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1490	Menü	W	
15.18.25	DI5 Mode	DiMode_4	B	Digital contact input 5 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1491	Menü	W	
15.18.26	DI6 Mode	DiMode_5	B	Digital contact input 6 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1492	Menü	W	
15.18.27	DI7 Mode	DiMode_6	B	Digital contact input 7 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1493	Menü	W	
15.18.28	DI8 Mode	DiMode_7	B	Digital contact input 8 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1494	Menü	W	
15.18.29	DI9 Mode	DiMode_8	B	Digital contact input 9 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1495	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.30	DI10 Mode	DiMode_9	B	Digital contact input 10 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1496	Menü	W	
15.18.31	DI11 Mode	DiMode_10	B	Digital contact input 11 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1497	Menü	W	
15.18.32	DI12 Mode	DiMode_11	B	Digital contact input 12 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1498	Menü	W	
15.18.33	DI13 Mode	DiMode_12	B	Digital contact input 13 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1499	Menü	W	
15.18.34	DI14 Mode	DiMode_13	B	Digital contact input 14 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1500	Menü	W	
15.18.35	DI15 Mode	DiMode_14	B	Digital contact input 15 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1501	Menü	W	
15.18.36	DI16 Mode	DiMode_15	B	Digital contact input 16 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1502	Menü	W	
15.18.37	DI17 Mode	DiMode_16	B	Digital contact input 17 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1503	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.38	DI18 Mode	DiMode_17	B	Digital contact input 18 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1504	Menü	W	
15.18.39	DI19 Mode	DiMode_18	B	Digital contact input 19 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1505	Menü	W	
15.18.40	DI20 Mode	DiMode_19	B	Digital contact input 20 Operating mode of the digital input. First menu item is OFF: No function Second menu item WARNING: Generates a warning	1506	Menü	W	
15.18.41	DI1 warning text	DiWarnText_0	B	A name (max. 20 characters) for the warning that is received via contact input 1 can be entered here.	6060	Text	W	
15.18.42	DI2 warning text	DiWarnText_1	B	A name (max. 20 characters) for the warning that is received via contact input 2 can be entered here.	6080	Text	W	
15.18.43	DI3 warning text	DiWarnText_2	B	A name (max. 20 characters) for the warning that is received via contact input 3 can be entered here.	6100	Text	W	
15.18.44	DI4 warning text	DiWarnText_3	B	A name (max. 20 characters) for the warning that is received via contact input 4 can be entered here.	6120	Text	W	
15.18.45	DI5 warning text	DiWarnText_4	B	A name (max. 20 characters) for the warning that is received via contact input 5 can be entered here.	6140	Text	W	
15.18.46	DI6 warning text	DiWarnText_5	B	A name (max. 20 characters) for the warning that is received via contact input 6 can be entered here.	6160	Text	W	
15.18.47	DI7 warning text	DiWarnText_6	B	A name (max. 20 characters) for the warning that is received via contact input 7 can be entered here.	6180	Text	W	
15.18.48	DI8 warning text	DiWarnText_7	B	A name (max. 20 characters) for the warning that is received via contact input 8 can be entered here.	6200	Text	W	
15.18.49	DI9 warning text	DiWarnText_8	B	A name (max. 20 characters) for the warning that is received via contact input 9 can be entered here.	6220	Text	W	
15.18.50	DI10 warning text	DiWarnText_9	B	A name (max. 20 characters) for the warning that is received via contact input 10 can be entered here.	6240	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
15.18.51	DI11 warning text	DiWarnText_10	B	A name (max. 20 characters) for the warning that is received via contact input 11 can be entered here.	6260	Text	W	
15.18.52	DI12 warning text	DiWarnText_11	B	A name (max. 20 characters) for the warning that is received via contact input 12 can be entered here.	6280	Text	W	
15.18.53	DI13 warning text	DiWarnText_12	B	A name (max. 20 characters) for the warning that is received via contact input 13 can be entered here.	6300	Text	W	
15.18.54	DI14 warning text	DiWarnText_13	B	A name (max. 20 characters) for the warning that is received via contact input 14 can be entered here.	6320	Text	W	
15.18.55	DI15 warning text	DiWarnText_14	B	A name (max. 20 characters) for the warning that is received via contact input 15 can be entered here.	6340	Text	W	
15.18.56	DI16 warning text	DiWarnText_15	B	A name (max. 20 characters) for the warning that is received via contact input 16 can be entered here.	6360	Text	W	
15.18.57	DI17 warning text	DiWarnText_16	B	A name (max. 20 characters) for the warning that is received via contact input 17 can be entered here.	6380	Text	W	
15.18.58	DI18 warning text	DiWarnText_17	B	A name (max. 20 characters) for the warning that is received via contact input 18 can be entered here.	6400	Text	W	
15.18.59	DI19 warning text	DiWarnText_18	B	A name (max. 20 characters) for the warning that is received via contact input 19 can be entered here.	6420	Text	W	
15.18.60	DI20 warning text	DiWarnText_19	B	A name (max. 20 characters) for the warning that is received via contact input 20 can be entered here.	6440	Text	W	
16.0.0	Serial ports	HEAD_16	A	-	1268	Titel	R	
16.0.1	COM1 state	ComStatus_0	A	Status indicator for serial interface COM1	5520	Text	R	
16.0.2	COM2 state	ComStatus_1	A	Status indicator for serial interface COM2	5540	Text	R	
16.0.3	COM3 state	ComStatus_2	A	Status indicator for serial interface COM3	5560	Text	R	
16.0.4	COM4 state	ComStatus_3	A	Status indicator for serial interface COM4	5580	Text	R	
16.0.5	COM5 state	ComStatus_4	A	Status indicator for serial interface COM5	5600	Text	R	
16.0.6	COM6 state	ComStatus_5	A	Status indicator for serial interface COM6	5620	Text	R	
16.0.7	COM7 state	ComStatus_6	A	Status indicator for serial interface COM7	5640	Text	R	
16.1.0	COM1	HEAD_16_1	A	-	1269	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.1.1	Baud rate	ComBaudrate_0	N	Baud rate for serial interface COM1	1270	Menü	W	
16.1.2	Data bits	ComBits_0	N	Selection of data bits/parity/stop bits for serial interface COM1	1271	Menü	W	
16.1.3	Protocol	ComMode_0	N	Selection of protocol for serial interface COM1	1272	Menü	W	
16.1.4	Modbus ID	ModbusID_0	N	Modbus address (1 through 247) for serial interface COM1 if Modbus protocol selected.	1273	Integer	W	
16.1.5	Modbus text mode	ModbusText-Mode_0	N	Modbus text mode for serial interface COM1 if Modbus protocol selected.	1274	Menü	W	
16.1.6	Modbus byte order	ModbusByteOrder_0	N	Modbus byte-order for serial interface COM1.	2011	Menü	W	
16.1.7	Modbus reg. offs.	ModbusRegOffset_0	N	Modbus register offset (0/1) for serial interface COM1 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1275	Integer	W	
16.1.8	Modbus user list	ModbusUserList_0	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM1.	1611	Menü	W	
16.1.9	User list mode	ModbusUserList-Mode_0	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2324	Menü	W	
16110	MB telegram counter	ComTelegram-Counter_0	A	Modbus telegram counter COM-1. Counts the incoming MB telegrams.	3330	Long	R	
16.2.0	COM2	HEAD_16_2	A	-	1276	Titel	R	
16.2.1	Baud rate	ComBaudrate_1	N	Baud rate for serial interface COM2	1277	Menü	W	
16.2.2	Data bits	ComBits_1	N	Selection of data bits/parity/stop bits for serial interface COM2	1278	Menü	W	
16.2.3	Protocol	ComMode_1	N	Selection of protocol for serial interface COM2	1279	Menü	W	
16.2.4	Modbus ID	ModbusID_1	N	Modbus address (1 through 247) for serial interface COM2 if Modbus protocol selected.	1280	Integer	W	
16.2.5	Modbus text mode	ModbusText-Mode_1	N	Modbus text mode for serial interface COM2 if Modbus protocol selected.	1281	Menü	W	
16.2.6	Modbus byte order	ModbusByteOrder_1	N	Modbus byte-order for serial interface COM2.	2012	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.2.7	Modbus reg. offs.	ModbusRegOffset_1	N	Modbus register offset (0/1) for serial interface COM2 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1282	Integer	W	
16.2.8	Modbus user list	ModbusUserList_1	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM2.	1612	Menü	W	
16.2.9	User list mode	ModbusUserList-Mode_1	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2325	Menü	W	
16210	MB telegram counter	ComTelegram-Counter_1	A	Modbus telegram counter COM-2. Counts the incoming MB telegrams.	3332	Long	R	
16.3.0	COM3	HEAD_16_3	A	-	1283	Titel	R	
16.3.1	Baud rate	ComBaudrate_2	N	Baud rate for serial interface COM3	1284	Menü	W	
16.3.2	Data bits	ComBits_2	N	Selection of data bits/parity/stop bits for serial interface COM3	1285	Menü	W	
16.3.3	Protocol	ComMode_2	N	Selection of protocol for serial interface COM3. The baudrates 300 & 600 can not be used for RMGBUS. RMGBUS for GCVariant GATEWAY not available!	1286	Menü	W	
16.3.4	Modbus ID	ModbusID_2	N	Modbus address (1 through 247) for serial interface COM3 if Modbus protocol selected.	1287	Integer	W	
16.3.5	Modbus text mode	ModbusText-Mode_2	N	Modbus text mode for serial interface COM3 if Modbus protocol selected.	1288	Menü	W	
16.3.6	Modbus byte order	ModbusByteOrder_2	N	Modbus byte-order for serial interface COM3.	2013	Menü	W	
16.3.7	Modbus reg. offs.	ModbusRegOffset_2	N	Modbus register offset (0/1) for serial interface COM3 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1289	Integer	W	
16.3.8	Modbus user list	ModbusUserList_2	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM3.	1613	Menü	W	
16.3.9	User list mode	ModbusUserList-Mode_2	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2326	Menü	W	
16310	MB telegram counter	ComTelegram-Counter_2	A	Modbus telegram counter COM-3. Counts the incoming MB telegrams.	3334	Long	R	
16.4.0	COM4	HEAD_16_4	A	-	1290	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.4.1	Baud rate	ComBaudrate_3	N	Baud rate for serial interface COM4	1291	Menü	W	
16.4.2	Data bits	ComBits_3	N	Selection of data bits/parity/stop bits for serial interface COM4.	1292	Menü	W	
16.4.3	Protocol	ComMode_3	N	Selection of protocol for serial interface COM4. The baudrates 300 & 600 can not be used for RMGBUS. RMGBUS for GCVariant GATEWAY not available!	1293	Menü	W	
16.4.4	MB telegram counter	ComTelegram-Counter_3	A	Modbus telegram counter COM-4. Counts the incoming MB telegrams.	3336	Long	R	
16.5.0	COM5 WinCE(C2)	HEAD_16_5	A	-	1294	Titel	R	
16.5.1	Baud rate	ComBaudrate_4	N	Baud rate for serial interface COM5	1295	Menü	W	
16.5.2	Data bits	ComBits_4	N	Selection of data bits/parity/stop bits for serial interface COM5	1296	Menü	W	
16.5.3	Protocol	ComMode_4	N	Selection of protocol for serial interface COM5	1297	Menü	W	
16.5.4	Modbus ID	ModbusID_4	N	Modbus address (1 through 247) for serial interface COM5 if Modbus protocol selected.	1298	Integer	W	
16.5.5	Modbus text mode	ModbusText-Mode_4	N	Modbus text mode for serial interface COM5 if Modbus protocol selected.	1299	Menü	W	
16.5.6	Modbus byte order	ModbusByteOrder_4	N	Modbus byte-order for serial interface COM5.	2014	Menü	W	
16.5.7	Modbus reg. offs.	ModbusRegOffset_4	N	Modbus register offset (0/1) for serial interface COM5 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1300	Integer	W	
16.5.8	Modbus user list	ModbusUserList_4	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM5.	1614	Menü	W	
16.5.9	User list mode	ModbusUserList-Mode_4	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2327	Menü	W	
16.5.10	MB telegram counter	ComTelegram-Counter_4	A	Modbus telegram counter COM-5. Counts the incoming MB telegrams.	3338	Long	R	
16.6.0	COM6 WinCE(C3)	HEAD_16_6	A	-	1301	Titel	R	
16.6.1	Baud rate	ComBaudrate_5	N	Baud rate for serial interface COM6	1302	Menü	W	
16.6.2	Data bits	ComBits_5	N	Selection of data bits/parity/stop bits for serial interface COM6	1303	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.6.3	Protocol	ComMode_5	N	Selection of protocol for serial interface COM6. The baudrates 300 & 600 can not be used for RMGBUS. RMGBUS for GCVariant GATEWAY not available!	1304	Menü	W	
16.6.4	Modbus ID	ModbusID_5	N	Modbus address (1 through 247) for serial interface COM6 if Modbus protocol selected.	1305	Integer	W	
16.6.5	Modbus text mode	ModbusText-Mode_5	N	Modbus text mode for serial interface COM6 if Modbus protocol selected.	1306	Menü	W	
16.6.6	Modbus byte order	ModbusByteOrder_5	N	Modbus byte-order for serial interface COM6.	2015	Menü	W	
16.6.7	Modbus reg. offs.	ModbusRegOffset_5	N	Modbus register offset (0/1) for serial interface COM6 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1307	Integer	W	
16.6.8	Modbus user list	ModbusUserList_5	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM6.	1615	Menü	W	
16.6.9	User list mode	ModbusUserList-Mode_5	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2328	Menü	W	
16.6.10	MB telegram counter	ComTelegram-Counter_5	A	Modbus telegram counter COM-6. Counts the incoming MB telegrams.	3340	Long	R	
16.7.0	COM7 WinCE(C1)	HEAD_16_7	A	-	1308	Titel	R	
16.7.1	Baud rate	ComBaudrate_6	N	Baud rate for serial interface COM7	1309	Menü	W	
16.7.2	Data bits	ComBits_6	N	Selection of data bits/parity/stop bits for serial interface COM7	1310	Menü	W	
16.7.3	Protocol	ComMode_6	N	Selection of protocol for serial interface COM7	1311	Menü	W	
16.7.4	Modbus ID	ModbusID_6	N	Modbus address (1 through 247) for serial interface COM7 if Modbus protocol selected.	1312	Integer	W	
16.7.5	Modbus text mode	ModbusText-Mode_6	N	Modbus text mode for serial interface COM7 if Modbus protocol selected.	1313	Menü	W	
16.7.6	Modbus byte order	ModbusByteOrder_6	N	Modbus byte-order for serial interface COM7.	2016	Menü	W	
16.7.7	Modbus reg. offs.	ModbusRegOffset_6	N	Modbus register offset (0/1) for serial interface COM7 depending on Modbus specification. Some of the register definitions of other device manufacturers contain this offset.	1314	Integer	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.7.8	Modbus user list	ModbusUserList_6	N	Selects whether the customer-specific Modbus configuration is used for the serial interface COM7.	1616	Menü	W	
16.7.9	User list mode	ModbusUserList-Mode_6	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	2329	Menü	W	
16710	MB telegram counter	ComTelegram-Counter_6	A	Modbus telegram counter COM-7. Counts the incoming MB telegrams.	3342	Long	R	
16.8.0	RMGBus testmode	HEAD_16_8	A	-	1926	Titel	R	
16.8.1	RMGBus: testmode	RMGBusTestModus	E	RMGBus test mode: activate/deactivate test mode	1927	Menü	W	
16.8.2	RMGBus: methane	RMGBusTestMethan	E	RMGBus test mode: concentration of methane	21184	Float	W	mol%
16.8.3	RMGBus: ethane	RMGBusTestEthan	E	RMGBus test mode: concentration of ethane	21186	Float	W	mol%
16.8.4	RMGBus: propane	RMGBusTestPropan	E	RMGBus test mode: concentration of propane	21188	Float	W	mol%
16.8.5	RMGBus: iso-Butane	RMGBusTestIsoButan	E	RMGBus test mode: concentration of iso-butane	21190	Float	W	mol%
16.8.6	RMGBus: n-Butane	RMGBusTestNButan	E	RMGBus test mode: concentration of n-butane	21192	Float	W	mol%
16.8.7	RMGBus: neo-Pentane	RMGBusTestNeoPentan	E	RMGBus test mode: concentration of neo-pentane	21194	Float	W	mol%
16.8.8	RMGBus: iso-Pentane	RMGBusTestIsoPentan	E	RMGBus test mode: concentration of iso-pentane	21196	Float	W	mol%
16.8.9	RMGBus: n-Pentane	RMGBusTestNPentan	E	RMGBus test mode: concentration of n-pentane	21198	Float	W	mol%
16.8.10	RMGBus: C6+	RMGBusTestC6p	E	RMGBus test mode: concentration of C6+	21200	Float	W	mol%
16.8.11	RMGBus: Mz	RMGBusTestMethanzahl	E	RMGBus test mode: methane number	21202	Float	W	
16.8.12	RMGBus: Oxygen	RMGBusTestSauerstoff	E	RMGBus test mode: concentration of oxygen	21204	Float	W	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.8.13	RMGBus: Helium	RMGBusTestHelium	E	RMGBus test mode: concentration of helium	21206	Float	W	mol%
16.8.14	RMGBus: Hydrogen	RMGBusTestWasserstoff	E	RMGBus test mode: concentration of hydrogen	21208	Float	W	mol%
16.8.15	RMGBus: Argon	RMGBusTestArgon	E	RMGBus test mode: concentration of argon	21210	Float	W	mol%
16.8.16	RMGBus: Nitrogen	RMGBusTestStickstoff	E	RMGBus test mode: concentration of nitrogen	21212	Float	W	mol%
16.8.17	RMGBus: Carbon Dioxide	RMGBusTestKohlendioxid	E	RMGBus test mode: concentration of carbon dioxide	21214	Float	W	mol%
16.8.18	RMGBus: n-Hexane	RMGBusTestNHexan	E	RMGBus test mode: concentration of n-hexane	21216	Float	W	mol%
16.8.19	RMGBus: n-Heptane	RMGBusTestNHeptan	E	RMGBus test mode: concentration of n-heptane	21218	Float	W	mol%
16.8.20	RMGBus: n-Octane	RMGBusTestNOktan	E	RMGBus test mode: concentration of n-octane	21220	Float	W	mol%
16.8.21	RMGBus: n-Nonane	RMGBusTestNNonan	E	RMGBus test mode: concentration of n-nonane	21222	Float	W	mol%
16.8.22	RMGBus: n-Decane	RMGBusTestNDekan	E	RMGBus test mode: concentration of n-decane	21224	Float	W	mol%
16.8.23	RMGBus: H ₂ S	RMGBusTestH ₂ S	E	RMGBus test mode: concentration of hydrogen sulfide	21226	Float	W	mol%
16.8.24	RMGBus: water vapor	RMGBusTestWasserdampf	E	RMGBus test mode: concentration of water vapour	21228	Float	W	mol%
16.8.25	RMGBus: CO	RMGBusTestKohlenmonox	E	RMGBus test mode: concentration of carbon monoxide	21230	Float	W	mol%
16.8.26	RMGBus: Ethene	RMGBusTestEthen	E	RMGBus test mode: concentration of ethene	21232	Float	W	mol%
16.8.27	RMGBus: Propene	RMGBusTestPropen	E	RMGBus test mode: concentration of propene	21234	Float	W	mol%
16.8.28	RMGBus: Reserve1	RMGBusTestReserve1	E	RMGBus test mode: reserve1 (not used register)	21236	Float	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
16.8.29	RMGBus: Reserve2	RMGBusTestReserve2	E	RMGBus test mode: reserve2 (not used register)	21238	Float	W	
16.8.30	RMGBus: Reserve3	RMGBusTestReserve3	E	RMGBus test mode: reserve3 (not used register)	21240	Float	W	
16.8.31	RMGBus: Reserve4	RMGBusTestReserve4	E	RMGBus test mode: reserve4 (not used register)	21242	Float	W	
16.8.32	RMGBus: Reserve5	RMGBusTestReserve5	E	RMGBus test mode: reserve5 (not used register)	21244	Float	W	
16.8.33	RMGBus: Version	RMGBusTestVersion	E	RMGBus test mode: version (actually 1.0)	21246	Float	W	
16.8.34	RMGBus: Hs	RMGBusTestHo	E	RMGBus test mode: superior calorific value	21248	Float	W	
16.8.35	RMGBus: Hu	RMGBusTestHu	E	RMGBus test mode: inferior calorific value	21250	Float	W	
16.8.36	RMGBus: Dv	RMGBusTestDv	E	RMGBus test mode: relative density	21252	Float	W	
16.8.37	RMGBus: Rho	RMGBusTestRhon	E	RMGBus test mode: standard density	21254	Float	W	
16.8.38	RMGBus: Ws	RMGBusTestWo	E	RMGBus test mode: superior Wobbe index	21256	Float	W	
16.8.39	RMGBus: Zn	RMGBusTestZn	E	RMGBus test mode: real gas factor	21258	Float	W	
16.8.40	RMGBus: Stream	RMGBusTestStreamNr	E	RMGBus test mode: stream number - S1 (1): status = 0x0004 - S2 (2): status = 0x0004 - S3 (3): status = 0x0004 - S4 (4): status = 0x0004 - Ref (5): status = 0x0001 - Cal (6): status = 0x0002	1947	Menü	W	
16.8.41	RMGBus: Status	RMGBusTestStatus	E	RMGBus test mode: status - Okay - Fault: status = 0x0008	1928	Menü	W	
17.0.0	Network	HEAD_17	A	-	1315	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.0.1	LAN1 State	EthStatus1	A	Status of the LAN-1 network The messages originate from the Windows CE operating system and are documented on the Internet. ----- Recommended LAN-1 and LAN-2 configuration >>> LAN-1 (RMG network): - RGC7-C - RGC7-M - Service PC (ProStation, RMGViewGC) - Web server active - DHCP server active - Modbus TCP/IP active (for RMGView) LAN-2 (customer network): - DSfG RDT active - Web server active - DHCP server NOT active - Modbus TCP/IP active - ...	1468	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.0.2	LAN2 State	EthStatus2	A	Status of the LAN-2 network The messages originate from the Windows CE operating system and are documented on the Internet. ----- Recommended LAN-1 and LAN-2 configuration >>> LAN-1 (RMG network): - RGC7-C - RGC7-M - Service PC (ProStation, RMGViewGC) - Web server active - DHCP server active - Modbus TCP/IP active (for RMGView) LAN-2 (customer network): - DSfG RDT active - Web server active - DHCP server NOT active - Modbus TCP/IP active - ...	1469	Menü	R	
17.0.3	MB telegram counter	EthTelegram-Counter	A	Telegram counter LAN-1 & LAN-2 (Protocols: Modbus) Modbus telegram counter LAN-1 & LAN-2. Counts the incoming MB telegrams (MB-slave).	3344	Long	R	
17.1.0	Addresses	HEAD_17_1	A	-	1470	Titel	R	
17.1.1	LAN-1 IP-Mode	IPv4EnabledDHCP1	E	IP settings can be assigned automatically if the network supports this function. Otherwise, set a fixed IP address. ----- AUTO_IP: Get IP address automatically (via DHCP) FIX_IP : Use the set IP address ----- Note: If the AUTO_IP setting is used, the RGC7-C **MUST** be restarted; check the DHCP server and update the IP address assigned by the DHCP server. A fixed IP address should always be set for LAN-1 (RMG LAN).	1473	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.1.2	LAN-1 IP from DHCP	IPv4AddressFrom-DHCP1	A	Current or last IP address for LAN-1 assigned by the server. If no assignment has ever been made, not found is displayed.	6540	Text	R	
17.1.3	LAN-1 IP address	IPv4Address1	E	This is the IP address for LAN-1. The address consists of four numbers between 0 and 255, separated by dots. Example: 192.168.20.1 This address is only used if DHCP mode is set to FIX_IP.	5880	Text	W	
17.1.4	LAN-1 Subnetmask	IPv4Subnetmask1	E	The subnet mask is a bitmask, which specifies how many bits at the start of the displayed IP address make up the network prefix when describing IP networks using the IPv4 network protocol. Example: >>> IP address 11000000 10101000 00000001 10000001 192:168:001:129 AND netmask 11111111 11111111 11111111 00000000 255:255:255:000 = network part 11000000 10101000 00000001 00000000 192:168:001:000 IP address 11000000 10101000 00000001 10000001 192:168:001:129 AND NOT netmask 00000000 00000000 00000000 11111111 000:000:000:255 = host part 00000000 00000000 00000000 10000001 000:000:000:129	5900	Text	W	
17.1.5	LAN-1 def. Gateway	IPv4DefaultGateway1	E	Default gateway: If the RGC7-C wishes to send an IP packet to another IP address, it first analyzes the destination IP address. If it determines that the destination IP address is in its own network, it sends the packet immediately. >>> For all other destination IP addresses, it sends the IP packet to the default gateway. The default gateway node hopefully then knows how to proceed.	5920	Text	W	
17.1.6	LAN-1 DNS-Server	IPv4DNS1	E	Address of the DNS server for LAN-1	6620	Text	W	
17.1.7	LAN-1 Mac address	MacAddress1	A	MAC address of LAN interface 1	6580	Text	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.1.8	LAN-2 IP-Mode	IPv4EnabledDHCP2	B	IP settings can be assigned automatically if the network supports this function. Otherwise, set a fixed IP address. ----- AUTO_IP: Get IP address automatically (via DHCP) FIX_IP : Use the set IP address ----- Note: If the AUTO_IP setting is used, the RGC7-C **MUST** be restarted; check the DHCP server and update the IP address assigned by the DHCP server. A fixed IP address should always be set for LAN-1 (RMG LAN).	1474	Menü	W	
17.1.9	LAN-2 IP from DHCP	IPv4AddressFrom-DHCP2	A	Current or last IP address for LAN-2 assigned by the server. If no assignment has ever been made, not found is displayed.	6560	Text	R	
17.1.10	LAN-2 IP address	IPv4Address2	B	This is the IP address for LAN-2. The address consists of four numbers between 0 and 255, separated by dots. Example: 192.168.20.1 This address is only used if DHCP mode is set to FIX_IP.	5940	Text	W	
17.1.11	LAN-2 Subnetmask	IPv4Subnetmask2	B	The subnet mask is a bitmask, which specifies how many bits at the start of the displayed IP address make up the network prefix when describing IP networks using the IPv4 network protocol. Example: >>> IP address 11000000 10101000 00000001 10000001 192:168:001:129 AND netmask 11111111 11111111 11111111 00000000 255:255:255:000 = network part 11000000 10101000 00000001 00000000 192:168:001:000 IP address 11000000 10101000 00000001 10000001 192:168:001:129 AND NOT netmask 00000000 00000000 00000000 11111111 000:000:000:255 = host part 00000000 00000000 00000000 10000001 000:000:000:129	5960	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.1.12	LAN-2 def. Gateway	IPv4DefaultGateway2	B	Default gateway:If the RGC7-C wishes to send an IP packet to another IP address, it first analyzes the destination IP address. If it determines that the destination IP address is in its own network, it sends the packet immediately. >>> For all other destination IP addresses, it sends the IP packet to the default gateway. The default gateway node hopefully then knows how to proceed.	5980	Text	W	
17.1.13	LAN-2 DNS-Server	IPv4DNS2	B	Address of the DNS server for LAN-2	6640	Text	W	
17.1.14	LAN-2 Mac address	MacAddress2	E	MAC address of LAN interface 2. Changes are applied only after a reboot.	6600	Text	W	
17.2.0	DHCP Server	HEAD_17_2	A	-	1471	Titel	R	
17.2.1	DHCP-Server Mode	InterfaceDhcp-Server	E	The DHCP server supports assignment of the network configuration to clients. The connection between the RGC7-C and RGC7-M must be implemented using fixed IP addresses. DHCP can be used for an occasionally present service PC, for example. >>> Problem: The DHCP server must be operational before all other devices in the same network.	1472	Menü	W	
17.2.2	DHCP Lease Time	DhcpServerLease-Time	E	DHCP lease time is the time value that specifies how long a client may use the assigned IP configuration.	1476	Integer	W	min
17.2.3	DHCP Addr. Count	DhcpServerAddressCount	E	This is the number of addresses that are managed by the DHCP server.	1475	Integer	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.2.4	DHCP Start Addr.	DhcpServerAddressStart	E	Start address of the address range managed by the DHCP server. This address range must take the IP addresses for LAN-1 and LAN-2 into account. Fixed and automatically assigned IP addresses must be in separate ranges. >>> Example: ----- RGC7-C 192.168.20.1 (fixed IP) RGC7-M 192.168.20.2 (fixed IP) DHCP 192.168.20.10 (length = 10) ... DHCP 192.168.20.19 A laptop connected to the system receives an address in the range 192.168.20.10 ... 192.168.20.19	6000	Text	W	
17.2.5	DHCP Server DNS	DhcpServerDNS	E	This is the address of the DNS (Domain Name Server) that the DHCP server sends to the client. DNS is used for name resolution in the network. A computer name (hostname) is thus translated into an IP address, for example. The RGC7-C does not require DNS, which means that this field can be left blank.	6020	Text	W	
17.2.6	DHCP Server Domain	DhcpServerDomain	E	This is the name of the domain that the DHCP server sends to the client.	6040	Text	W	
17.3.0	Services	HEAD_17_3	A	-	1477	Titel	R	
17.3.1	Web Server	InterfaceWeb-server	E	Defines the LAN port for the Web server. The following options are possible: - OFF : No Web server available - LAN-1: Web server on LAN-1 only - LAN-2: Web server on LAN-2 only - BOTH: Web server available on LAN-1 and LAN-2	1478	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.3.2	DSfG DFÜ	InterfaceDSfGDFue	E	Defines the LAN port for DSFG remote data transmission. The following options are possible: - OFF : No RDT available - LAN-1: RDT on LAN-1 only - LAN-2: RDT on LAN-2 only - BOTH: RDT available on LAN-1 and LAN-2	1479	Menü	W	
17.3.3	Modbus TCP/IP	InterfaceModbusTcpIp	E	Defines the LAN port for the Modbus TCP/IP. The following options are possible: - OFF : No Modbus TCP/IP available - LAN-1: Modbus on LAN-1 only - LAN-2: Modbus on LAN-2 only - BOTH: Modbus available on LAN-1 and LAN-2	1480	Menü	W	
17.3.4	Modbus Device-ID	ModbusTcpID	N	Modbus TCP/IP device address (ID) This address may only be assigned once per bus.	1317	Integer	W	
17.3.5	Modbus text mode	ModbusTcpText-Mode	N	Modbus TCP/IP text mode Text can be transmitted as ASCII or UNICODE characters. The setting depends on the recipient.	1318	Menü	W	
17.3.6	Modbus byte order	ModbusTcpByteOrder	N	Byte-order for Modbus TCP/IP	2017	Menü	W	
17.3.7	Modbus user list	ModbusTcpUserList	N	Selects whether the customer-specific Modbus configuration is used for Modbus TCP/IP.	1617	Menü	W	
17.3.8	User list mode	ModbusTcpUserListMode	N	Select whether the addressing of the Modbus User List is to be interpreted according to Modicon or Enron.	1635	Menü	W	
17.3.9	Rc: interface	RemoteControlInterface	E	Remote Control Interface: Interface which provides the remote control function.	1914	Menü	W	
17.3.10	Rc: port	RemoteControlPort	E	Remote Control Port: Port which is opened in the registry of the RGC7-C. The port has to be 4831 if the gas station is metrologically approved.	1938	Integer	W	
17.3.11	Rc: password	RemoteControlPassword	B	Remote Control Password: Has to be the same as in RMGViewGC (default: 12345).	30900	Code	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
17.3.12	Rc: timeout	RemoteControl-Timeout	B	Timeout for remote control. When there are no more commands from the master, the connection is closed. 0 = function deactivated	2089	Integer	W	hours
18.0.0	DSfG	HEAD_18	A	-	1561	Titel	R	
18.0.1	Device name	DSfGLoginname	B	Display and parameterization of the device ID for remote data transmission access via DSfG-B-IP. The device ID is requested by the central software during the login procedure. Note: The device ID must contain exactly 12 characters. The characters must consist of the digits '0...9' or the letters 'A-Z' and 'a-z'. Blanks, umlauts and special characters are not permitted. This restriction is due to the fact that DSfG uses a 7-bit code for data transmission.	6460	Text	W	
18.0.2	Remote data transmission	DSfGZentState	A	The DSfG bus used for connection of active remote data transmission via DSfG-B-IP is displayed here. If there is no active remote data transmission, the text 'OFFLINE' is shown.	1562	Menü	R	
18.1.0	Bus-1 (COM3)	HEAD_18_1	A	-	1563	Titel	R	
18.1.1	Bus participants (A-P)	DSfG1BusTeilnehmer_0	P	Participants (A - P) on DSfG-Bus-1.	31100	Text	R	
18.1.2	Bus participants (Q-_)	DSfG1BusTeilnehmer_1	P	Participants (Q - _) on DSfG-Bus-1.	31120	Text	R	
18.1.3	GC instance type	DSfG1GCInstanz	B	The GC entity type is set here. The entity type applies to all GCs on DSfG bus 1. The options available for selection are entity G, the 'old' gas quality entity recognizable in DSfG data element names beginning with the lowercase letter 'd', and entity Q, the 'new' gas quality entity recognizable in data element names beginning with the lowercase letter 'q'. The entity type can vary on all DSfG buses of the RGC7-C.	1564	Menü	W	
18.1.4	GC instance S1	DSfG1AdrG_0	B	DSfG address of the GC entity on DSfG bus 1 in single stream mode or stream 1 in multistream mode.	1565	Menü	W	
18.1.5	GC instance S2	DSfG1AdrG_1	B	DSfG address of the GC entity on DSfG bus 1 stream 2 in multistream mode.	1566	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.1.6	Registration S1	DSfG1AdrR_0	B	DSfG address of the recording entity on DSfG bus 1 in single stream mode or stream 1 in multistream mode.	1569	Menü	W	
18.1.7	Registration S2	DSfG1AdrR_1	B	DSfG address of the recording entity on DSfG bus 1 stream 2 in multistream mode.	1570	Menü	W	
18.1.8	Wieser S1	DSfG1AdrW_0	B	DSfG address of the Wieser entity on DSfG bus 1 in single stream mode or stream 1 in multistream mode. In the Wieser entity, mean daily and monthly values are formed and special measured values and special signals are managed.	1573	Menü	W	
18.1.9	Wieser S2	DSfG1AdrW_1	B	DSfG address of the Wieser entity on DSfG bus 1 stream 2 in multistream mode. In the Wieser entity, mean daily and monthly values are formed and special measured values and special signals are managed.	1574	Menü	W	
18.1.10	IP Instance	DSfG1AdrD	B	DSfG address of the remote data transmission entity via DSfG-B-IP. If you wish to use the DSfG-B-IP access for bus 1, a DSfG address must be assigned here.	1577	Menü	W	
18.1.11	Password	DSfG1Password	B	Password for remote data transmission access via DSfG-B-IP on DSfG bus 1. Note: The password must contain exactly 16 characters. The characters must consist of the digits '0...9' or the letters 'A-Z' and 'a-z'. Blanks, umlauts and special characters are not permitted. This restriction is due to the fact that DSfG uses a 7-bit code for data transmission. The password is used to decide which of the available DSfG buses on the GC is used for the connection to the central station. It is therefore extremely important that the passwords for each bus are different.	6480	Text	W	
18.1.12	Freeze allowed	DSfG1FreezeAllow	B	Allows the triggering of a freeze attention telegram on DSfG bus 1.	1578	Menü	W	
18.1.13	Source of Time sync.	DSfG1ZSyncAllow	E	Allows the triggering of a time synchronization telegram on DSfG bus 1. If activated, the GC is the timing element for all other devices on DSfG bus 1.	1579	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.1.14	allowed ext. addresses	DSfG1ExtAdrs	B	When remote data transmission via DSfG-B-IP is activated, here you specify which external DSfG devices on bus 1 are to be visible for the central station. The internal devices are visible for the central station if they have been assigned a DSfG address.	6500	Text	W	
18.2.0	Bus-2 (COM4)	HEAD_18_2	A	-	1580	Titel	R	
18.2.1	Bus participants (A-P)	DSfG2BusTeilnehmer_0	P	Participants (A - P) on DSfG-Bus-2.	31140	Text	R	
18.2.2	Bus participants (Q- _)	DSfG2BusTeilnehmer_1	P	Participants (Q - _) on DSfG-Bus-2.	31160	Text	R	
18.2.3	GC instance type	DSfG2GCInstanz	B	The GC entity type is set here. The entity type applies to all GCs on DSfG bus 2. The options available for selection are entity G, the 'old' gas quality entity recognizable in DSfG data element names beginning with the lowercase letter 'd', and entity Q, the 'new' gas quality entity recognizable in data element names beginning with the lowercase letter 'q'. The entity type can vary on all DSfG buses of the RGC7-C.	1581	Menü	W	
18.2.4	GC instance S1	DSfG2AdrG_0	B	DSfG address of the GC entity on DSfG bus 2 in single stream mode or stream 1 in multistream mode.	1582	Menü	W	
18.2.5	GC instance S2	DSfG2AdrG_1	B	DSfG address of the GC entity on DSfG bus 2 stream 2 in multistream mode.	1583	Menü	W	
18.2.6	Registration S1	DSfG2AdrR_0	B	DSfG address of the recording entity on DSfG bus 2 in single stream mode or stream 1 in multistream mode.	1586	Menü	W	
18.2.7	Registration S2	DSfG2AdrR_1	B	DSfG address of the recording entity on DSfG bus 2 stream 2 in multistream mode.	1587	Menü	W	
18.2.8	Wieser S1	DSfG2AdrW_0	B	DSfG address of the Wieser entity on DSfG bus 2 in single stream mode or stream 1 in multistream mode. In the Wieser entity, mean daily and monthly values are formed and special measured values and special signals are managed.	1590	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.2.9	Wieser S2	DSfG2AdrW_1	B	DSfG address of the Wieser entity on DSfG bus 2 stream 2 in multistream mode. In the Wieser entity, mean daily and monthly values are formed and special measured values and special signals are managed.	1591	Menü	W	
18.2.10	IP Instance	DSfG2AdrD	B	DSfG address of the remote data transmission entity via DSfG-B-IP. If you wish to use the DSfG-B-IP access for bus 2, a DSfG address must be assigned here.	1594	Menü	W	
18.2.11	Password	DSfG2Password	B	Password for remote data transmission access via DSfG-B-IP on DSfG bus 2. Note: The password must contain exactly 16 characters. The characters must consist of the digits '0...9' or the letters 'A-Z' and 'a-z'. Blanks, umlauts and special characters are not permitted. This restriction is due to the fact that DSfG uses a 7-bit code for data transmission. The password is used to decide which of the available DSfG buses on the GC is used for the connection to the central station. It is therefore extremely important that the passwords for each bus are different.	4000	Text	W	
18.2.12	Freeze allowed	DSfG2FreezeAllow	B	Allows the triggering of a freeze attention telegram on DSfG bus 2.	1595	Menü	W	
18.2.13	Source of Time sync.	DSfG2ZSyncAllow	E	Allows the triggering of a time synchronization telegram on DSfG bus 2. If activated, the GC is the timing element for all other devices on DSfG bus 2.	1596	Menü	W	
18.2.14	allowed ext. addresses	DSfG2ExtAdrs	B	When remote data transmission via DSfG-B-IP is activated, here you specify which external DSfG devices on bus 2 are to be visible for the central station. The internal devices are visible for the central station if they have been assigned a DSfG address.	4020	Text	W	
18.3.0	Signature	HEAD_18_3	A	-	1940	Titel	R	
18.3.1	Signature method	SignMethodik	E	Signature: Methodology	1941	Menü	W	
18.3.2	Sender	SignAbsender	E	Signature: Identifier of sender	30920	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.3.3	New key creation	SignNeuerSchlüssel	E	Signature: Create new keys now?	1942	Menü	W	
18.3.4	Timestamp key creation	SignZeitErzeugung	P	Signature: Time of key creation	3322	Unix-time	R	
18.3.5	Timestamp key elapsed	SignZeitAblauf	A	Signature: Time of key expiration	1946	Menü	R	
18.3.6	Public key Qx1	SignPubKeyX_0	A	Signature: Public key X1	30940	Text	R	
18.3.7	Public key Qx2	SignPubKeyX_1	A	Signature: Public key X2	30960	Text	R	
18.3.8	Public key Qx3	SignPubKeyX_2	A	Signature: Public key X3	30980	Text	R	
18.3.9	Public key Qy1	SignPubKeyY_0	A	Signature: Public key Y1	31000	Text	R	
18.3.10	Public key Qy2	SignPubKeyY_1	A	Signature: Public key Y2	31020	Text	R	
18.3.11	Public key Qy3	SignPubKeyY_2	A	Signature: Public key Y3	31040	Text	R	
18.3.12	DFÜ signing	SignDfueSigniert	P	Signature: RDT signed	1943	Menü	R	
18.3.13	DFÜ signature method	SignDfueMethodik	P	Signature: RDT signing methodology	1945	Menü	R	
18.3.14	Instance selective	SignInstanzselektiv	A	Signature: Instance selective	1944	Menü	R	
18.3.15	EADR of sender	SignEADRAbsender	A	Signautre: EADR sender	31060	Text	R	
18.4.0	Preset	HEAD_18_4	A	-	1597	Titel	R	
18.4.1	CRC12 stream 1	DSfGPresetCrc12_0	B	CRC12 start value for stream 1. To ensure that the PTB custody transfer requirements are satisfied, program a value not equal to 0 here. With a start value of 0, the custody transfer seal is not transmitted.	3184	Long	W	
18.4.2	CRC12 stream 2	DSfGPresetCrc12_1	B	CRC12 start value for stream 2. To ensure that the PTB custody transfer requirements are satisfied, program a value not equal to 0 here. With a start value of 0, the custody transfer seal is not transmitted.	3186	Long	W	
18.5.0	Archives settings	HEAD_18_5	A	-	1598	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.1	AG 1 name	DSfGNameFor-AG_0	N	Archive group 1 mean hourly values part 1 uses standard queries of gas chrom. Memory depth: 2280 entries Entity Q: qic standard query (I) 3 Entity G: dic standard query 3 Filling: End of interval Channel assignment Q G value AK - qaaad daacb Superior calorific value 01 - qabad dabcb Standard density 02 - qacad daccb Relative density 03 - qadad dadcb CO2 04 - qaead daecb N2 05 - qafad dafce H2 06 - qagad - Inferior calorific value 07 - qahad - Wobbe upper 08 - qaiad - Wobbe lower 09 - qajad - Methane number 10 - qakad - Real gas factor 11 - qei dei Bit string 12	4040	Text	W	
18.5.2	AG 2 name	DSfGNameFor-AG_1	N	Archive Group 2 Cannot be used due to AKA2	4060	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.3	AG 3 name	DSfGNameFor-AG_2	N	Archive group 3 measured values part 1 uses standard queries of gas chrom. Memory depth: 960 entries Entity Q: qje standard query (II) 5 Entity G: dlc standard query 6c Filling: Measured value newly formed Channel assignment Q G value AK - qaaag daace Superior calorific value 01 - qabag dabce Standard density 02 - qaeag dhgce N2 03 - qbaag dhhce Methane 04 - qadag dhice CO2 05 - qbbag dhjce Ethane 06 - qbcag dhkce Propane 07 - qbdag dhlce i-Butane 08 - qbeag dhmce n-Butane 09 - qbfag dhnce Neopentane 10 - qbgag dhoce i-Pentane 11 - qbhag dhpce n-Pentane 12 - qbiag dhqce C6-plus 13 - qbjag dhrce O2 14 - qbkag dhsce CO 15 - qblag dhtce Ethene 16 - qbmag dhuce Propene 17 - qbnag dhvce Helium 18 - qafag dhwce H2 19 - qboag dclde Argon 20 - qei dei Bit string 21	4080	Text	W	
18.5.4	AG 4 name	DSfGNameFor-AG_3	N	Archive Group 4 Cannot be used due to AKA2	4100	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.5	AG 5 name	DSfGNameFor-AG_4	N	Archive group 5 mean hourly values part 2 uses standard queries of GC Memory depth: 2280 entries Entity Q: qjf standard query (II) 6 Entity G: dld standard query 6d Filling: End of interval Channel assignment Q G value AK - qaaad daacb Superior calorific value 01 - qabad dabcb Standard density 02 - qaead dhgcb N2 03 - qbaad dhhcb Methane 04 - qadad dhicb CO2 05 - qbbad dhjcb Ethane 06 - qbcad dhkcb Propane 07 - qbdad dhlcb i-Butane 08 - qbead dhmcb n-Butane 09 - qbfad dhncb Neopentane 10 - qbgad dhocb i-Pentane 11 - qbhad dhpcb n-Pentane 12 - qbiad dhqcb C6-plus 13 - qbjad dhrcb Oxygen 14 - qbkad dhscb CO 15 - qblad dhtcb Ethene 16 - qbmad dhucb Propene 17 - qbnad dhvcb Helium 18 - qafad dhwcb H2 19 - qboad dclb Argon 20 - qei dei Bit string 21	4120	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.6	AG 6 name	DSfGNameFor-AG_5	N	Archive group 6 reference gas part 4 uses standard query of GCs Memory depth: 700 entries Entity Q: No equivalent Entity G: djb standard query 4b Filling: Test gas results generated Channel assignment G value AK - dbca N2 01 - dbcb Methane 02 - dbcc CO2 03 - dbcd Ethane 04 - dbce Propane 05 - dbcf i-Butane 06 - dbcg n-Butane 07 - dbch Neopentane 08 - dbci i-Pentane 09 - dbcj n-Pentane 10 - dbck C6P 11 - dbcl Oxygen 12 - dbcm CO 13 - dbcn Ethene 14 - dbco Propene 15 - dbcp Helium 16 - dbcq H2 17 - daacf Superior calorific value 18 - dabcf Standard density 19 - dbbn Inferior calorific value 20	4140	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.7	AG 7 name	DSfGNameFor-AG_6	N	Archive group 7 mean daily values formed in Wieser entity Memory depth: 95 Entity W: Filling: End of day Channel assignment W value AK - wnaag Superior calorific value 01 - wnabg Standard density 02 - wnaeg N2 03 - wnagg Methane 04 - wnadg CO2 05 - wnahg Ethane 06 - wnaig Propane 07 - wnajg i-Butane 08 - wnakg n-Butane 09 - wnalg Neopentane 10 - wnamg i-Pentane 11 - wnanng n-Pentane 12 - wnaog C6-plus 13 - wnapg O2 14 - wnaqg CO 15 - wnarg Ethene 16 - wnasg Propene 17 - wnatg Helium 18 - wnafg H2 19 - wnatq Argon 20 - wnayd Bit string 21	4160	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.8	AG 8 name	DSfGNameFor-AG_7	N	Archive group 8 analyses uses standard queries of gas chromatograph Memory depth: 960 entries Entity Q: qjb standard query (II) 2 Entity G: No equivalent Filling: Measured value newly formed Channel assignment Q value AK - qbaag Methane 01 - qbbag Ethane 02 - qbcag Propane 03 - qbdag i-Butane 04 - qbeag n-Butane 05 - qbfag Neopentane 06 - qbgag i-Pentane 07 - qbhag n-Pentane 08 - qbiag C6-plus 09 - qbjag O2 10 - qbkag CO 11 - qblag Ethene 12 - qbmag Propene 13 - qbnag Helium 14 - qboag Argon 15 - qei Bit string 16	4180	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.9	AG 9 name	DSfGNameFor-AG_8	N	Archive group 9 mean monthly values formed in Wieser entity Memory depth: 24 entries Entity W: Filling: End of month W value AK - wnaah Superior calorific value 01 - wnabh Standard density 02 - wnaeh N2 03 - wnagh Methane 04 - wnadh CO2 05 - wnahh Ethane 06 - wnaih Propane 07 - wnajh i-Butane 08 - wnakh n-Butane 09 - wnalh Neopentane 10 - wnamh i-Pentane 11 - wnanh n-Pentane 12 - wnaoh C6-plus 13 - wnaph O2 14 - wnaqh CO 15 - wnarh Ethene 16 - wnash Propene 17 - wnath Helium 18 - wnafh H2 19 - wnatr Argon 20 - wnayf Bit string 21	4200	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.10	AG 10 name	DSfGNameFor-AG_9	N	Archive group 10 mean hourly value part 3 uses standard query of GC Memory depth: 2280 entries Entity Q: qjc standard query (II) 3 Entity G: No equivalent Filling: End of interval Channel assignment Q value AK - qbaad Methane 01 - qbbad Ethane 02 - qbcad Propane 03 - qbdad i-Butane 04 - qbead n-Butane 05 - qbfad Neopentane 06 - qbgad i-Pentane 07 - qbhad n-Pentane 08 - qbiad C6P 09 - qbjad O2 10 - qbkad CO 11 - qblad Ethene 12 - qbmاد Propene 13 - qbnad Helium 14 - qboad Argon 15 - qei Bit string 16	4220	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.11	AG 11 name	DSfGNameFor-AG_10	N	Archive group 11 calibration gas part 1 uses standard queries of GC Memory depth: 200 entries Entity Q: q1a standard query (IV) 1 Entity G: No equivalent Filling: Calibration result generated Channel assignment Q value AK - qfaa Quality factor 0 01 - qfab Quality factor 1 02 - qfac Quality factor 2 03 - qfad Quality factor 3 04 - qfae Quality factor 4 05 - qfaf Quality factor 5 06 - qfag Quality factor 6 07 - qfah Quality factor 7 08 - qfai Quality factor 8 09 - qfaj Quality factor 9 10 - qfak Quality factor 10 11 - qfal Quality factor 11 12 - qfam Quality factor 12 13 - qfan Quality factor 13 14 - qfao Quality factor 14 15 - qfap Quality factor 15 16 - qfaq Quality factor 16 17 - qfar Quality factor 17 18 - qfas Quality factor 18 19 - qfat Quality factor 19 20 - qfau Quality factor 20 21	4240	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.12	AG 12 name	DSfGNameFor-AG_11	N	Archive group 12 reference gas part 1 uses standard query Memory depth: 700 entries Entity Q: qka standard query (III) 1 Entity G: No equivalent Filling: Test gas result generated Channel assignment Q value AK - qaaah Superior calorific value 01 - qabah Standard density 02 - qacah Relative density 03 - qadah CO2 04 - qaeah N2 05 - qafah H2 06 - qagah Inferior calorific value 07 - qahah Wobbe upper 08 - qaiah Wobbe lower 09 - qajah Methane number 10 - qakah Real gas factor 11	4260	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.13	AG 13 name	DSfGNameFor-AG_12	N	Archive group 13 reference gas part 2 Memory depth: 700 entries Entity Q: qkc standard query (III) 3 Entity G: No equivalent Filling: Test gas result generated Channel assignment Q value AK - qaaah Superior calorific value 01 - qabah Standard density 02 - qaeah N2 03 - qbaah Methane 04 - qadah CO2 05 - qbbah Ethane 06 - qbcah Propane 07 - qbdah i-Butane 08 - qbeah n-Butane 09 - qbfah Neopentane 10 - qbgah i-Pentane 11 - qbhah n-Pentane 12 - qbiah C6P 13 - qbjah O2 14 - qbkah CO 15 - qblah Ethene 16 - qbmah Propene 17 - qbnah Helium 18 - qafah H2 19 - qboah Argon 20 - qei Bit string 21 - qagah Inferior calorific value 22	4280	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.14	AG 14 name	DSfGNameFor-AG_13	N	Archive group 14 reference gas part 3 uses standard queries of GC Memory depth: 700 entries Entity Q: qkb standard query (III) 2 Entity G: --- Filling: Test gas result generated Channel assignment Q value AK - qbaah Methane 01 - qbbah Ethane 02 - qbcah Propane 03 - qbdah i-Butane 04 - qbeah n-Butane 05 - qbfah Neopentane 06 - qbgah i-Pentane 07 - qbhah n-Pentane 08 - qbiah C6P 09 - qbjah O2 10 - qbkah CO 11 - qblah Ethene 12 - qbmah Propene 13 - qbnah Helium 14 - qboah Argon 15	4300	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.15	AG 15 name	DSfGNameFor-AG_14	N	Archive group 15 long-term archive uses standard query of the GC in Q entity Replication in Wieser entity due to missing standard query in G entity Memory depth: 70848 entries Entity Q: qid standard query (I) 4 Entity G: No equivalent Entity W: Replication in Wieser entity Filling: Quarter of an hour Channel assignment Q W value AK - qaaai wnaai Superior calorific value 01 - qabai wnabi Standard density 02 - qadai wnadi CO2 03 - qei wnayh Bit string 04	4320	Text	W	
18.5.16	AG 16 name	DSfGNameFor-AG_15	N	Archive group 16 Free	4340	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.17	AG 17 name	DSfGNameFor-AG_16	N	Archive group 17 analog values formed in Wieser entity Memory depth: 2280 entries Entity W Filling: End of interval Channel assignment W value AK - weaba Current input 1 01 - weaca Current input 2 02 - weada Current input 3 03 - weaea Current input 4 04 - weafa Current input 5 05 - weaga Current input 6 06 - weaha Reserve 07 - weaia Reserve 08 - weaja Reserve 09 - weaka Reserve 10 - weala Reserve 11 - weama Reserve 12 - weana Reserve 13 - weaoa Reserve 14 - weapa Reserve 15 - weaqa Reserve 16 - weaad Bit string limit values 17 - waaba Bit string MRG 18	4360	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.18	AG 18 name	DSfGNameFor-AG_17	N	Archive group 18 calibration gas part 2 uses standard queries of GC Memory depth: 200 entries Entity Q: No equivalent Entity G: dkb standard query 5b (without CO2 delta) Entity G: dkd standard query 5d (with CO2 delta) Filling: Calibration results Channel assignments G value AK - dbea N2 RF 01 - dbeb Methane RF 02 - dbec CO2 RF 03 - dbed Ethane RF 04 - dbee Propane RF 05 - dbef i-Butane RF 06 - dbeg n-Butane RF 07 - dbeh Neopentane RF 08 - dbei i-Pentane RF 09 - dbej n-Pentane RF 10 - dbek C6P RF 11 - dbel O2 RF 12 - dbem CO RF 13 - dben Ethene RF 14 - dbeo Propene RF 15 - dbep Helium RF 16 - dbeq H2 RF 17 - dbbb Last calibration okay 18 - dbbj Superior calorific value cal. delta 19 - dbbk Standard density cal. delta 20 - dbbq CO2 cal. delta 21	4380	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.19	AG 19 name	DSfGNameFor-AG_18	N	Archive group 19 mean hourly values part 4 uses standard query of GC Memory depth: 2280 entries Entity Q: No equivalent Entity G: dlb standard query 6b Filling: End of interval Channel assignment G value AK - dhacb Inferior calorific value 01 - dhbcb Wobbe upper 02 - dhccb Wobbe lower 03 - dhdcB Methane number 04 - dhecb Real gas factor 05 - dhfcb Unnormalized sum 06 - dhgcb N2 07 - dhhcb Methane 08 - dhicb CO2 09 - dhjcb Ethane 10 - dhkcb Propane 11 - dhlcb i-Butane 12 - dhmcb n-Butane 13 - dhncb Neopentane 14 - dhocb i-Pentane 15 - dhpcb n-Pentane 16 - dhqcb C6P 17 - dhrcb O2 18 - dhscb CO 19 - dhtcb Ethene * - dhucb Propene * - dhvcb Helium 20 - dhwcb H2 21 * Defined in standard query, not represented in archive	4400	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.20	AG 20 name	DSfGNameFor-AG_19	N	Archive group 20 measured values part 2 uses standard queries of gas chromatograph Memory depth: 960 entries Entity Q: qib standard query (I) 2 Entity G: dib standard query 2 Filling: Measured value newly formed Channel assignment Q G value AK - qaaag daace Superior calorific value 01 - qabag dabce Standard density 02 - qacag dacce Relative density 03 - qadag dadce CO2 04 - qaeag daece N2 05 - qafag dafce H2 06 - qagag - Inferior calorific value 07 - qahag - Wobbe upper 08 - qaiag - Wobbe lower 09 - qajag - Methane number 10 - qakag - Real gas factor 11 - qei dei Bit string 12	4420	Text	W	
18.5.21	AG 21 name	DSfGNameFor-AG_20	N	Archive group 21 corrected measured values uses standard query Memory depth: 960 entries Entity Q: qif standard query (I) 6 Entity G: No equivalent Filling: Corrected values newly formed Channel assignment Q value AK - qaaaj Superior calorific value 01 - qabaj Standard density 02 - qadaj CO2 03 - qei Bit string 04	4440	Text	W	
18.5.22	AG 22 name	DSfGNameFor-AG_21	N	Archive group 22 Free	4460	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.23	AG 23 name	DSfGNameFor-AG_22	N	Archive group 23 log uses standard queries of GC Memory depth: 2280 entries Entity Q: qie standard query (I) 5 Entity G: die standard query 5 Filling: Alarm, warning, hint comes+goes Event expanded to include current values Channel assignment Q G value AK - qeq deq Event number 01 - qaaaa daaa Superior calorific value 02 - qabaa daba Standard density 03 - qaeaa daea N2 04 - qbaaa dahb Methane 05 - qadaa dada CO2 06 - qbbaa dahd Ethane 07 - qbcaa dahe Propane 08 - qbdaa dahf i-Butane 09 - qbeaa dahg n-Butane 10 - qbfaa dahh Neopentane 11 - qbgaa dahi i-Pentane 12 - qbhaa dahj n-Pentane 13 - qbiaa dahk C6P 14 - qbjaa dahl O2 15 - qbkaa dahm CO 16 - qblaa dahn Ethene 17 - qbmaa dahe Propene 18 - qbnaa dahp Helium 19 - qafaa dafa H2 20 - qboaa dcl d Argon 21	4480	Text	W	
18.5.24	AG 24 name	DSfGNameFor-AG_23	N	Archive group 24 Free	4500	Text	W	
18.5.25	AG 25 name	DSfGNameFor-AG_24	N	Archive group 25 Free	4520	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.5.26	Num analysis for average	MinAnasDSfGMW	E	Minimum number of analysis for a valid 15min average. 0 = 1 analysis for 15min-av, 1 analysis for hour-av, 1 analysis for mon-av 1 = 1 analysis for 15min-av, 4 analyses for hour-av, ... 2 = 2 analyses for 15min-av, 8 analyses for hour-av,	2060	Integer	W	
18.6.0	Quality	HEAD_18_6	A	-	1599	Titel	R	
18.6.1	Quality 1	QualFact_0	A	Quality factor 1 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3094	Long	R	hex
18.6.2	Quality 2	QualFact_1	A	Quality factor 2 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3096	Long	R	hex
18.6.3	Quality 3	QualFact_2	A	Quality factor 3 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3098	Long	R	hex
18.6.4	Quality 4	QualFact_3	A	Quality factor 4 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3100	Long	R	hex
18.6.5	Quality 5	QualFact_4	A	Quality factor 5 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3102	Long	R	hex
18.6.6	Quality 6	QualFact_5	A	Quality factor 6 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3104	Long	R	hex
18.6.7	Quality 7	QualFact_6	A	Quality factor 7 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3106	Long	R	hex
18.6.8	Quality 8	QualFact_7	A	Quality factor 8 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3108	Long	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.6.9	Quality 9	QualFact_8	A	Quality factor 9 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3110	Long	R	hex
18.6.10	Quality 10	QualFact_9	A	Quality factor 10 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3112	Long	R	hex
18.6.11	Quality 11	QualFact_10	A	Quality factor 11 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3114	Long	R	hex
18.6.12	Quality 12	QualFact_11	A	Quality factor 12 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3116	Long	R	hex
18.6.13	Quality 13	QualFact_12	A	Quality factor 13 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3118	Long	R	hex
18.6.14	Quality 14	QualFact_13	A	Quality factor 14 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3120	Long	R	hex
18.6.15	Quality 15	QualFact_14	A	Quality factor 15 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3122	Long	R	hex
18.6.16	Quality 16	QualFact_15	A	Quality factor 16 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3124	Long	R	hex
18.6.17	Quality 17	QualFact_16	A	Quality factor 17 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3126	Long	R	hex
18.6.18	Quality 18	QualFact_17	A	Quality factor 18 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3128	Long	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.6.19	Quality 19	QualFact_18	A	Quality factor 19 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3130	Long	R	hex
18.6.20	Quality 20	QualFact_19	A	Quality factor 20 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3132	Long	R	hex
18.6.21	Quality 21	QualFact_20	A	Quality factor 21 The quality factors are required as per the DSfG standard for the Q entity. See the DSfG specification for further information.	3134	Long	R	hex
18.7.0	Events	HEAD_18_7	A	-	1600	Titel	R	
18.7.1	Event stream 1	DSfGEvent_S1	A	The last DSfG event for stream 1 is displayed here. Events that have come have a positive value. Events that have gone have a negative value. The event 0 means that no event has occurred since the GC was restarted. For events in the range 1...999, see the DSfG guidelines (non-proprietary, standardized). For events in the range 7000....7999, see the online documentation for the RGC7-C (events without an exact equivalent in the DSfG guidelines).	3136	Long	R	
18.7.2	Time of event	DSfGTevent_S1	A	Timestamp for DSfG event stream 1.	3138	Unix-time	R	
18.7.3	Event stream 2	DSfGEvent_S2	A	The last DSfG event for stream 2 is displayed here. Events that have come have a positive value. Events that have gone have a negative value. The event 0 means that no event has occurred since the GC was restarted. For events in the range 1...999, see the DSfG guidelines (non-proprietary, standardized). For events in the range 7000....7999, see the online documentation for the RGC7-C (events without an exact equivalent in the DSfG guidelines).	3140	Long	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
18.7.4	Time of event	DSfGTevent_S2	A	Timestamp for DSfG event stream 2.	3142	Unix-time	R	
18.8.0	Bit strings	HEAD_18_8	A	-	2026	Titel	R	
18.8.1	DSfG > Clear errors	DSfGClearErrors	P	Status bit string (all faults cleared: 1) as per DSfG standard	3154	Long	R	hex
18.8.2	DSfG > Start calib.	DSfGStartCalib	P	Status bit string (start calibration: 1) as per DSfG standard	3156	Long	R	hex
18.8.3	Calib. status	DSfGCalibStatus	P	Status bit string (calibration gas analysis) as per DSfG standard	3158	Long	R	hex
18.8.4	DSfG > Start ref.	DSfGStartRefGas	P	Status bit string (start ref. gas: 1) as per DSfG standard	3160	Long	R	hex
18.8.5	Ref. status	DSfGRefGasStatus	P	Status bit string (reference gas analysis) as per DSfG standard	3162	Long	R	hex
18.8.6	DEI S1	BitsMeas_S1	A	Status bit string (stream 1) as per DSfG standard	3164	Long	R	hex
18.8.7	DEI S2	BitsMeas_S2	A	Status bit string (stream 2) as per DSfG standard	3166	Long	R	hex
18.8.8	DEI Ref	BitsRefgas	A	Status bit string (reference gas analysis) as per DSfG standard	3172	Long	R	hex
18.8.9	BitsMRG	BitsMRG	A	Status bit string (recording entity) as per DSfG standard	3182	Long	R	hex
18.8.10	BitsLimits_S1	BitsLimits_S1	A	Status bit string (limit values stream 1) as per DSfG standard	3174	Long	R	hex
18.8.11	BitsLimits_S2	BitsLimits_S2	A	Status bit string (limit values stream 2) as per DSfG standard	3176	Long	R	hex
19.0.0	External I/O System	HEAD_19	A	-	1319	Titel	R	
19.0.1	Version no	WagoVersion	A	The optional WAGO-IO extension is normally connected to COM2. For interface->COM2, select the protocol WAGO-IO. Interface parameters are (default): 9600,8,N,1 If everything is functioning, a version number is displayed here.	1320	Integer	R	hex
19.0.2	Number ana. outputs	WagoNumberAO	A	Number of analog outputs of the WAGO module found. A max. of 16 outputs are supported.	1321	Integer	R	
19.0.3	Number ana. inputs	WagoNumberAI	A	Number of analog inputs of the WAGO module found. A max. of 16 inputs are supported.	1322	Integer	R	
19.0.4	Number dig. outputs	WagoNumberDO	A	Number of digital outputs of the WAGO module found. A max. of 4 outputs are supported.	1323	Integer	R	
19.0.5	Number dig. inputs	WagoNumberDI	A	Number of digital inputs of the WAGO module found. A max. of 4 inputs are supported.	1324	Integer	R	
19.1.0	Analog output 1	HEAD_19_1	A	-	1721	Titel	R	
19.1.1	Mode	WagoAOMode_0	N	Operating mode of the selected analog current output.	1760	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.1.2	Status	WagoAOStatus_0	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1824	Menü	R	
19.1.3	Selection	WagoAOSelect_0	N	Source (Modbus address) for the selected analog current output.	1761	Integer	W	Reg
19.1.4	Off-limit condition	WagoAOFault-Mode_0	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1792	Menü	W	
19.1.5	Physical min. value	WagoAOPhys-Min_0	N	Defines the lower limit of the physical value.	10882	Float	W	
19.1.6	Physical max. value	WagoAOPhys-Max_0	N	Defines the upper limit of the physical value.	10884	Float	W	
19.1.7	Physical value	WagoAOPhysValue_0	A	Physical value which is read from the specified Modbus register.	10886	Float	R	
19.1.8	Unit physical value	WagoAOPhysUnit_0	A	Unit of the physical value, if available.	6720	Text	R	
19.1.9	Current output	WagoAO_0	A	Physical value, converted to mA.	10888	Float	R	mA
19.1.10	Binary value	WagoAOBin_0	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1808	Integer	R	hex
19.2.0	analog output 2	HEAD_19_2	A	-	1722	Titel	R	
19.2.1	Mode	WagoAOMode_1	N	Operating mode of the selected analog current output.	1762	Menü	W	
19.2.2	Status	WagoAOStatus_1	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1825	Menü	R	
19.2.3	Selection	WagoAOSelect_1	N	Source (Modbus address) for the selected analog current output.	1763	Integer	W	Reg
19.2.4	Off-limit condition	WagoAOFault-Mode_1	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1793	Menü	W	
19.2.5	Physical min. value	WagoAOPhys-Min_1	N	Defines the lower limit of the physical value.	10890	Float	W	
19.2.6	Physical max. value	WagoAOPhys-Max_1	N	Defines the upper limit of the physical value.	10892	Float	W	
19.2.7	Physical value	WagoAOPhysValue_1	A	Physical value which is read from the specified Modbus register.	10894	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.2.8	Unit physical value	WagoAOPhysUnit_1	A	Unit of the physical value, if available.	6740	Text	R	
19.2.9	Current output	WagoAO_1	A	Physical value, converted to mA.	10896	Float	R	mA
19.2.10	Binary value	WagoAOBin_1	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1809	Integer	R	hex
19.3.0	analog output 3	HEAD_19_3	A	-	1723	Titel	R	
19.3.1	Mode	WagoAOMode_2	N	Operating mode of the selected analog current output.	1764	Menü	W	
19.3.2	Status	WagoAOStatus_2	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1826	Menü	R	
19.3.3	Selection	WagoAOSelect_2	N	Source (Modbus address) for the selected analog current output.	1765	Integer	W	Reg
19.3.4	Off-limit condition	WagoAOFault-Mode_2	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1794	Menü	W	
19.3.5	Physical min. value	WagoAOPhys-Min_2	N	Defines the lower limit of the physical value.	10898	Float	W	
19.3.6	Physical max. value	WagoAOPhys-Max_2	N	Defines the upper limit of the physical value.	10900	Float	W	
19.3.7	Physical value	WagoAOPhysValue_2	A	Physical value which is read from the specified Modbus register.	10902	Float	R	
19.3.8	Unit physical value	WagoAOPhysUnit_2	A	Unit of the physical value, if available.	6760	Text	R	
19.3.9	Current output	WagoAO_2	A	Physical value, converted to mA.	10904	Float	R	mA
19.3.10	Binary value	WagoAOBin_2	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1810	Integer	R	hex
19.4.0	analog output 4	HEAD_19_4	A	-	1724	Titel	R	
19.4.1	Mode	WagoAOMode_3	N	Operating mode of the selected analog current output.	1766	Menü	W	
19.4.2	Status	WagoAOStatus_3	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1827	Menü	R	
19.4.3	Selection	WagoAOSelect_3	N	Source (Modbus address) for the selected analog current output.	1767	Integer	W	Reg
19.4.4	Off-limit condition	WagoAOFault-Mode_3	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1795	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.4.5	Physical min. value	WagoAOPhys-Min_3	N	Defines the lower limit of the physical value.	10906	Float	W	
19.4.6	Physical max. value	WagoAOPhys-Max_3	N	Defines the upper limit of the physical value.	10908	Float	W	
19.4.7	Physical value	WagoAOPhysValue_3	A	Physical value which is read from the specified Modbus register.	10910	Float	R	
19.4.8	Unit physical value	WagoAOPhysUnit_3	A	Unit of the physical value, if available.	6780	Text	R	
19.4.9	Current output	WagoAO_3	A	Physical value, converted to mA.	10912	Float	R	mA
19.4.10	Binary value	WagoAOBin_3	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1811	Integer	R	hex
19.5.0	analog output 5	HEAD_19_5	A	-	1725	Titel	R	
19.5.1	Mode	WagoAOMode_4	N	Operating mode of the selected analog current output.	1768	Menü	W	
19.5.2	Status	WagoAOStatus_4	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1828	Menü	R	
19.5.3	Selection	WagoAOSelect_4	N	Source (Modbus address) for the selected analog current output.	1769	Integer	W	Reg
19.5.4	Off-limit condition	WagoAOFault-Mode_4	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1796	Menü	W	
19.5.5	Physical min. value	WagoAOPhys-Min_4	N	Defines the lower limit of the physical value.	10914	Float	W	
19.5.6	Physical max. value	WagoAOPhys-Max_4	N	Defines the upper limit of the physical value.	10916	Float	W	
19.5.7	Physical value	WagoAOPhysValue_4	A	Physical value which is read from the specified Modbus register.	10918	Float	R	
19.5.8	Unit physical value	WagoAOPhysUnit_4	A	Unit of the physical value, if available.	6800	Text	R	
19.5.9	Current output	WagoAO_4	A	Physical value, converted to mA.	10920	Float	R	mA
19.5.10	Binary value	WagoAOBin_4	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1812	Integer	R	hex
19.6.0	analog output 6	HEAD_19_6	A	-	1726	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.6.1	Mode	WagoAOMode_5	N	Operating mode of the selected analog current output.	1770	Menü	W	
19.6.2	Status	WagoAOStatus_5	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1829	Menü	R	
19.6.3	Selection	WagoAOSelect_5	N	Source (Modbus address) for the selected analog current output.	1771	Integer	W	Reg
19.6.4	Off-limit condition	WagoAOFault-Mode_5	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1797	Menü	W	
19.6.5	Physical min. value	WagoAOPhys-Min_5	N	Defines the lower limit of the physical value.	10922	Float	W	
19.6.6	Physical max. value	WagoAOPhys-Max_5	N	Defines the upper limit of the physical value.	10924	Float	W	
19.6.7	Physical value	WagoAOPhysValue_5	A	Physical value which is read from the specified Modbus register.	10926	Float	R	
19.6.8	Unit physical value	WagoAOPhysUnit_5	A	Unit of the physical value, if available.	6820	Text	R	
19.6.9	Current output	WagoAO_5	A	Physical value, converted to mA.	10928	Float	R	mA
19.6.10	Binary value	WagoAOBin_5	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1813	Integer	R	hex
19.7.0	analog output 7	HEAD_19_7	A	-	1727	Titel	R	
19.7.1	Mode	WagoAOMode_6	N	Operating mode of the selected analog current output.	1772	Menü	W	
19.7.2	Status	WagoAOStatus_6	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1830	Menü	R	
19.7.3	Selection	WagoAOSelect_6	N	Source (Modbus address) for the selected analog current output.	1773	Integer	W	Reg
19.7.4	Off-limit condition	WagoAOFault-Mode_6	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1798	Menü	W	
19.7.5	Physical min. value	WagoAOPhys-Min_6	N	Defines the lower limit of the physical value.	10930	Float	W	
19.7.6	Physical max. value	WagoAOPhys-Max_6	N	Defines the upper limit of the physical value.	10932	Float	W	
19.7.7	Physical value	WagoAOPhysValue_6	A	Physical value which is read from the specified Modbus register.	10934	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.7.8	Unit physical value	WagoAOPhysUnit_6	A	Unit of the physical value, if available.	6840	Text	R	
19.7.9	Current output	WagoAO_6	A	Physical value, converted to mA.	10936	Float	R	mA
19.7.10	Binary value	WagoAOBin_6	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1814	Integer	R	hex
19.8.0	analog output 8	HEAD_19_8	A	-	1728	Titel	R	
19.8.1	Mode	WagoAOMode_7	N	Operating mode of the selected analog current output.	1774	Menü	W	
19.8.2	Status	WagoAOStatus_7	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1831	Menü	R	
19.8.3	Selection	WagoAOSelect_7	N	Source (Modbus address) for the selected analog current output.	1775	Integer	W	Reg
19.8.4	Off-limit condition	WagoAOFault-Mode_7	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1799	Menü	W	
19.8.5	Physical min. value	WagoAOPhys-Min_7	N	Defines the lower limit of the physical value.	10938	Float	W	
19.8.6	Physical max. value	WagoAOPhys-Max_7	N	Defines the upper limit of the physical value.	10940	Float	W	
19.8.7	Physical value	WagoAOPhysValue_7	A	Physical value which is read from the specified Modbus register.	10942	Float	R	
19.8.8	Unit physical value	WagoAOPhysUnit_7	A	Unit of the physical value, if available.	6860	Text	R	
19.8.9	Current output	WagoAO_7	A	Physical value, converted to mA.	10944	Float	R	mA
19.8.10	Binary value	WagoAOBin_7	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1815	Integer	R	hex
19.9.0	analog output 9	HEAD_19_9	A	-	1729	Titel	R	
19.9.1	Mode	WagoAOMode_8	N	Operating mode of the selected analog current output.	1776	Menü	W	
19.9.2	Status	WagoAOStatus_8	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1832	Menü	R	
19.9.3	Selection	WagoAOSelect_8	N	Source (Modbus address) for the selected analog current output.	1777	Integer	W	Reg
19.9.4	Off-limit condition	WagoAOFault-Mode_8	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1800	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.9.5	Physical min. value	WagoAOPhys-Min_8	N	Defines the lower limit of the physical value.	10946	Float	W	
19.9.6	Physical max. value	WagoAOPhys-Max_8	N	Defines the upper limit of the physical value.	10948	Float	W	
19.9.7	Physical value	WagoAOPhysValue_8	A	Physical value which is read from the specified Modbus register.	10950	Float	R	
19.9.8	Unit physical value	WagoAOPhysUnit_8	A	Unit of the physical value, if available.	6880	Text	R	
19.9.9	Current output	WagoAO_8	A	Physical value, converted to mA.	10952	Float	R	mA
19.9.10	Binary value	WagoAOBin_8	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1816	Integer	R	hex
19.10.0	analog output 10	HEAD_19_10	A	-	1730	Titel	R	
19.10.1	Mode	WagoAOMode_9	N	Operating mode of the selected analog current output.	1778	Menü	W	
19.10.2	Status	WagoAOStatus_9	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1833	Menü	R	
19.10.3	Selection	WagoAOSelect_9	N	Source (Modbus address) for the selected analog current output.	1779	Integer	W	Reg
19.10.4	Off-limit condition	WagoAOFault-Mode_9	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1801	Menü	W	
19.10.5	Physical min. value	WagoAOPhys-Min_9	N	Defines the lower limit of the physical value.	10954	Float	W	
19.10.6	Physical max. value	WagoAOPhys-Max_9	N	Defines the upper limit of the physical value.	10956	Float	W	
19.10.7	Physical value	WagoAOPhysValue_9	A	Physical value which is read from the specified Modbus register.	10958	Float	R	
19.10.8	Unit physical value	WagoAOPhysUnit_9	A	Unit of the physical value, if available.	6900	Text	R	
19.10.9	Current output	WagoAO_9	A	Physical value, converted to mA.	10960	Float	R	mA
19.10.10	Binary value	WagoAOBin_9	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1817	Integer	R	hex
19.11.0	analog output 11	HEAD_19_11	A	-	1731	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.11.1	Mode	WagoAOMode_10	N	Operating mode of the selected analog current output.	1780	Menü	W	
19.11.2	Status	WagoAOStatus_10	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1834	Menü	R	
19.11.3	Selection	WagoAOSelect_10	N	Source (Modbus address) for the selected analog current output.	1781	Integer	W	Reg
19.11.4	Off-limit condition	WagoAOFault-Mode_10	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1802	Menü	W	
19.11.5	Physical min. value	WagoAOPhys-Min_10	N	Defines the lower limit of the physical value.	10962	Float	W	
19.11.6	Physical max. value	WagoAOPhys-Max_10	N	Defines the upper limit of the physical value.	10964	Float	W	
19.11.7	Physical value	WagoAOPhysValue_10	A	Physical value which is read from the specified Modbus register.	10966	Float	R	
19.11.8	Unit physical value	WagoAOPhysUnit_10	A	Unit of the physical value, if available.	6920	Text	R	
19.11.9	Current output	WagoAO_10	A	Physical value, converted to mA.	10968	Float	R	mA
19.11.10	Binary value	WagoAOBin_10	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1818	Integer	R	hex
19.12.0	analog output 12	HEAD_19_12	A	-	1732	Titel	R	
19.12.1	Mode	WagoAOMode_11	N	Operating mode of the selected analog current output.	1782	Menü	W	
19.12.2	Status	WagoAOStatus_11	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1835	Menü	R	
19.12.3	Selection	WagoAOSelect_11	N	Source (Modbus address) for the selected analog current output.	1783	Integer	W	Reg
19.12.4	Off-limit condition	WagoAOFault-Mode_11	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1803	Menü	W	
19.12.5	Physical min. value	WagoAOPhys-Min_11	N	Defines the lower limit of the physical value.	10970	Float	W	
19.12.6	Physical max. value	WagoAOPhys-Max_11	N	Defines the upper limit of the physical value.	10972	Float	W	
19.12.7	Physical value	WagoAOPhysValue_11	A	Physical value which is read from the specified Modbus register.	10974	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.12.8	Unit physical value	WagoAOPhysUnit_11	A	Unit of the physical value, if available.	6940	Text	R	
19.12.9	Current output	WagoAO_11	A	Physical value, converted to mA.	10976	Float	R	mA
19.12.10	Binary value	WagoAOBin_11	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1819	Integer	R	hex
19.13.0	analog output 13	HEAD_19_13	A	-	1733	Titel	R	
19.13.1	Mode	WagoAOMode_12	N	Operating mode of the selected analog current output.	1784	Menü	W	
19.13.2	Status	WagoAOStatus_12	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1836	Menü	R	
19.13.3	Selection	WagoAOSelect_12	N	Source (Modbus address) for the selected analog current output.	1785	Integer	W	Reg
19.13.4	Off-limit condition	WagoAOFault-Mode_12	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1804	Menü	W	
19.13.5	Physical min. value	WagoAOPhys-Min_12	N	Defines the lower limit of the physical value.	10978	Float	W	
19.13.6	Physical max. value	WagoAOPhys-Max_12	N	Defines the upper limit of the physical value.	10980	Float	W	
19.13.7	Physical value	WagoAOPhysValue_12	A	Physical value which is read from the specified Modbus register.	10982	Float	R	
19.13.8	Unit physical value	WagoAOPhysUnit_12	A	Unit of the physical value, if available.	6960	Text	R	
19.13.9	Current output	WagoAO_12	A	Physical value, converted to mA.	10984	Float	R	mA
19.13.10	Binary value	WagoAOBin_12	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1820	Integer	R	hex
19.14.0	Analog output 14	HEAD_19_14	A	-	1734	Titel	R	
19.14.1	Mode	WagoAOMode_13	N	Operating mode of the selected analog current output.	1786	Menü	W	
19.14.2	Status	WagoAOStatus_13	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1837	Menü	R	
19.14.3	Selection	WagoAOSelect_13	N	Source (Modbus address) for the selected analog current output.	1787	Integer	W	Reg
19.14.4	Off-limit condition	WagoAOFault-Mode_13	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1805	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.14.5	Physical min. value	WagoAOPhys-Min_13	N	Defines the lower limit of the physical value.	10986	Float	W	
19.14.6	Physical max. value	WagoAOPhys-Max_13	N	Defines the upper limit of the physical value.	10988	Float	W	
19.14.7	Physical value	WagoAOPhysValue_13	A	Physical value which is read from the specified Modbus register.	10990	Float	R	
19.14.8	Unit physical value	WagoAOPhysUnit_13	A	Unit of the physical value, if available.	6980	Text	R	
19.14.9	Current output	WagoAO_13	A	Physical value, converted to mA.	10992	Float	R	mA
19.14.10	Binary value	WagoAOBin_13	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1821	Integer	R	hex
19.15.0	Analog output 15	HEAD_19_15	A	-	1735	Titel	R	
19.15.1	Mode	WagoAOMode_14	N	Operating mode of the selected analog current output.	1788	Menü	W	
19.15.2	Status	WagoAOStatus_14	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1838	Menü	R	
19.15.3	Selection	WagoAOSelect_14	N	Source (Modbus address) for the selected analog current output.	1789	Integer	W	Reg
19.15.4	Off-limit condition	WagoAOFault-Mode_14	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1806	Menü	W	
19.15.5	Physical min. value	WagoAOPhys-Min_14	N	Defines the lower limit of the physical value.	10994	Float	W	
19.15.6	Physical max. value	WagoAOPhys-Max_14	N	Defines the upper limit of the physical value.	10996	Float	W	
19.15.7	Physical value	WagoAOPhysValue_14	A	Physical value which is read from the specified Modbus register.	10998	Float	R	
19.15.8	Unit physical value	WagoAOPhysUnit_14	A	Unit of the physical value, if available.	30500	Text	R	
19.15.9	Current output	WagoAO_14	A	Physical value, converted to mA.	11000	Float	R	mA
19.15.10	Binary value	WagoAOBin_14	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1822	Integer	R	hex
19.16.0	Analog output 16	HEAD_19_16	A	-	1736	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.16.1	Mode	WagoAOMode_15	N	Operating mode of the selected analog current output.	1790	Menü	W	
19.16.2	Status	WagoAOStatus_15	A	Status of the selected analog current output (OK/ERROR/NOT AVAILABLE)	1839	Menü	R	
19.16.3	Selection	WagoAOSelect_15	N	Source (Modbus address) for the selected analog current output.	1791	Integer	W	Reg
19.16.4	Off-limit condition	WagoAOFault-Mode_15	N	Specifies whether an alarm message or a warning is generated in case of a limit value violation.	1807	Menü	W	
19.16.5	Physical min. value	WagoAOPhys-Min_15	N	Defines the lower limit of the physical value.	11002	Float	W	
19.16.6	Physical max. value	WagoAOPhys-Max_15	N	Defines the upper limit of the physical value.	11004	Float	W	
19.16.7	Physical value	WagoAOPhysValue_15	A	Physical value which is read from the specified Modbus register.	11006	Float	R	
19.16.8	Unit physical value	WagoAOPhysUnit_15	A	Unit of the physical value, if available.	30520	Text	R	
19.16.9	Current output	WagoAO_15	A	Physical value, converted to mA.	11008	Float	R	mA
19.16.10	Binary value	WagoAOBin_15	A	Binary value, which is transferred to the WAGO module. This value corresponds to the mA value.	1823	Integer	R	hex
19.17.0	Analog input 1	HEAD_19_17	A	-	1705	Titel	R	
19.17.1	Mode	WagoAIMode_0	N	Operating mode of the selected analog current input.	1744	Menü	W	
19.17.2	Status	WagoAIStatus_0	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1689	Menü	R	
19.17.3	Value	WagoAI_0	A	Value, which is transferred from the WAGO module to the current input.	1343	Integer	R	hex
19.17.4	Value	WagoAIvalue_0	A	mA value calculated from the transferred binary value.	10850	Float	R	mA
19.18.0	Analog input 2	HEAD_19_18	A	-	1706	Titel	R	
19.18.1	Mode	WagoAIMode_1	N	Operating mode of the selected analog current input.	1745	Menü	W	
19.18.2	Status	WagoAIStatus_1	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1690	Menü	R	
19.18.3	Value	WagoAI_1	A	Value, which is transferred from the WAGO module to the current input.	1344	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.18.4	Value	WagoAlvalue_1	A	mA value calculated from the transferred binary value.	10852	Float	R	mA
19.19.0	Analog input 3	HEAD_19_19	A	-	1707	Titel	R	
19.19.1	Mode	WagoAIMode_2	N	Operating mode of the selected analog current input.	1746	Menü	W	
19.19.2	Status	WagoAIStatus_2	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1691	Menü	R	
19.19.3	Value	WagoAI_2	A	Value, which is transferred from the WAGO module to the current input.	1345	Integer	R	hex
19.19.4	Value	WagoAlvalue_2	A	mA value calculated from the transferred binary value.	10854	Float	R	mA
19.20.0	Analog input 4	HEAD_19_20	A	-	1708	Titel	R	
19.20.1	Mode	WagoAIMode_3	N	Operating mode of the selected analog current input.	1747	Menü	W	
19.20.2	Status	WagoAIStatus_3	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1692	Menü	R	
19.20.3	Value	WagoAI_3	A	Value, which is transferred from the WAGO module to the current input.	1346	Integer	R	hex
19.20.4	Value	WagoAlvalue_3	A	mA value calculated from the transferred binary value.	10856	Float	R	mA
19.21.0	Analog input 5	HEAD_19_21	A	-	1709	Titel	R	
19.21.1	Mode	WagoAIMode_4	N	Operating mode of the selected analog current input.	1748	Menü	W	
19.21.2	Status	WagoAIStatus_4	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1693	Menü	R	
19.21.3	Value	WagoAI_4	A	Value, which is transferred from the WAGO module to the current input.	1347	Integer	R	hex
19.21.4	Value	WagoAlvalue_4	A	mA value calculated from the transferred binary value.	10858	Float	R	mA
19.22.0	Analog input 6	HEAD_19_22	A	-	1710	Titel	R	
19.22.1	Mode	WagoAIMode_5	N	Operating mode of the selected analog current input.	1749	Menü	W	
19.22.2	Status	WagoAIStatus_5	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1694	Menü	R	
19.22.3	Value	WagoAI_5	A	Value, which is transferred from the WAGO module to the current input.	1348	Integer	R	hex
19.22.4	Value	WagoAlvalue_5	A	mA value calculated from the transferred binary value.	10860	Float	R	mA

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.23.0	Analog input 7	HEAD_19_23	A	-	1711	Titel	R	
19.23.1	Mode	WagoAIMode_6	N	Operating mode of the selected analog current input.	1750	Menü	W	
19.23.2	Status	WagoAIStatus_6	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1695	Menü	R	
19.23.3	Value	WagoAI_6	A	Value, which is transferred from the WAGO module to the current input.	1349	Integer	R	hex
19.23.4	Value	WagoAIvalue_6	A	mA value calculated from the transferred binary value.	10862	Float	R	mA
19.24.0	Analog input 8	HEAD_19_24	A	-	1712	Titel	R	
19.24.1	Mode	WagoAIMode_7	N	Operating mode of the selected analog current input.	1751	Menü	W	
19.24.2	Status	WagoAIStatus_7	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1696	Menü	R	
19.24.3	Value	WagoAI_7	A	Value, which is transferred from the WAGO module to the current input.	1350	Integer	R	hex
19.24.4	Value	WagoAIvalue_7	A	mA value calculated from the transferred binary value.	10864	Float	R	mA
19.25.0	Analog input 9	HEAD_19_25	A	-	1713	Titel	R	
19.25.1	Mode	WagoAIMode_8	N	Operating mode of the selected analog current input.	1752	Menü	W	
19.25.2	Status	WagoAIStatus_8	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1697	Menü	R	
19.25.3	Value	WagoAI_8	A	Value, which is transferred from the WAGO module to the current input.	1351	Integer	R	hex
19.25.4	Value	WagoAIvalue_8	A	mA value calculated from the transferred binary value.	10866	Float	R	mA
19.26.0	Analog input 10	HEAD_19_26	A	-	1714	Titel	R	
19.26.1	Mode	WagoAIMode_9	N	Operating mode of the selected analog current input.	1753	Menü	W	
19.26.2	Status	WagoAIStatus_9	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1698	Menü	R	
19.26.3	Value	WagoAI_9	A	Value, which is transferred from the WAGO module to the current input.	1352	Integer	R	hex
19.26.4	Value	WagoAIvalue_9	A	mA value calculated from the transferred binary value.	10868	Float	R	mA
19.27.0	Analog input 11	HEAD_19_27	A	-	1715	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.27.1	Mode	WagoAIMode_10	N	Operating mode of the selected analog current input.	1754	Menü	W	
19.27.2	Status	WagoAIStatus_10	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1699	Menü	R	
19.27.3	Value	WagoAI_10	A	Value, which is transferred from the WAGO module to the current input.	1353	Integer	R	hex
19.27.4	Value	WagoAIvalue_10	A	mA value calculated from the transferred binary value.	10870	Float	R	mA
19.28.0	Analog input 12	HEAD_19_28	A	-	1716	Titel	R	
19.28.1	Mode	WagoAIMode_11	N	Operating mode of the selected analog current input.	1755	Menü	W	
19.28.2	Status	WagoAIStatus_11	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1700	Menü	R	
19.28.3	Value	WagoAI_11	A	Value, which is transferred from the WAGO module to the current input.	1354	Integer	R	hex
19.28.4	Value	WagoAIvalue_11	A	mA value calculated from the transferred binary value.	10872	Float	R	mA
19.29.0	Analog input 13	HEAD_19_29	A	-	1717	Titel	R	
19.29.1	Mode	WagoAIMode_12	N	Operating mode of the selected analog current input.	1756	Menü	W	
19.29.2	Status	WagoAIStatus_12	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1701	Menü	R	
19.29.3	Value	WagoAI_12	A	Value, which is transferred from the WAGO module to the current input.	1355	Integer	R	hex
19.29.4	Value	WagoAIvalue_12	A	mA value calculated from the transferred binary value.	10874	Float	R	mA
19.30.0	Analog input 14	HEAD_19_30	A	-	1718	Titel	R	
19.30.1	Mode	WagoAIMode_13	N	Operating mode of the selected analog current input.	1757	Menü	W	
19.30.2	Status	WagoAIStatus_13	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1702	Menü	R	
19.30.3	Value	WagoAI_13	A	Value, which is transferred from the WAGO module to the current input.	1356	Integer	R	hex
19.30.4	Value	WagoAIvalue_13	A	mA value calculated from the transferred binary value.	10876	Float	R	mA
19.31.0	Analog input 15	HEAD_19_31	A	-	1719	Titel	R	
19.31.1	Mode	WagoAIMode_14	N	Operating mode of the selected analog current input.	1758	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.31.2	Status	WagoAIStatus_14	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1904	Menü	R	
19.31.3	Value	WagoAI_14	A	Value, which is transferred from the WAGO module to the current input.	1703	Integer	R	hex
19.31.4	Value	WagoAIvalue_14	A	mA value calculated from the transferred binary value.	10878	Float	R	mA
19.32.0	Analog input 16	HEAD_19_32	A	-	1720	Titel	R	
19.32.1	Mode	WagoAIMode_15	N	Operating mode of the selected analog current input.	1759	Menü	W	
19.32.2	Status	WagoAIStatus_15	A	Status of the selected analog current input (OK/ERROR/NOT AVAILABLE)	1905	Menü	R	
19.32.3	Value	WagoAI_15	A	Value, which is transferred from the WAGO module to the current input.	1704	Integer	R	hex
19.32.4	Value	WagoAIvalue_15	A	mA value calculated from the transferred binary value.	10880	Float	R	mA
19.33.0	Digital output 1	HEAD_19_33	A	-	1359	Titel	R	
19.33.1	Value	WagoDO_0	A	Value transferred from the RGC7-C to the WAGO module for output via the additional digital outputs 1 through 16. 16-bit hexadecimal value.	1360	Integer	R	hex
19.33.2	Selection dig. outp. 1	WagoDOSelect_0	N	Number of fault/warning/note for WAGO module for digital output 1	2208	Integer	W	
19.33.3	Fault dig. outp. 1	WagoDOSelect-Name_0	A	Text of fault/warning/note for WAGO module for digital output 1		Text	R	
19.33.4	Selection dig. outp. 2	WagoDOSelect_1	N	Number of fault/warning/note for WAGO module for digital output 2	2209	Integer	W	
19.33.5	Fault dig. outp. 2	WagoDOSelect-Name_1	A	Text of fault/warning/note for WAGO module for digital output 2		Text	R	
19.33.6	Selection dig. outp. 3	WagoDOSelect_2	N	Number of fault/warning/note for WAGO module for digital output 3	2210	Integer	W	
19.33.7	Fault dig. outp. 3	WagoDOSelect-Name_2	A	Text of fault/warning/note for WAGO module for digital output 3		Text	R	
19.33.8	Selection dig. outp. 4	WagoDOSelect_3	N	Number of fault/warning/note for WAGO module for digital output 4	2211	Integer	W	

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
19.33.9	Fault dig. outp. 4	WagoDOSelect- Name_3	A	Text of fault/warning/note for WAGO module for digital output 4		Text	R	
19.33.10	Selection dig. outp. 5	WagoDOSelect_4	N	Number of fault/warning/note for WAGO module for digital output 5	2212	Integer	W	
19.33.11	Fault dig. outp. 5	WagoDOSelect- Name_4	A	Text of fault/warning/note for WAGO module for digital output 5		Text	R	
19.33.12	Selection dig. outp. 6	WagoDOSelect_5	N	Number of fault/warning/note for WAGO module for digital output 6	2213	Integer	W	
19.33.13	Fault dig. outp. 6	WagoDOSelect- Name_5	A	Text of fault/warning/note for WAGO module for digital output 6		Text	R	
19.33.14	Selection dig. outp. 7	WagoDOSelect_6	N	Number of fault/warning/note for WAGO module for digital output 7	2214	Integer	W	
19.33.15	Fault dig. outp. 7	WagoDOSelect- Name_6	A	Text of fault/warning/note for WAGO module for digital output 7		Text	R	
19.33.16	Selection dig. outp. 8	WagoDOSelect_7	N	Number of fault/warning/note for WAGO module for digital output 8	2215	Integer	W	
19.33.18	Fault dig. outp. 8	WagoDOSelect- Name_7	A	Text of fault/warning/note for WAGO module for digital output 8		Text	R	
19.33.19	Selection dig. outp. 9	WagoDOSelect_8	N	Number of fault/warning/note for WAGO module for digital output 9	2216	Integer	W	
19.33.20	Fault dig. outp. 9	WagoDOSelect- Name_8	A	Text of fault/warning/note for WAGO module for digital output 9		Text	R	
19.33.21	Selection dig. outp. 10	WagoDOSelect_9	N	Number of fault/warning/note for WAGO module for digital output 10	2217	Integer	W	
19.33.22	Fault dig. outp. 10	WagoDOSelect- Name_9	A	Text of fault/warning/note for WAGO module for digital output 10		Text	R	
19.33.23	Selection dig. outp. 11	WagoDOSelect_10	N	Number of fault/warning/note for WAGO module for digital output 11	2218	Integer	W	
19.33.24	Fault dig. outp. 11	WagoDOSelect- Name_10	A	Text of fault/warning/note for WAGO module for digital output 11		Text	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.33.25	Selection dig. outp. 12	WagoDOSelect_11	N	Number of fault/warning/note for WAGO module for digital output 12	2219	Integer	W	
19.33.26	Fault dig. outp. 12	WagoDOSelect-Name_11	A	Text of fault/warning/note for WAGO module for digital output 12		Text	R	
19.33.27	Selection dig. outp. 13	WagoDOSelect_12	N	Number of fault/warning/note for WAGO module for digital output 13	2220	Integer	W	
19.33.28	Fault dig. outp. 13	WagoDOSelect-Name_12	A	Text of fault/warning/note for WAGO module for digital output 13		Text	R	
19.33.29	Selection dig. outp. 14	WagoDOSelect_13	N	Number of fault/warning/note for WAGO module for digital output 14	2221	Integer	W	
19.33.30	Fault dig. outp. 14	WagoDOSelect-Name_13	A	Text of fault/warning/note for WAGO module for digital output 14		Text	R	
19.33.31	Selection dig. outp. 15	WagoDOSelect_14	N	Number of fault/warning/note for WAGO module for digital output 15	2222	Integer	W	
19.33.32	Fault dig. outp. 15	WagoDOSelect-Name_14	A	Text of fault/warning/note for WAGO module for digital output 15		Text	R	
19.33.33	Selection dig. outp. 16	WagoDOSelect_15	N	Number of fault/warning/note for WAGO module for digital output 16	2223	Integer	W	
19.33.34	Fault dig. outp. 16	WagoDOSelect-Name_15	A	Text of fault/warning/note for WAGO module for digital output 16		Text	R	
19.34.0	Digital output 2	HEAD_19_34	A	-	1737	Titel	R	
19.34.1	Value	WagoDO_1	A	Value transferred from the RGC7-C to the WAGO module for output via the additional digital outputs 17 through 32. 16-bit hexadecimal value.	1361	Integer	R	hex
19.35.0	Digital output 3	HEAD_19_35	A	-	1738	Titel	R	
19.35.1	Value	WagoDO_2	A	Value transferred from the RGC7-C to the WAGO module for output via the additional digital outputs 33 through 48. 16-bit hexadecimal value.	1362	Integer	R	hex
19.36.0	Digital output 4	HEAD_19_36	A	-	1739	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
19.36.1	Value	WagoDO_3	A	Value transferred from the RGC7-C to the WAGO module for output via the additional digital outputs 49 through 64. 16-bit hexadecimal value.	1363	Integer	R	hex
19.37.0	Digital input 1	HEAD_19_37	A	-	1740	Titel	R	
19.37.1	Value	WagoDI_0	A	Value transferred to the RGC7-C from the WAGO module, formed from the switching states of the additional digital inputs 1 through 16. 16-bit hexadecimal value.	1365	Integer	R	hex
19.38.0	Digital input 2	HEAD_19_38	A	-	1741	Titel	R	
19.38.1	Value	WagoDI_1	A	Value transferred to the RGC7-C from the WAGO module, formed from the switching states of the additional digital inputs 17 through 32. 16-bit hexadecimal value.	1366	Integer	R	hex
19.39.0	Digital input 3	HEAD_19_39	A	-	1742	Titel	R	
19.39.1	Value	WagoDI_2	A	Value transferred to the RGC7-C from the WAGO module, formed from the switching states of the additional digital inputs 33 through 48. 16-bit hexadecimal value.	1367	Integer	R	hex
19.40.0	Digital input 4	HEAD_19_40	A	-	1743	Titel	R	
19.40.1	Value	WagoDI_3	A	Value transferred to the RGC7-C from the WAGO module, formed from the switching states of the additional digital inputs 49 through 64. 16-bit hexadecimal value.	1368	Integer	R	hex
20.0.0	Fault and status	HEAD_20	A	-	1369	Titel	R	
20.1.0	Fault	HEAD_20_1	A	-	1370	Titel	R	
20.1.1	Quit faults	AlarmQuit	N	Faults are acknowledged here: Set mode to 'YES' and all faults that are no longer present are acknowledged. The mode is then reset to 'NO'.	1371	Menü	W	
20.1.2	Fault bit 0-15	ErrorTab_0	A	A bit is set for each fault present. Bits 0 through 15 are displayed as hexadecimal numbers.	1372	Integer	R	hex
20.1.3	Fault bit 16-31	ErrorTab_1	A	A bit is set for each fault present. Bits 16 through 31 are displayed as hexadecimal numbers.	1373	Integer	R	hex
20.1.4	Fault bit 32-47	ErrorTab_2	A	A bit is set for each fault present. Bits 32 through 47 are displayed as hexadecimal numbers.	1374	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
20.1.5	Fault bit 48-63	ErrorTab_3	A	A bit is set for each fault present. Bits 48 through 63 are displayed as hexadecimal numbers.	1375	Integer	R	hex
20.1.6	Fault bit 64-79	ErrorTab_4	A	A bit is set for each fault present. Bits 64 through 79 are displayed as hexadecimal numbers.	1376	Integer	R	hex
20.1.7	Fault bit 80-95	ErrorTab_5	A	A bit is set for each fault present. Bits 80 through 95 are displayed as hexadecimal numbers.	1377	Integer	R	hex
20.1.8	Fault bit 96-111	ErrorTab_6	A	A bit is set for each fault present. Bits 96 through 111 are displayed as hexadecimal numbers.	1378	Integer	R	hex
20.1.9	Fault bit 112-127	ErrorTab_7	A	A bit is set for each fault present. Bits 112 through 127 are displayed as hexadecimal numbers.	1379	Integer	R	hex
20.1.10	Fault bit 128-143	ErrorTab_8	A	A bit is set for each fault present. Bits 128 through 143 are displayed as hexadecimal numbers.	1380	Integer	R	hex
20.1.11	Fault bit 144-159	ErrorTab_9	A	A bit is set for each fault present. Bits 144 through 159 are displayed as hexadecimal numbers.	1381	Integer	R	hex
20.1.12	Fault bit 160-175	ErrorTab_10	A	A bit is set for each fault present. Bits 160 through 175 are displayed as hexadecimal numbers.	1382	Integer	R	hex
20.1.13	Fault bit 176-191	ErrorTab_11	A	A bit is set for each fault present. Bits 176 through 191 are displayed as hexadecimal numbers.	1383	Integer	R	hex
20.1.14	Fault bit 192-207	ErrorTab_12	A	A bit is set for each fault present. Bits 192 through 207 are displayed as hexadecimal numbers.	1384	Integer	R	hex
20.1.15	Fault bit 208-223	ErrorTab_13	A	A bit is set for each fault present. Bits 208 through 223 are displayed as hexadecimal numbers.	1385	Integer	R	hex
20.1.16	Fault bit 224-239	ErrorTab_14	A	A bit is set for each fault present. Bits 224 through 239 are displayed as hexadecimal numbers.	1386	Integer	R	hex
20.1.17	Fault bit 240-255	ErrorTab_15	A	A bit is set for each fault present. Bits 240 through 255 are displayed as hexadecimal numbers.	1840	Integer	R	hex
20.1.18	Fault bit 256-271	ErrorTab_16	A	A bit is set for each fault present. Bits 256 through 271 are displayed as hexadecimal numbers.	1841	Integer	R	hex
20.1.19	Fault bit 272-287	ErrorTab_17	A	A bit is set for each fault present. Bits 272 through 287 are displayed as hexadecimal numbers.	1842	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
20.1.20	Fault bit 288-303	ErrorTab_18	A	A bit is set for each fault present. Bits 288 through 303 are displayed as hexadecimal numbers.	1843	Integer	R	hex
20.1.21	Fault bit 304-319	ErrorTab_19	A	A bit is set for each fault present. Bits 304 through 319 are displayed as hexadecimal numbers.	1844	Integer	R	hex
20.1.22	Fault bit 320-335	ErrorTab_20	A	A bit is set for each fault present. Bits 320 through 335 are displayed as hexadecimal numbers.	1845	Integer	R	hex
20.1.23	Fault bit 336-351	ErrorTab_21	A	A bit is set for each fault present. Bits 336 through 351 are displayed as hexadecimal numbers.	2024	Integer	R	hex
20.1.24	Fault bit 352-367	ErrorTab_22	A	A bit is set for each fault present. Bits 352 through 367 are displayed as hexadecimal numbers.	2025	Integer	R	hex
20.1.25	Fault bit 368-383	ErrorTab_23	A	A bit is set for each fault present. Bits 368 through 383 are displayed as hexadecimal numbers.	2027	Integer	R	hex
20.1.26	Fault bit 384-399	ErrorTab_24	A	A bit is set for each fault present. Bits 384 through 399 are displayed as hexadecimal numbers.	2028	Integer	R	hex
20.1.27	Fault bit 400-415	ErrorTab_25	A	A bit is set for each fault present. Bits 400 through 415 are displayed as hexadecimal numbers.	2029	Integer	R	hex
20.1.28	Fault bit 416-431	ErrorTab_26	A	A bit is set for each fault present. Bits 416 through 431 are displayed as hexadecimal numbers.	2030	Integer	R	hex
20.1.29	Fault bit 432-447	ErrorTab_27	A	A bit is set for each fault present. Bits 432 through 447 are displayed as hexadecimal numbers.	2031	Integer	R	hex
20.1.30	Fault bit 448-463	ErrorTab_28	A	A bit is set for each fault present. Bits 448 through 463 are displayed as hexadecimal numbers.	2032	Integer	R	hex
20.1.31	Fault bit 464-479	ErrorTab_29	A	A bit is set for each fault present. Bits 464 through 479 are displayed as hexadecimal numbers.	2033	Integer	R	hex
20.1.32	Fault bit 480-495	ErrorTab_30	A	A bit is set for each fault present. Bits 480 through 495 are displayed as hexadecimal numbers.	2034	Integer	R	hex
20.1.33	Fault bit 496-511	ErrorTab_31	A	A bit is set for each fault present. Bits 496 through 511 are displayed as hexadecimal numbers.	2035	Integer	R	hex
20.1.34	Fault bit 512-527	ErrorTab_32	A	A bit is set for each fault present. Bits 512 through 527 are displayed as hexadecimal numbers.	2036	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
20.1.35	Fault bit 528-543	ErrorTab_33	A	A bit is set for each fault present. Bits 528 through 543 are displayed as hexadecimal numbers.	2037	Integer	R	hex
20.1.36	Fault bit 544-559	ErrorTab_34	A	A bit is set for each fault present. Bits 544 through 559 are displayed as hexadecimal numbers.	2038	Integer	R	hex
20.1.37	Fault bit 560-575	ErrorTab_35	A	A bit is set for each fault present. Bits 560 through 575 are displayed as hexadecimal numbers.	2039	Integer	R	hex
20.1.38	Fault bit 576-591	ErrorTab_36	A	A bit is set for each fault present. Bits 576 through 591 are displayed as hexadecimal numbers.	2040	Integer	R	hex
20.1.39	Fault bit 592-607	ErrorTab_37	A	A bit is set for each fault present. Bits 592 through 607 are displayed as hexadecimal numbers.	2041	Integer	R	hex
20.1.40	Fault bit 608-623	ErrorTab_38	A	A bit is set for each fault present. Bits 608 through 623 are displayed as hexadecimal numbers.	2042	Integer	R	hex
20.1.41	Fault bit 624-639	ErrorTab_39	A	A bit is set for each fault present. Bits 624 through 639 are displayed as hexadecimal numbers.	2043	Integer	R	hex
20.1.42	Fault bit 640-655	ErrorTab_40	A	A bit is set for each fault present. Bits 640 through 655 are displayed as hexadecimal numbers.	2044	Integer	R	hex
20.1.43	Fault bit 656-671	ErrorTab_41	A	A bit is set for each fault present. Bits 656 through 671 are displayed as hexadecimal numbers.	2045	Integer	R	hex
20.1.44	Fault bit 672-687	ErrorTab_42	A	A bit is set for each fault present. Bits 672 through 687 are displayed as hexadecimal numbers.	2046	Integer	R	hex
20.1.45	Fault bit 688-703	ErrorTab_43	A	A bit is set for each fault present. Bits 688 through 703 are displayed as hexadecimal numbers.	2047	Integer	R	hex
20.1.46	Fault bit 704-719	ErrorTab_44	A	A bit is set for each fault present. Bits 704 through 719 are displayed as hexadecimal numbers.	2048	Integer	R	hex
20.1.47	Fault bit 720-735	ErrorTab_45	A	A bit is set for each fault present. Bits 720 through 735 are displayed as hexadecimal numbers.	2049	Integer	R	hex
20.1.48	Fault bit 736-751	ErrorTab_46	A	A bit is set for each fault present. Bits 736 through 751 are displayed as hexadecimal numbers.	2050	Integer	R	hex
20.1.49	Fault bit 752-767	ErrorTab_47	A	A bit is set for each fault present. Bits 752 through 767 are displayed as hexadecimal numbers.	2051	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
20.1.50	Fault bit 768-783	ErrorTab_48	A	A bit is set for each fault present. Bits 768 through 783 are displayed as hexadecimal numbers.	2102	Integer	R	hex
20.1.51	Fault bit 784-799	ErrorTab_49	A	A bit is set for each fault present. Bits 784 through 799 are displayed as hexadecimal numbers.	2103	Integer	R	hex
20.1.52	Fault bit 800-815	ErrorTab_50	A	A bit is set for each fault present. Bits 800 through 815 are displayed as hexadecimal numbers.	2104	Integer	R	hex
20.1.53	Fault bit 816-831	ErrorTab_51	A	A bit is set for each fault present. Bits 816 through 831 are displayed as hexadecimal numbers.	2105	Integer	R	hex
20.1.54	Fault bit 832-847	ErrorTab_52	A	A bit is set for each fault present. Bits 832 through 847 are displayed as hexadecimal numbers.	2106	Integer	R	hex
20.1.55	Fault bit 848-863	ErrorTab_53	A	A bit is set for each fault present. Bits 848 through 863 are displayed as hexadecimal numbers.	2107	Integer	R	hex
20.1.56	Fault bit 864-879	ErrorTab_54	A	A bit is set for each fault present. Bits 864 through 879 are displayed as hexadecimal numbers.	2108	Integer	R	hex
20.1.57	Fault bit 880-895	ErrorTab_55	A	A bit is set for each fault present. Bits 880 through 895 are displayed as hexadecimal numbers.	2109	Integer	R	hex
20.1.58	Fault bit 896-911	ErrorTab_56	A	A bit is set for each fault present. Bits 896 through 911 are displayed as hexadecimal numbers.	2110	Integer	R	hex
20.1.59	Fault bit 912-927	ErrorTab_57	A	A bit is set for each fault present. Bits 912 through 927 are displayed as hexadecimal numbers.	2111	Integer	R	hex
20.2.0	Status	HEAD_20_2	A	-	1387	Titel	R	
20.2.1	hint status	HinStatus	A	Indicates whether a hint is available (ON) or not (OFF). If there is a hint that is no longer current but has not yet been acknowledged, QUIT is displayed.	1388	Menü	R	
20.2.2	warning status	WarnStatus	A	Indicates whether a warning is present (ON) or not (OFF). If a warning is no longer present but has not yet been acknowledged, QUIT is displayed.	1389	Menü	R	
20.2.3	warn contact	WarnContactStatus	A	Switching state of the warning contact	1390	Menü	R	
20.2.4	alarm status	ErrorStatus	A	Indicates whether an alarm is present (ON) or not (OFF). If an alarm is no longer present but has not yet been acknowledged, QUIT is displayed.	1391	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
20.2.5	alarm contact	ErrorContactStatus	A	Switching state of the alarm contact.	1392	Menü	R	
20.2.6	S1 error status	JobErrorStatus_0	A	Indicates whether a fault affecting stream 1 is present (ON) or not (OFF). If a fault is no longer present but has not yet been acknowledged, QUIT is displayed.	1393	Menü	R	
20.2.7	S2 error status	JobErrorStatus_1	A	Indicates whether a fault affecting stream 2 is present (ON) or not (OFF). If a fault is no longer present but has not yet been acknowledged, QUIT is displayed.	1394	Menü	R	
20.2.8	Device state	RGC7CStatus	A	This bit string has the following meaning (hexadecimal values): - 0x8000 : Calibration switch open - 0x4000 : Codeword open - 0x2000 : Service mode - 0x1000 : - - 0x0800 : Fault active - 0x0400 : Warning active - 0x0200 : Hint active - 0x0100 : - - 0x0080 : Measuring element connected - 0x0040 : - - 0x0020 : - - 0x0010 : - - 0x0008 : - - 0x0004 : - - 0x0002 : - - 0x0001 : -	1399	Integer	R	hex
21.0.0	Date, Time	HEAD_21	A	-	1400	Titel	R	
21.0.1	Coordinated Universal Time	CurrentSystem-Time	A	Display of the current universal time (date + time). This time cannot be set.	3316	Unix-time	R	
21.0.2	Local time	CurrentLocalTime	A	Display of the current local time (date + time). The setting of date and time is made in the field Set local time.	3216	Unix-time	R	
21.0.3	Local time-universal time	DiffToUTC	P	Display of the difference between local time and universal time in seconds.	3318	Long	R	s
21.0.4	Set local time	SetLocalTime	N	Here the local time of the RGC7-C is set. Format: hh.mm.ss DD.MM.YYYY.	3192	Unix-time	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.5	Time zone	TimeZone	N	Afghanistan Standard Time (GMT+04:30) Kabul Alaskan Standard Time (GMT-09:00) Alaska Arab Standard Time (GMT+03:00) Kuwait, Riyadh Arabian Standard Time (GMT+04:00) Abu Dhabi, Muscat Arabic Standard Time (GMT+03:00) Baghdad Argentina Standard Time (GMT-03:00) Buenos Aires Atlantic Standard Time (GMT-04:00) Atlantic Time (Canada) AUS Central Standard Time (GMT+09:30) Darwin AUS Eastern Standard Time (GMT+10:00) Canberra, Melbourne, Sydney Azerbaijan Standard Time (GMT+04:00) Baku Azores Standard Time (GMT-01:00) Azores Canada Central Standard Time (GMT-06:00) Saskatchewan Cape Verde Standard Time (GMT-01:00) Cape Verde Is. Caucasus Standard Time (GMT+04:00) Yerevan Cen. Australia Standard Time (GMT+09:30) Adelaide Central America Standard Time (GMT-06:00) Central America Central Asia Standard Time (GMT+06:00) Almaty, Astana, Dhaka Central Brazilian Standard Time (GMT-04:00) Manaus Central Europe Standard Time (GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague Central European Standard Time (GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb Central Pacific Standard Time (GMT+11:00) New Caledonia, Solomon Is. Central Standard Time (GMT-06:00) Central Time (US & Canada) Central Standard Time (Mexico) (GMT-06:00) Guadalajara, Mexico City, Monterrey China Standard Time (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi Dateline Standard Time (GMT-12:00) International Date Line West E. Africa Standard Time (GMT+03:00) Nairobi E. Australia Standard Time (GMT+10:00) Brisbane E. Europe Standard Time (GMT+02:00) Minsk E. South America Standard Time (GMT-03:00) Brasilia	2090	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.5	Time zone	TimeZone	N	Eastern Standard Time (GMT-05:00) Eastern Time (US & Canada) Egypt Standard Time (GMT+02:00) Cairo Ekaterinburg Standard Time (GMT+05:00) Ekaterinburg Fiji Standard Time (GMT+12:00) Fiji, Marshall Is. FLE Standard Time (GMT+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius Georgian Standard Time (GMT+04:00) Tbilisi GMT Standard Time (GMT) Dublin, Edinburgh, Lisbon, London Greenland Standard Time (GMT-03:00) Greenland Greenwich Standard Time (GMT) Monrovia, Reykjavik GTB Standard Time (GMT+02:00) Athens, Bucharest, Istanbul Hawaiian Standard Time (GMT-10:00) Hawaii India Standard Time (GMT+05:30) Chennai, Kolkata, Mumbai, New Delhi Iran Standard Time (GMT+03:30) Tehran Israel Standard Time (GMT+02:00) Jerusalem Jordan Standard Time (GMT+02:00) Amman Kamchatka Standard Time (GMT+12:00) Petropavlovsk-Kamchatsky Korea Standard Time (GMT+09:00) Seoul Magadan Standard Time (GMT+11:00) Magadan Mauritius Standard Time (GMT+04:00) Port Louis Mid-Atlantic Standard Time (GMT-02:00) Mid-Atlantic Middle East Standard Time (GMT+02:00) Beirut Montevideo Standard Time (GMT-03:00) Montevideo Morocco Standard Time (GMT) Casablanca Mountain Standard Time (GMT-07:00) Mountain Time (US & Canada) Mountain Standard Time (Mexico) (GMT-07:00) Chihuahua, La Paz, Mazatlan Myanmar Standard Time (GMT+06:30) Yangon (Rangoon) N. Central Asia Standard Time (GMT+06:00) Novosibirsk Namibia Standard Time (GMT+02:00) Windhoek Nepal Standard Time (GMT+05:45) Kathmandu New Zealand Standard Time (GMT+12:00) Auckland, Wellington Newfoundland Standard Time (GMT-03:30) Newfoundland	2090	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.5	Time zone	TimeZone	N	North Asia East Standard Time (GMT+08:00) Irkutsk North Asia Standard Time (GMT+07:00) Krasnoyarsk Pacific SA Standard Time (GMT-04:00) Santiago Pacific Standard Time (GMT-08:00) Pacific Time (US & Canada) Pacific Standard Time (Mexico) (GMT-08:00) Tijuana, Baja California Pakistan Standard Time (GMT+05:00) Islamabad, Karachi Paraguay Standard Time (GMT-04:00) Asuncion Romance Standard Time (GMT+01:00) Brussels, Copenhagen, Madrid, Paris Russian Standard Time (GMT+03:00) Moscow, St. Petersburg, Volgograd SA Eastern Standard Time (GMT-03:00) Cayenne SA Pacific Standard Time (GMT-05:00) Bogota, Lima, Quito SA Western Standard Time (GMT-04:00) Georgetown, La Paz, San Juan Samoa Standard Time (GMT-11:00) Midway Island, Samoa SE Asia Standard Time (GMT+07:00) Bangkok, Hanoi, Jakarta Singapore Standard Time (GMT+08:00) Kuala Lumpur, Singapore South Africa Standard Time (GMT+02:00) Harare, Pretoria Sri Lanka Standard Time (GMT+05:30) Sri Jayawardenepura Taipei Standard Time (GMT+08:00) Taipei Tasmania Standard Time (GMT+10:00) Hobart Tokyo Standard Time (GMT+09:00) Osaka, Sapporo, Tokyo Tonga Standard Time (GMT+13:00) Nuku'alofa Ulaanbaatar Standard Time (GMT+08:00) Ulaanbaatar US Eastern Standard Time (GMT-05:00) Indiana (East) US Mountain Standard Time (GMT-07:00) Arizona UTC (UTC) Coordinated Universal Time Venezuela Standard Time (GMT-04:30) Caracas Vladivostok Standard Time (GMT+10:00) Vladivostok W. Australia Standard Time (GMT+08:00) Perth W. Central Africa Standard Time (GMT+01:00) West Central Africa W. Europe Standard Time (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna	2090	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.5	Time zone	TimeZone	N	West Asia Standard Time (GMT+05:00) Tashkent West Pacific Standard Time (GMT+10:00) Guam, Port Moresby Yakutsk Standard Time (GMT+09:00) Yakutsk 'UTC+01' (UTC+1) Coordinated Universal Time +01 'UTC+02' (UTC+2) Coordinated Universal Time +02 'UTC+03' (UTC+3) Coordinated Universal Time +03 'UTC+03.50' (UTC+3.5) Coordinated Universal Time +03.5 'UTC+04' (UTC+4) Coordinated Universal Time +04 'UTC+04.50' (UTC+4.5) Coordinated Universal Time +04.5 'UTC+05' (UTC+5) Coordinated Universal Time +05 'UTC+05.50' (UTC+5.5) Coordinated Universal Time +05.5 'UTC+05.75' (UTC+5.75) Coordinated Universal Time +05.75 'UTC+06' (UTC+6) Coordinated Universal Time +06 'UTC+06.50' (UTC+6.5) Coordinated Universal Time +06.5 'UTC+07' (UTC+7) Coordinated Universal Time +07 'UTC+08' (UTC+8) Coordinated Universal Time +08 'UTC+09' (UTC+9) Coordinated Universal Time +09 'UTC+09.50' (UTC+9.5) Coordinated Universal Time +09.5 'UTC+10' (UTC+10) Coordinated Universal Time +10 'UTC+11' (UTC+11) Coordinated Universal Time +11 'UTC+12' (UTC+12) Coordinated Universal Time +12 'UTC+13' (UTC+13) Coordinated Universal Time +13 'UTC-01' (UTC-1) Coordinated Universal Time -01 'UTC-02' (UTC-2) Coordinated Universal Time -02 'UTC-03' (UTC-3) Coordinated Universal Time -03 'UTC-03.50' (UTC-3.5) Coordinated Universal Time -03.5 'UTC-04' (UTC-4) Coordinated Universal Time -04 'UTC-04.50' (UTC-4.5) Coordinated Universal Time -04.5 'UTC-05' (UTC-5) Coordinated Universal Time -05 'UTC-06' (UTC-6) Coordinated Universal Time -06 'UTC-07' (UTC-7) Coordinated Universal Time -07 'UTC-08' (UTC-8) Coordinated Universal Time -08 'UTC-09' (UTC-9) Coordinated Universal Time -09 'UTC-10' (UTC-10) Coordinated Universal Time -10 'UTC-11' (UTC-11) Coordinated Universal Time -11	2090	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.6	Last time zone change	LastTimeZone-Change	P	Time of the last timezone change.	3328	Unix-time	R	
21.0.7	Time synchronisation	TimeSyncMode	B	Operating mode for time synchronization: - MANUAL: The time can be input via the keyboard and via RMGViewGC. - DSFG BUS-1: The time is synchronized automatically via DSfG bus 1 if this function is available on DSfG bus 1. In this case, the PGC cannot be the timing element for the DSfG bus. Manual adjustment of the time is only possible for testing purposes. - DSFG BUS-2: As for DSFG BUS-1 - NTP: The time is synchronized automatically via NTP-Server. - RGC7-C: The time is synchronized automatically via RGC7-C. (Only for GC9310.)	1601	Menü	W	
21.0.8	DSfG-sync-address	DsfgSyncInstanz	B	Specifies, from which DSfG bus participant time sync telegrams are accepted.	1924	Menü	W	
21.0.9	Time synch. rules	TimeSyncRules	E	Rules for time synchronization: - ALWAYS: The time is always synchronized, there are no rules. - EXACT: With an open calibration switch, the time is always synchronized. With a closed calibration switch, the time is synchronized max. once per day within the limits of +/- 20 seconds. - ADVANCED: As for EXACT - also with open codeword. The first time synchronization after a restart is always performed. The first time synchronization after manual adjustment is always performed (checking of function)	1602	Menü	W	
21.0.10	Last time synch.	LastTimeSync	P	Time of the last time synchronization	3196	Unix-time	R	
21.0.11	Address NTP-Server	NtpTimeServer	E	IP address of the NTP server (Network Time Protocol). This server is used for synchronization of the GC clock.	6660	Text	W	
21.0.12	NTP Interval	NtpTimeCheckInterval	E	Interval for synchronization via NTP. The interval is input in hours.	1633	Integer	W	hours

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
21.0.13	NTP State	NtpStatus	A	Status of synchronization via NTP - 0: NTP OK - 1: NTP error Receive - 2: NTP error Incorrect length - 3: NTP error Not plausible - 4: NTP error Not synchronous - 5: NTP error Socket - 6: NTP error Bind - 7: NTP error Route - 8: NTP error Send - 9: NTP NTP error - 10: NTP error Connect - 11: NTP error Timeout - default route incorrect - 12: NTP error Host not found - gethost()	1634	Integer	R	
21.0.14	Analyzer time sync	AnalyzerTimeSync	E	Here you can specify, whether the time in the measuring element is synchronized before each calibration. If this mode is set to OFF, the measuring element runs with its own internal time.	1925	Menü	W	
21.0.15	Seconds since start	SecondsSinceBoot	A	Seconds elapsed since the RGC 7-C was started	3256	Long	R	s
22.0.0	Archives, Storage	HEAD_22	A	-	1401	Titel	R	
22.0.1	Start of the day	StartOfDay	E	Defines the time for the change of day of the daily and monthly archives. Note: Historical data is not changed;the change only takes effect from the next day.	1402	Integer	W	h
22.0.2	Chrom storage	NumChromDirs	E	Storage time for chromatograms in days.	1160	Integer	W	days
22.0.3	Write parameter log	LogParameter	E	Specifies whether parameter changes are logged or not.	1873	Menü	W	
22.0.4	Del. parameter log	DeleteParaLog	E	Deletion of all entries in the parameter log memory. Note: No backup files are created;the data is permanently deleted.	1404	Menü	W	
22.0.5	Parameter log entries	ParLogEntries	A	Number of entries in the parameter log.	1953	Integer	R	
22.0.6	Del. event log	DeleteEventLog	E	Deletion of all entries from the event log memory. Note: No backup files are created;the data is permanently deleted.	1403	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.0.7	Del. all archives	DeleteAllArchives	E	Deletion of all entries from all archives (all analysis, daily and monthly archives). Note: No backup files are created;the data is permanently deleted.	1405	Menü	W	
22.0.8	Del. Analysis archives	DeleteAnaArchives	E	Deletion of all entries from the analysis archives. Note: No backup files are created;the data is permanently deleted.	1406	Menü	W	
22.0.9	Del. hour archives	DeleteHourArchives	E	Deletion of all entries from the hourly archives. Note: No backup files are created;the data is permanently deleted.	2052	Menü	W	
22.0.10	Del. day archives	DeleteDayArchives	E	Deletion of all entries from the daily archives. Note: No backup files are created;the data is permanently deleted.	1407	Menü	W	
22.0.11	Del. month archives	DeleteMonArchives	E	Deletion of all entries from the monthly archives. Note: No backup files are created;the data is permanently deleted.	1408	Menü	W	
22.0.12	Password web archive	ArchivePassword	B	Password for access to the archives via Internet browser. User: gcuser Password: (as entered here)	6680	Code	W	
22.0.13	Num rows web archive	NumRowsWebArchive	N	Maximum number of rows (= number of analyses), which can be retrieved in an archive call.	1687	Integer	W	Items
22.0.14	max faulty chrome	MaxErrChromFiles	B	Maximum number of stored faulty chromatograms	2228	Integer	W	Items
22.0.15	saved faulty chrome	NumErrChromFiles	A	Number of additionally stored faulty chromatograms	2229	Integer	R	Items
22.0.16	Del. faulty chrome	DeleteErrChroms	E	Delete all additional faulty chromatograms	2230	Menü	W	
22.0.17	days of analyzer event-log	ErrorLogDays	B	Number of days of the analyzer event log which are read	2293	Integer	W	days
22.1.0	freely selectable	HEAD_22_1	A	-	1409	Titel	R	
22.1.1	User archive 01	UserArchiv-ModReg_0	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1410	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.1.2	User archive 02	UserArchiv-ModReg_1	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1411	Integer	W	Reg
22.1.3	User archive 03	UserArchiv-ModReg_2	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1412	Integer	W	Reg
22.1.4	User archive 04	UserArchiv-ModReg_3	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1413	Integer	W	Reg
22.1.5	User archive 05	UserArchiv-ModReg_4	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1414	Integer	W	Reg
22.1.6	User archive 06	UserArchiv-ModReg_5	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1415	Integer	W	Reg
22.1.7	User archive 07	UserArchiv-ModReg_6	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1416	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.1.8	User archive 08	UserArchiv-ModReg_7	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1417	Integer	W	Reg
22.1.9	User archive 09	UserArchiv-ModReg_8	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1418	Integer	W	Reg
22.1.10	User archive 10	UserArchiv-ModReg_9	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1419	Integer	W	Reg
22.1.11	User archive 11	UserArchiv-ModReg_10	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1420	Integer	W	Reg
22.1.12	User archive 12	UserArchiv-ModReg_11	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1421	Integer	W	Reg
22.1.13	User archive 13	UserArchiv-ModReg_12	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1422	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.1.14	User archive 14	UserArchiv-ModReg_13	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1423	Integer	W	Reg
22.1.15	User archive 15	UserArchiv-ModReg_14	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1424	Integer	W	Reg
22.1.16	User archive 16	UserArchiv-ModReg_15	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1425	Integer	W	Reg
22.1.17	User archive 17	UserArchiv-ModReg_16	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1426	Integer	W	Reg
22.1.18	User archive 18	UserArchiv-ModReg_17	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1427	Integer	W	Reg
22.1.19	User archive 19	UserArchiv-ModReg_18	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1428	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.1.20	User archive 20	UserArchiv-ModReg_19	E	The RGC7-C has 20 freely programmable archive channels. A measured value can be assigned to each channel. Procedure: Select the desired value from the menu, open the parameter screen and note the Modbus address. Enter this Modbus address here.	1429	Integer	W	Reg
22.2.0	Trend	HEAD_22_2	A	-	1956	Titel	R	
22.2.1	Record 01	TrendBlock_0	B	The value selected here is recorded. The values are visible in the Trend screen.	1957	Integer	W	Reg
22.2.2	Record 02	TrendBlock_1	B	The value selected here is recorded. The values are visible in the Trend screen.	1958	Integer	W	Reg
22.2.3	Record 03	TrendBlock_2	B	The value selected here is recorded. The values are visible in the Trend screen.	1959	Integer	W	Reg
22.2.4	Record 04	TrendBlock_3	B	The value selected here is recorded. The values are visible in the Trend screen.	1960	Integer	W	Reg
22.2.5	Record 05	TrendBlock_4	B	The value selected here is recorded. The values are visible in the Trend screen.	1961	Integer	W	Reg
22.2.6	Record 06	TrendBlock_5	B	The value selected here is recorded. The values are visible in the Trend screen.	1962	Integer	W	Reg
22.2.7	Record 07	TrendBlock_6	B	The value selected here is recorded. The values are visible in the Trend screen.	1963	Integer	W	Reg
22.2.8	Record 08	TrendBlock_7	B	The value selected here is recorded. The values are visible in the Trend screen.	1964	Integer	W	Reg
22.2.9	Record 09	TrendBlock_8	B	The value selected here is recorded. The values are visible in the Trend screen.	1965	Integer	W	Reg
22.2.10	Record 10	TrendBlock_9	B	The value selected here is recorded. The values are visible in the Trend screen.	1966	Integer	W	Reg
22.2.11	Delete records	DeleteTrends	B	With the next recording all previous values are deleted. Note: No backup files are created, the data are deleted completely.	2010	Menü	W	
22.3.0	custom statusbits 1	HEAD_22_3	A	-	2330	Titel	R	
22.3.1	error status	SelfErrorTab_0	A	Status of the self error bits	2342	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.3.2	stream no	SelfErrorTab-Stream_0	N	Assignment of a specific stream to the error bits	2579	Menü	W	
22.3.3	bit 1 errornumber	SelfErrorTab_0_0	N	Error number of the 1st error bit	2354	Integer	W	
22.3.4	bit 2 errornumber	SelfErrorTab_0_1	N	Error number of the 2nd error bit	2355	Integer	W	
22.3.5	bit 3 errornumber	SelfErrorTab_0_2	N	Error number of the 2nd error bit	2356	Integer	W	
22.3.6	bit 4 errornumber	SelfErrorTab_0_3	N	Error number of the 3rd error bit	2357	Integer	W	
22.3.7	bit 5 errornumber	SelfErrorTab_0_4	N	Error number of the 4th error bit	2358	Integer	W	
22.3.8	bit 6 errornumber	SelfErrorTab_0_5	N	Error number of the 5th error bit	2359	Integer	W	
22.3.9	bit 7 errornumber	SelfErrorTab_0_6	N	Error number of the 6th error bit	2360	Integer	W	
22.3.10	bit 8 errornumber	SelfErrorTab_0_7	N	Error number of the 7th error bit	2361	Integer	W	
22.3.11	bit 9 errornumber	SelfErrorTab_0_8	N	Error number of the 8th error bit	2362	Integer	W	
22.3.12	bit 10 errornumber	SelfErrorTab_0_9	N	Error number of the 9th error bit	2363	Integer	W	
22.3.13	bit 11 errornumber	SelfErrorTab_0_10	N	Error number of the 10th error bit	2364	Integer	W	
22.3.14	bit 12 errornumber	SelfErrorTab_0_11	N	Error number of the 11th error bit	2365	Integer	W	
22.3.15	bit 13 errornumber	SelfErrorTab_0_12	N	Error number of the 12th error bit	2366	Integer	W	
22.3.16	bit 14 errornumber	SelfErrorTab_0_13	N	Error number of the 13th error bit	2367	Integer	W	
22.3.17	bit 15 errornumber	SelfErrorTab_0_14	N	Error number of the 14th error bit	2368	Integer	W	
22.3.18	bit 16 errornumber	SelfErrorTab_0_15	N	Error number of the 15th error bit	2369	Integer	W	
22.4.0	custom statusbits 2	HEAD_22_4	A	-	2331	Titel	R	
22.4.1	error status	SelfErrorTab_1	A	Status of the self error bits	2343	Integer	R	hex
22.4.2	stream no	SelfErrorTab-Stream_1	N	Assignment of a specific stream to the error bits	2580	Menü	W	
22.4.3	bit 1 errornumber	SelfErrorTab_1_0	N	Error number of the 1st error bit	2370	Integer	W	
22.4.4	bit 2 errornumber	SelfErrorTab_1_1	N	Error number of the 2nd error bit	2371	Integer	W	
22.4.5	bit 3 errornumber	SelfErrorTab_1_2	N	Error number of the 2nd error bit	2372	Integer	W	
22.4.6	bit 4 errornumber	SelfErrorTab_1_3	N	Error number of the 3rd error bit	2373	Integer	W	
22.4.7	bit 5 errornumber	SelfErrorTab_1_4	N	Error number of the 4th error bit	2374	Integer	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.4.8	bit 6 errornumber	SelfErrorTab_1_5	N	Error number of the 5th error bit	2375	Integer	W	
22.4.9	bit 7 errornumber	SelfErrorTab_1_6	N	Error number of the 6th error bit	2376	Integer	W	
22.4.10	bit 8 errornumber	SelfErrorTab_1_7	N	Error number of the 7th error bit	2377	Integer	W	
22.4.11	bit 9 errornumber	SelfErrorTab_1_8	N	Error number of the 8th error bit	2378	Integer	W	
22.4.12	bit 10 errornumber	SelfErrorTab_1_9	N	Error number of the 9th error bit	2379	Integer	W	
22.4.13	bit 11 errornumber	SelfErrorTab_1_10	N	Error number of the 10th error bit	2380	Integer	W	
22.4.14	bit 12 errornumber	SelfErrorTab_1_11	N	Error number of the 11th error bit	2381	Integer	W	
22.4.15	bit 12 errornumber	SelfErrorTab_1_12	N	Error number of the 12th error bit	2382	Integer	W	
22.4.16	bit 14 errornumber	SelfErrorTab_1_13	N	Error number of the 13th error bit	2383	Integer	W	
22.4.17	bit 15 errornumber	SelfErrorTab_1_14	N	Error number of the 14th error bit	2384	Integer	W	
22.4.18	bit 16 errornumber	SelfErrorTab_1_15	N	Error number of the 15th error bit	2385	Integer	W	
22.5.0	custom statusbits 3	HEAD_22_5	A	-	2332	Titel	R	
22.5.1	error status	SelfErrorTab_2	A	Status of the self error bits	2344	Integer	R	hex
22.5.2	stream no	SelfErrorTab-Stream_2	N	Assignment of a specific stream to the error bits	2581	Menü	W	
22.5.3	bit 1 errornumber	SelfErrorTab_2_0	N	Error number of the 1st error bit	2386	Integer	W	
22.5.4	bit 2 errornumber	SelfErrorTab_2_1	N	Error number of the 2nd error bit	2387	Integer	W	
22.5.5	bit 3 errornumber	SelfErrorTab_2_2	N	Error number of the 2nd error bit	2388	Integer	W	
22.5.6	bit 4 errornumber	SelfErrorTab_2_3	N	Error number of the 3rd error bit	2389	Integer	W	
22.5.7	bit 5 errornumber	SelfErrorTab_2_4	N	Error number of the 4th error bit	2390	Integer	W	
22.5.8	bit 6 errornumber	SelfErrorTab_2_5	N	Error number of the 5th error bit	2391	Integer	W	
22.5.9	bit 7 errornumber	SelfErrorTab_2_6	N	Error number of the 6th error bit	2392	Integer	W	
22.5.10	bit 8 errornumber	SelfErrorTab_2_7	N	Error number of the 7th error bit	2393	Integer	W	
22.5.11	bit 9 errornumber	SelfErrorTab_2_8	N	Error number of the 8th error bit	2394	Integer	W	
22.5.12	bit 10 errornumber	SelfErrorTab_2_9	N	Error number of the 9th error bit	2395	Integer	W	
22.5.13	bit 11 errornumber	SelfErrorTab_2_10	N	Error number of the 10th error bit	2396	Integer	W	
22.5.14	bit 12 errornumber	SelfErrorTab_2_11	N	Error number of the 11th error bit	2397	Integer	W	

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
22.5.15	bit 12 errornumber	SelfErrorTab_2_12	N	Error number of the 12th error bit	2398	Integer	W	
22.5.16	bit 14 errornumber	SelfErrorTab_2_13	N	Error number of the 13th error bit	2399	Integer	W	
22.5.17	bit 15 errornumber	SelfErrorTab_2_14	N	Error number of the 14th error bit	2400	Integer	W	
22.5.18	bit 16 errornumber	SelfErrorTab_2_15	N	Error number of the 15th error bit	2401	Integer	W	
22.6.0	custom statusbits 4	HEAD_22_6	A	-	2333	Titel	R	
22.6.1	error status	SelfErrorTab_3	A	Status of the self error bits	2345	Integer	R	hex
22.6.2	stream no	SelfErrorTab- Stream_3	N	Assignment of a specific stream to the error bits	2582	Menü	W	
22.6.3	bit 1 errornumber	SelfErrorTab_3_0	N	Error number of the 1st error bit	2402	Integer	W	
22.6.4	bit 2 errornumber	SelfErrorTab_3_1	N	Error number of the 2nd error bit	2403	Integer	W	
22.6.5	bit 3 errornumber	SelfErrorTab_3_2	N	Error number of the 2nd error bit	2404	Integer	W	
22.6.6	bit 4 errornumber	SelfErrorTab_3_3	N	Error number of the 3rd error bit	2405	Integer	W	
22.6.7	bit 5 errornumber	SelfErrorTab_3_4	N	Error number of the 4th error bit	2406	Integer	W	
22.6.8	bit 6 errornumber	SelfErrorTab_3_5	N	Error number of the 5th error bit	2407	Integer	W	
22.6.9	bit 7 errornumber	SelfErrorTab_3_6	N	Error number of the 6th error bit	2408	Integer	W	
22.6.10	bit 8 errornumber	SelfErrorTab_3_7	N	Error number of the 7th error bit	2409	Integer	W	
22.6.11	bit 9 errornumber	SelfErrorTab_3_8	N	Error number of the 8th error bit	2410	Integer	W	
22.6.12	bit 10 errornumber	SelfErrorTab_3_9	N	Error number of the 9th error bit	2411	Integer	W	
22.6.13	bit 11 errornumber	SelfErrorTab_3_10	N	Error number of the 10th error bit	2412	Integer	W	
22.6.14	bit 12 errornumber	SelfErrorTab_3_11	N	Error number of the 11th error bit	2413	Integer	W	
22.6.15	bit 12 errornumber	SelfErrorTab_3_12	N	Error number of the 12th error bit	2414	Integer	W	
22.6.16	bit 14 errornumber	SelfErrorTab_3_13	N	Error number of the 13th error bit	2415	Integer	W	
22.6.17	bit 15 errornumber	SelfErrorTab_3_14	N	Error number of the 14th error bit	2416	Integer	W	
22.6.18	bit 16 errornumber	SelfErrorTab_3_15	N	Error number of the 15th error bit	2417	Integer	W	
22.7.0	custom statusbits 5	HEAD_22_7	A	-	2334	Titel	R	
22.7.1	error status	SelfErrorTab_4	A	Status of the self error bits	2346	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.7.2	stream no	SelfErrorTab-Stream_4	N	Assignment of a specific stream to the error bits	2583	Menü	W	
22.7.3	bit 1 errornumber	SelfErrorTab_4_0	N	Error number of the 1st error bit	2418	Integer	W	
22.7.4	bit 2 errornumber	SelfErrorTab_4_1	N	Error number of the 2nd error bit	2419	Integer	W	
22.7.5	bit 3 errornumber	SelfErrorTab_4_2	N	Error number of the 2nd error bit	2420	Integer	W	
22.7.6	bit 4 errornumber	SelfErrorTab_4_3	N	Error number of the 3rd error bit	2421	Integer	W	
22.7.7	bit 5 errornumber	SelfErrorTab_4_4	N	Error number of the 4th error bit	2422	Integer	W	
22.7.8	bit 6 errornumber	SelfErrorTab_4_5	N	Error number of the 5th error bit	2423	Integer	W	
22.7.9	bit 7 errornumber	SelfErrorTab_4_6	N	Error number of the 6th error bit	2424	Integer	W	
22.7.10	bit 8 errornumber	SelfErrorTab_4_7	N	Error number of the 7th error bit	2425	Integer	W	
22.7.11	bit 9 errornumber	SelfErrorTab_4_8	N	Error number of the 8th error bit	2426	Integer	W	
22.7.12	bit 10 errornumber	SelfErrorTab_4_9	N	Error number of the 9th error bit	2427	Integer	W	
22.7.13	bit 11 errornumber	SelfErrorTab_4_10	N	Error number of the 10th error bit	2428	Integer	W	
22.7.14	bit 12 errornumber	SelfErrorTab_4_11	N	Error number of the 11th error bit	2429	Integer	W	
22.7.15	bit 12 errornumber	SelfErrorTab_4_12	N	Error number of the 12th error bit	2430	Integer	W	
22.7.16	bit 14 errornumber	SelfErrorTab_4_13	N	Error number of the 13th error bit	2431	Integer	W	
22.7.17	bit 15 errornumber	SelfErrorTab_4_14	N	Error number of the 14th error bit	2432	Integer	W	
22.7.18	bit 16 errornumber	SelfErrorTab_4_15	N	Error number of the 15th error bit	2433	Integer	W	
22.8.0	custom statusbits 6	HEAD_22_8	A	-	2335	Titel	R	
22.8.1	error status	SelfErrorTab_5	A	Status of the self error bits	2347	Integer	R	hex
22.8.2	stream no	SelfErrorTab-Stream_5	N	Assignment of a specific stream to the error bits	2584	Menü	W	
22.8.3	bit 1 errornumber	SelfErrorTab_5_0	N	Error number of the 1st error bit	2434	Integer	W	
22.8.4	bit 2 errornumber	SelfErrorTab_5_1	N	Error number of the 2nd error bit	2435	Integer	W	
22.8.5	bit 3 errornumber	SelfErrorTab_5_2	N	Error number of the 2nd error bit	2436	Integer	W	
22.8.6	bit 4 errornumber	SelfErrorTab_5_3	N	Error number of the 3rd error bit	2437	Integer	W	
22.8.7	bit 5 errornumber	SelfErrorTab_5_4	N	Error number of the 4th error bit	2438	Integer	W	

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
22.8.8	bit 6 errornumber	SelfErrorTab_5_5	N	Error number of the 5th error bit	2439	Integer	W	
22.8.9	bit 7 errornumber	SelfErrorTab_5_6	N	Error number of the 6th error bit	2440	Integer	W	
22.8.10	bit 8 errornumber	SelfErrorTab_5_7	N	Error number of the 7th error bit	2441	Integer	W	
22.8.11	bit 9 errornumber	SelfErrorTab_5_8	N	Error number of the 8th error bit	2442	Integer	W	
22.8.12	bit 10 errornumber	SelfErrorTab_5_9	N	Error number of the 9th error bit	2443	Integer	W	
22.8.13	bit 11 errornumber	SelfErrorTab_5_10	N	Error number of the 10th error bit	2444	Integer	W	
22.8.14	bit 12 errornumber	SelfErrorTab_5_11	N	Error number of the 11th error bit	2445	Integer	W	
22.8.15	bit 12 errornumber	SelfErrorTab_5_12	N	Error number of the 12th error bit	2446	Integer	W	
22.8.16	bit 14 errornumber	SelfErrorTab_5_13	N	Error number of the 13th error bit	2447	Integer	W	
22.8.17	bit 15 errornumber	SelfErrorTab_5_14	N	Error number of the 14th error bit	2448	Integer	W	
22.8.18	bit 16 errornumber	SelfErrorTab_5_15	N	Error number of the 15th error bit	2449	Integer	W	
22.9.0	custom statusbits 7	HEAD_22_9	A	-	2336	Titel	R	
22.9.1	error status	SelfErrorTab_6	A	Status of the self error bits	2348	Integer	R	hex
22.9.2	stream no	SelfErrorTab- Stream_6	N	Assignment of a specific stream to the error bits	2585	Menü	W	
22.9.3	bit 1 errornumber	SelfErrorTab_6_0	N	Error number of the 1st error bit	2450	Integer	W	
22.9.4	bit 2 errornumber	SelfErrorTab_6_1	N	Error number of the 2nd error bit	2451	Integer	W	
22.9.5	bit 3 errornumber	SelfErrorTab_6_2	N	Error number of the 2nd error bit	2452	Integer	W	
22.9.6	bit 4 errornumber	SelfErrorTab_6_3	N	Error number of the 3rd error bit	2453	Integer	W	
22.9.7	bit 5 errornumber	SelfErrorTab_6_4	N	Error number of the 4th error bit	2454	Integer	W	
22.9.8	bit 6 errornumber	SelfErrorTab_6_5	N	Error number of the 5th error bit	2455	Integer	W	
22.9.9	bit 7 errornumber	SelfErrorTab_6_6	N	Error number of the 6th error bit	2456	Integer	W	
22.9.10	bit 8 errornumber	SelfErrorTab_6_7	N	Error number of the 7th error bit	2457	Integer	W	
22.9.11	bit 9 errornumber	SelfErrorTab_6_8	N	Error number of the 8th error bit	2458	Integer	W	
22.9.12	bit 10 errornumber	SelfErrorTab_6_9	N	Error number of the 9th error bit	2459	Integer	W	
22.9.13	bit 11 errornumber	SelfErrorTab_6_10	N	Error number of the 10th error bit	2460	Integer	W	
22.9.14	bit 12 errornumber	SelfErrorTab_6_11	N	Error number of the 11th error bit	2461	Integer	W	

Table 12: Modbus parameter list

Coordi- nate	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
22.9.15	bit 12 errornumber	SelfErrorTab_6_12	N	Error number of the 12th error bit	2462	Integer	W	
22.9.16	bit 14 errornumber	SelfErrorTab_6_13	N	Error number of the 13th error bit	2463	Integer	W	
22.9.17	bit 15 errornumber	SelfErrorTab_6_14	N	Error number of the 14th error bit	2464	Integer	W	
22.9.18	bit 16 errornumber	SelfErrorTab_6_15	N	Error number of the 15th error bit	2465	Integer	W	
22.10.0	custom statusbits 8	HEAD_22_10	A	-	2337	Titel	R	
22.10.1	error status	SelfErrorTab_7	A	Status of the self error bits	2349	Integer	R	hex
22.10.2	stream no	SelfErrorTab- Stream_7	N	Assignment of a specific stream to the error bits	2586	Menü	W	
22.10.3	bit 1 errornumber	SelfErrorTab_7_0	N	Error number of the 1st error bit	2466	Integer	W	
22.10.4	bit 2 errornumber	SelfErrorTab_7_1	N	Error number of the 2nd error bit	2467	Integer	W	
22.10.5	bit 3 errornumber	SelfErrorTab_7_2	N	Error number of the 2nd error bit	2468	Integer	W	
22.10.6	bit 4 errornumber	SelfErrorTab_7_3	N	Error number of the 3rd error bit	2469	Integer	W	
22.10.7	bit 5 errornumber	SelfErrorTab_7_4	N	Error number of the 4th error bit	2470	Integer	W	
22.10.8	bit 6 errornumber	SelfErrorTab_7_5	N	Error number of the 5th error bit	2471	Integer	W	
22.10.9	bit 7 errornumber	SelfErrorTab_7_6	N	Error number of the 6th error bit	2472	Integer	W	
22.10.10	bit 8 errornumber	SelfErrorTab_7_7	N	Error number of the 7th error bit	2473	Integer	W	
22.10.11	bit 9 errornumber	SelfErrorTab_7_8	N	Error number of the 8th error bit	2474	Integer	W	
22.10.12	bit 10 errornumber	SelfErrorTab_7_9	N	Error number of the 9th error bit	2475	Integer	W	
22.10.13	bit 11 errornumber	SelfErrorTab_7_10	N	Error number of the 10th error bit	2476	Integer	W	
22.10.14	bit 12 errornumber	SelfErrorTab_7_11	N	Error number of the 11th error bit	2477	Integer	W	
22.10.15	bit 12 errornumber	SelfErrorTab_7_12	N	Error number of the 12th error bit	2478	Integer	W	
22.10.16	bit 14 errornumber	SelfErrorTab_7_13	N	Error number of the 13th error bit	2479	Integer	W	
22.10.17	bit 15 errornumber	SelfErrorTab_7_14	N	Error number of the 14th error bit	2480	Integer	W	
22.10.18	bit 16 errornumber	SelfErrorTab_7_15	N	Error number of the 15th error bit	2481	Integer	W	
22.11.0	custom statusbits 9	HEAD_22_11	A	-	2338	Titel	R	
22.11.1	error status	SelfErrorTab_8	A	Status of the self error bits	2350	Integer	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.11.2	stream no	SelfErrorTab-Stream_8	N	Assignment of a specific stream to the error bits	2587	Menü	W	
22.11.3	bit 1 errornumber	SelfErrorTab_8_0	N	Error number of the 1st error bit	2482	Integer	W	
22.11.4	bit 2 errornumber	SelfErrorTab_8_1	N	Error number of the 2nd error bit	2483	Integer	W	
22.11.5	bit 3 errornumber	SelfErrorTab_8_2	N	Error number of the 2nd error bit	2484	Integer	W	
22.11.6	bit 4 errornumber	SelfErrorTab_8_3	N	Error number of the 3rd error bit	2485	Integer	W	
22.11.7	bit 5 errornumber	SelfErrorTab_8_4	N	Error number of the 4th error bit	2486	Integer	W	
22.11.8	bit 6 errornumber	SelfErrorTab_8_5	N	Error number of the 5th error bit	2487	Integer	W	
22.11.9	bit 7 errornumber	SelfErrorTab_8_6	N	Error number of the 6th error bit	2488	Integer	W	
22.11.10	bit 8 errornumber	SelfErrorTab_8_7	N	Error number of the 7th error bit	2489	Integer	W	
22.11.11	bit 9 errornumber	SelfErrorTab_8_8	N	Error number of the 8th error bit	2490	Integer	W	
22.11.12	bit 10 errornumber	SelfErrorTab_8_9	N	Error number of the 9th error bit	2491	Integer	W	
22.11.13	bit 11 errornumber	SelfErrorTab_8_10	N	Error number of the 10th error bit	2492	Integer	W	
22.11.14	bit 12 errornumber	SelfErrorTab_8_11	N	Error number of the 11th error bit	2493	Integer	W	
22.11.15	bit 12 errornumber	SelfErrorTab_8_12	N	Error number of the 12th error bit	2494	Integer	W	
22.11.16	bit 14 errornumber	SelfErrorTab_8_13	N	Error number of the 13th error bit	2495	Integer	W	
22.11.17	bit 15 errornumber	SelfErrorTab_8_14	N	Error number of the 14th error bit	2496	Integer	W	
22.11.18	bit 16 errornumber	SelfErrorTab_8_15	N	Error number of the 15th error bit	2497	Integer	W	
22.12.0	custom statusbits 10	HEAD_22_12	A	-	2339	Titel	R	
22.12.1	error status	SelfErrorTab_9	A	Status of the self error bits	2351	Integer	R	hex
22.12.2	stream no	SelfErrorTab-Stream_9	N	Assignment of a specific stream to the error bits	2588	Menü	W	
22.12.3	bit 1 errornumber	SelfErrorTab_9_0	N	Error number of the 1st error bit	2498	Integer	W	
22.12.4	bit 2 errornumber	SelfErrorTab_9_1	N	Error number of the 2nd error bit	2499	Integer	W	
22.12.5	bit 3 errornumber	SelfErrorTab_9_2	N	Error number of the 2nd error bit	2500	Integer	W	
22.12.6	bit 4 errornumber	SelfErrorTab_9_3	N	Error number of the 3rd error bit	2501	Integer	W	
22.12.7	bit 5 errornumber	SelfErrorTab_9_4	N	Error number of the 4th error bit	2502	Integer	W	

Table 12: Modbus parameter list

Coordi- nate	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
22.12.8	bit 6 errornumber	SelfErrorTab_9_5	N	Error number of the 5th error bit	2503	Integer	W	
22.12.9	bit 7 errornumber	SelfErrorTab_9_6	N	Error number of the 6th error bit	2504	Integer	W	
22.12.10	bit 8 errornumber	SelfErrorTab_9_7	N	Error number of the 7th error bit	2505	Integer	W	
22.12.11	bit 9 errornumber	SelfErrorTab_9_8	N	Error number of the 8th error bit	2506	Integer	W	
22.12.12	bit 10 errornumber	SelfErrorTab_9_9	N	Error number of the 9th error bit	2507	Integer	W	
22.12.13	bit 11 errornumber	SelfErrorTab_9_10	N	Error number of the 10th error bit	2508	Integer	W	
22.12.14	bit 12 errornumber	SelfErrorTab_9_11	N	Error number of the 11th error bit	2509	Integer	W	
22.12.15	bit 12 errornumber	SelfErrorTab_9_12	N	Error number of the 12th error bit	2510	Integer	W	
22.12.16	bit 14 errornumber	SelfErrorTab_9_13	N	Error number of the 13th error bit	2511	Integer	W	
22.12.17	bit 15 errornumber	SelfErrorTab_9_14	N	Error number of the 14th error bit	2512	Integer	W	
22.12.18	bit 16 errornumber	SelfErrorTab_9_15	N	Error number of the 15th error bit	2513	Integer	W	
22.13.0	custom statusbits 11	HEAD_22_13	A	-	2340	Titel	R	
22.13.1	error status	SelfErrorTab_10	A	Status of the self error bits	2352	Integer	R	hex
22.13.2	stream no	SelfErrorTab- Stream_10	N	Assignment of a specific stream to the error bits	2589	Menü	W	
22.13.3	bit 1 errornumber	SelfErrorTab_10_0	N	Error number of the 1st error bit	2514	Integer	W	
22.13.4	bit 2 errornumber	SelfErrorTab_10_1	N	Error number of the 2nd error bit	2515	Integer	W	
22.13.5	bit 3 errornumber	SelfErrorTab_10_2	N	Error number of the 2nd error bit	2516	Integer	W	
22.13.6	bit 4 errornumber	SelfErrorTab_10_3	N	Error number of the 3rd error bit	2517	Integer	W	
22.13.7	bit 5 errornumber	SelfErrorTab_10_4	N	Error number of the 4th error bit	2518	Integer	W	
22.13.8	bit 6 errornumber	SelfErrorTab_10_5	N	Error number of the 5th error bit	2519	Integer	W	
22.13.9	bit 7 errornumber	SelfErrorTab_10_6	N	Error number of the 6th error bit	2520	Integer	W	
22.13.10	bit 8 errornumber	SelfErrorTab_10_7	N	Error number of the 7th error bit	2521	Integer	W	
22.13.11	bit 9 errornumber	SelfErrorTab_10_8	N	Error number of the 8th error bit	2522	Integer	W	
22.13.12	bit 10 errornumber	SelfErrorTab_10_9	N	Error number of the 9th error bit	2523	Integer	W	
22.13.13	bit 11 errornumber	SelfErrorT- ab_10_10	N	Error number of the 10th error bit	2524	Integer	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.13.14	bit 12 errornumber	SelfErrorTab_10_11	N	Error number of the 11th error bit	2525	Integer	W	
22.13.15	bit 12 errornumber	SelfErrorTab_10_12	N	Error number of the 12th error bit	2526	Integer	W	
22.13.16	bit 14 errornumber	SelfErrorTab_10_13	N	Error number of the 13th error bit	2527	Integer	W	
22.13.17	bit 15 errornumber	SelfErrorTab_10_14	N	Error number of the 14th error bit	2528	Integer	W	
22.13.18	bit 16 errornumber	SelfErrorTab_10_15	N	Error number of the 15th error bit	2529	Integer	W	
22.14.0	custom statusbits 12	HEAD_22_14	A	-	2341	Titel	R	
22.14.1	error status	SelfErrorTab_11	A	Status of the self error bits	2353	Integer	R	hex
22.14.2	stream no	SelfErrorTab-Stream_11	N	Assignment of a specific stream to the error bits	2590	Menü	W	
22.14.3	bit 1 errornumber	SelfErrorTab_11_0	N	Error number of the 1st error bit	2530	Integer	W	
22.14.4	bit 2 errornumber	SelfErrorTab_11_1	N	Error number of the 2nd error bit	2531	Integer	W	
22.14.5	bit 3 errornumber	SelfErrorTab_11_2	N	Error number of the 2nd error bit	2532	Integer	W	
22.14.6	bit 4 errornumber	SelfErrorTab_11_3	N	Error number of the 3rd error bit	2533	Integer	W	
22.14.7	bit 5 errornumber	SelfErrorTab_11_4	N	Error number of the 4th error bit	2534	Integer	W	
22.14.8	bit 6 errornumber	SelfErrorTab_11_5	N	Error number of the 5th error bit	2535	Integer	W	
22.14.9	bit 7 errornumber	SelfErrorTab_11_6	N	Error number of the 6th error bit	2536	Integer	W	
22.14.10	bit 8 errornumber	SelfErrorTab_11_7	N	Error number of the 7th error bit	2537	Integer	W	
22.14.11	bit 9 errornumber	SelfErrorTab_11_8	N	Error number of the 8th error bit	2538	Integer	W	
22.14.12	bit 10 errornumber	SelfErrorTab_11_9	N	Error number of the 9th error bit	2539	Integer	W	
22.14.13	bit 11 errornumber	SelfErrorTab_11_10	N	Error number of the 10th error bit	2540	Integer	W	
22.14.14	bit 12 errornumber	SelfErrorTab_11_11	N	Error number of the 11th error bit	2541	Integer	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
22.14.15	bit 12 errornumber	SelfErrorTab_11_12	N	Error number of the 12th error bit	2542	Integer	W	
22.14.16	bit 14 errornumber	SelfErrorTab_11_13	N	Error number of the 13th error bit	2543	Integer	W	
22.14.17	bit 15 errornumber	SelfErrorTab_11_14	N	Error number of the 14th error bit	2544	Integer	W	
22.14.18	bit 16 errornumber	SelfErrorTab_11_15	N	Error number of the 15th error bit	2545	Integer	W	
23.0.0	Hourly values	HEAD_23	A	-	1606	Titel	R	
23.1.0	Stream 1	HEAD_23_1	A	-	1607	Titel	R	
23.1.1	date	HV_Time_S1	P	Time of formation of the last hourly values for stream 1. This record for the last hourly values can be read out via Modbus.	3206	Unix-time	R	
23.1.2	Hs	HV_Ho_S1	P	Last hourly value for the superior calorific value (stream 1).	20000	Float	R	&UnitHs
23.1.3	Ws	HV_Wo_S1	P	Last hourly value for the Wobbe index (stream 1).	20002	Float	R	&UnitHs
23.1.4	rho	HV_Rhon_S1	P	Last hourly value for the standard density (stream 1).	20004	Float	R	&UnitRhon
23.1.5	d	HV_DV_S1	P	Last hourly value for the relative density (stream 1).	20006	Float	R	
23.1.6	Hi	HV_Hu_S1	P	Last hourly value for the inferior calorific value (stream 1).	20008	Float	R	&UnitHs
23.1.7	Wi	HV_Wu_S1	P	Last hourly value for the lower Wobbe index (stream 1).	20010	Float	R	&UnitHs
23.1.8	Zn	HV_Zn_S1	P	Last hourly value for the real gas factor (stream 1).	20012	Float	R	
23.1.9	Mz	HV_Mz_S1	P	Last hourly value for the methane number (stream 1).	20014	Float	R	
23.1.10	Unnormalized sum	HV_UnNormSum_S1	P	Last hourly value for the unnormalized sum (stream 1).	20016	Float	R	
23.1.11	Nitrogen	HV_Conc_S1_0	P	Last hourly value for the nitrogen content (stream 1).	20018	Float	R	mol%
23.1.12	Methane	HV_Conc_S1_1	P	Last hourly value for the methane content (stream 1).	20020	Float	R	mol%
23.1.13	Carbon Dioxide	HV_Conc_S1_2	P	Last hourly value for the carbon dioxide content (stream 1).	20022	Float	R	mol%
23.1.14	Ethane	HV_Conc_S1_3	P	Last hourly value for the ethane content (stream 1).	20024	Float	R	mol%
23.1.15	Propane	HV_Conc_S1_4	P	Last hourly value for the propane content (stream 1).	20026	Float	R	mol%
23.1.16	iso-Butane	HV_Conc_S1_5	P	Last hourly value for the i-butane content (stream 1).	20028	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
23.1.17	n-Butane	HV_Conc_S1_6	P	Last hourly value for the n-butane content (stream 1).	20030	Float	R	mol%
23.1.18	neo-Pentane	HV_Conc_S1_7	P	Last hourly value for the neopentane content (stream 1).	20032	Float	R	mol%
23.1.19	iso-Pentane	HV_Conc_S1_8	P	Last hourly value for the i-pentane content (stream 1).	20034	Float	R	mol%
23.1.20	n-Pentane	HV_Conc_S1_9	P	Last hourly value for the n-pentane content (stream 1).	20036	Float	R	mol%
23.1.21	C6+	HV_Conc_S1_10	P	Last hourly value for the C6+ content (stream 1).	20038	Float	R	mol%
23.1.22	n-Hexane	HV_Conc_S1_11	P	Last hourly value for the n-hexane content (stream 1).	20040	Float	R	mol%
23.1.23	n-Heptane	HV_Conc_S1_12	P	Last hourly value for the n-heptane content (stream 1).	20042	Float	R	mol%
23.1.24	n-Octane	HV_Conc_S1_13	P	Last hourly value for the n-octane content (stream 1).	20044	Float	R	mol%
23.1.25	n-Nonane	HV_Conc_S1_14	P	Last hourly value for the n-nonane content (stream 1).	20046	Float	R	mol%
23.1.26	Oxygen	HV_Conc_S1_15	P	Last hourly value for the oxygen content (stream 1).	20048	Float	R	mol%
23.1.27	Helium	HV_Conc_S1_16	P	Last hourly value for the helium content (stream 1).	20050	Float	R	mol%
23.1.28	Hydrogen	HV_Conc_S1_17	P	Last hourly value for the hydrogen content (stream 1).	20052	Float	R	mol%
23.1.29	Argon	HV_Conc_S1_18	P	Last hourly value for the argon content (stream 1).	20054	Float	R	mol%
23.1.30	Methanol	HV_Conc_S1_19	P	Last hourly value for the methanol content (stream 1).	20056	Float	R	mol%
23.1.31	Hydrogensulfid	HV_Conc_S1_20	P	Last hourly value for the hydrogensulfid content (stream 1).	21744	Float	R	mol%
23.1.32	Num. meas. total	HV_countges_S1	P	Number of analyses on stream 1, which were made in the last hour.	1679	Integer	R	
23.1.33	Num. meas. ok	HV_countok_S1	P	Number of successful analyses on stream 1, which were made in the last hour.	1680	Integer	R	
23.1.34	User value 1	HV_User_S1_0	P	Last hourly value for user-defined archive value 1 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20058	Float	R	
23.1.35	User value 2	HV_User_S1_1	P	Last hourly value for user-defined archive value 2 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20060	Float	R	
23.1.36	User value 3	HV_User_S1_2	P	Last hourly value for user-defined archive value 3 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20062	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
23.1.37	User value 4	HV_User_S1_3	P	Last hourly value for user-defined archive value 4 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20064	Float	R	
23.1.38	User value 5	HV_User_S1_4	P	Last hourly value for user-defined archive value 5 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20066	Float	R	
23.1.39	User value 6	HV_User_S1_5	P	Last hourly value for user-defined archive value 6 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20068	Float	R	
23.1.40	User value 7	HV_User_S1_6	P	Last hourly value for user-defined archive value 7 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20070	Float	R	
23.1.41	User value 8	HV_User_S1_7	P	Last hourly value for user-defined archive value 8 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20072	Float	R	
23.1.42	User value 9	HV_User_S1_8	P	Last hourly value for user-defined archive value 9 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20074	Float	R	
23.1.43	User value 10	HV_User_S1_9	P	Last hourly value for user-defined archive value 10 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20076	Float	R	
23.1.44	User value 11	HV_User_S1_10	P	Last hourly value for user-defined archive value 11 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20078	Float	R	
23.1.45	User value 12	HV_User_S1_11	P	Last hourly value for user-defined archive value 12 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20080	Float	R	
23.1.46	User value 13	HV_User_S1_12	P	Last hourly value for user-defined archive value 13 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20082	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
23.1.47	User value 14	HV_User_S1_13	P	Last hourly value for user-defined archive value 14 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20084	Float	R	
23.1.48	User value 15	HV_User_S1_14	P	Last hourly value for user-defined archive value 15 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20086	Float	R	
23.1.49	User value 16	HV_User_S1_15	P	Last hourly value for user-defined archive value 16 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20088	Float	R	
23.1.50	User value 17	HV_User_S1_16	P	Last hourly value for user-defined archive value 17 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20090	Float	R	
23.1.51	User value 18	HV_User_S1_17	P	Last hourly value for user-defined archive value 18 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20092	Float	R	
23.1.52	User value 19	HV_User_S1_18	P	Last hourly value for user-defined archive value 19 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20094	Float	R	
23.1.53	User value 20	HV_User_S1_19	P	Last hourly value for user-defined archive value 20 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20096	Float	R	
23.2.0	Stream 2	HEAD_23_2	A	-	1608	Titel	R	
23.2.1	date	HV_Time_S2	P	Time of formation of the last hourly values for stream 2. This record for the last hourly values can be read out via Modbus.	3208	Unix-time	R	
23.2.2	Hs	HV_Ho_S2	P	Last hourly value for the superior calorific value (stream 2).	20098	Float	R	&UnitHs
23.2.3	Ws	HV_Wo_S2	P	Last hourly value for the Wobbe index (stream 2).	20100	Float	R	&UnitHs
23.2.4	rho	HV_Rhon_S2	P	Last hourly value for the standard density (stream 2).	20102	Float	R	&UnitRhon
23.2.5	d	HV_DV_S2	P	Last hourly value for the relative density (stream 2).	20104	Float	R	
23.2.6	Hi	HV_Hu_S2	P	Last hourly value for the inferior calorific value (stream 2).	20106	Float	R	&UnitHs
23.2.7	Wi	HV_Wu_S2	P	Last hourly value for the lower Wobbe index (stream 2).	20108	Float	R	&UnitHs

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
23.2.8	Zn	HV_Zn_S2	P	Last hourly value for the real gas factor (stream 2).	20110	Float	R	
23.2.9	Mz	HV_Mz_S2	P	Last hourly value for the methane number (stream 2).	20112	Float	R	
23.2.10	Unnormalized sum	HV_UnNo- rmSum_S2	P	Last hourly value for the unnormalized sum (stream 2).	20114	Float	R	
23.2.11	Nitrogen	HV_Conc_S2_0	P	Last hourly value for the nitrogen content (stream 2).	20116	Float	R	mol%
23.2.12	Methane	HV_Conc_S2_1	P	Last hourly value for the methane content (stream 2).	20118	Float	R	mol%
23.2.13	Carbon Dioxide	HV_Conc_S2_2	P	Last hourly value for the carbon dioxide content (stream 2).	20120	Float	R	mol%
23.2.14	Ethane	HV_Conc_S2_3	P	Last hourly value for the ethane content (stream 2).	20122	Float	R	mol%
23.2.15	Propane	HV_Conc_S2_4	P	Last hourly value for the propane content (stream 2).	20124	Float	R	mol%
23.2.16	iso-Butane	HV_Conc_S2_5	P	Last hourly value for the i-butane content (stream 2).	20126	Float	R	mol%
23.2.17	n-Butane	HV_Conc_S2_6	P	Last hourly value for the n-butane content (stream 2).	20128	Float	R	mol%
23.2.18	neo-Pentane	HV_Conc_S2_7	P	Last hourly value for the neopentane content (stream 2).	20130	Float	R	mol%
23.2.19	iso-Pentane	HV_Conc_S2_8	P	Last hourly value for the i-pentane content (stream 2).	20132	Float	R	mol%
23.2.20	n-Pentane	HV_Conc_S2_9	P	Last hourly value for the n-pentane content (stream 2).	20134	Float	R	mol%
23.2.21	C6+	HV_Conc_S2_10	P	Last hourly value for the C6+ content (stream 2).	20136	Float	R	mol%
23.2.22	n-Hexane	HV_Conc_S2_11	P	Last hourly value for the n-hexane content (stream 2).	20138	Float	R	mol%
23.2.23	n-Heptane	HV_Conc_S2_12	P	Last hourly value for the n-heptane content (stream 2).	20140	Float	R	mol%
23.2.24	n-Octane	HV_Conc_S2_13	P	Last hourly value for the n-octane content (stream 2).	20142	Float	R	mol%
23.2.25	n-Nonane	HV_Conc_S2_14	P	Last hourly value for the n-nonane content (stream 2).	20144	Float	R	mol%
23.2.26	Oxygen	HV_Conc_S2_15	P	Last hourly value for the oxygen content (stream 2).	20146	Float	R	mol%
23.2.27	Helium	HV_Conc_S2_16	P	Last hourly value for the helium content (stream 2).	20148	Float	R	mol%
23.2.28	Hydrogen	HV_Conc_S2_17	P	Last hourly value for the hydrogen content (stream 2).	20150	Float	R	mol%
23.2.29	Argon	HV_Conc_S2_18	P	Last hourly value for the argon content (stream 2).	20152	Float	R	mol%
23.2.30	Methanol	HV_Conc_S2_19	P	Last hourly value for the methanol content (stream 2).	20154	Float	R	mol%
23.2.31	Hydrogensulfid	HV_Conc_S2_20	P	Last hourly value for the hydrogensulfid content (stream 2).	21746	Float	R	mol%
23.2.32	Num. meas. total	HV_countges_S2	P	Number of analyses on stream 2, which were made in the last hour.	1681	Integer	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
23.2.33	Num. meas. ok	HV_countok_S2	P	Number of successful analyses on stream 2, which were made in the last hour.	1682	Integer	R	
23.2.34	User value 1	HV_User_S2_0	P	Last hourly value for user-defined archive value 1 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20156	Float	R	
23.2.35	User value 2	HV_User_S2_1	P	Last hourly value for user-defined archive value 2 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20158	Float	R	
23.2.36	User value 3	HV_User_S2_2	P	Last hourly value for user-defined archive value 3 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20160	Float	R	
23.2.37	User value 4	HV_User_S2_3	P	Last hourly value for user-defined archive value 4 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20162	Float	R	
23.2.38	User value 5	HV_User_S2_4	P	Last hourly value for user-defined archive value 5 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20164	Float	R	
23.2.39	User value 6	HV_User_S2_5	P	Last hourly value for user-defined archive value 6 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20166	Float	R	
23.2.40	User value 7	HV_User_S2_6	P	Last hourly value for user-defined archive value 7 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20168	Float	R	
23.2.41	User value 8	HV_User_S2_7	P	Last hourly value for user-defined archive value 8 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20170	Float	R	
23.2.42	User value 9	HV_User_S2_8	P	Last hourly value for user-defined archive value 9 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20172	Float	R	
23.2.43	User value 10	HV_User_S2_9	P	Last hourly value for user-defined archive value 10 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20174	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
23.2.44	User value 11	HV_User_S2_10	P	Last hourly value for user-defined archive value 11 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20176	Float	R	
23.2.45	User value 12	HV_User_S2_11	P	Last hourly value for user-defined archive value 12 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20178	Float	R	
23.2.46	User value 13	HV_User_S2_12	P	Last hourly value for user-defined archive value 13 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20180	Float	R	
23.2.47	User value 14	HV_User_S2_13	P	Last hourly value for user-defined archive value 14 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20182	Float	R	
23.2.48	User value 15	HV_User_S2_14	P	Last hourly value for user-defined archive value 15 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20184	Float	R	
23.2.49	User value 16	HV_User_S2_15	P	Last hourly value for user-defined archive value 16 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20186	Float	R	
23.2.50	User value 17	HV_User_S2_16	P	Last hourly value for user-defined archive value 17 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20188	Float	R	
23.2.51	User value 18	HV_User_S2_17	P	Last hourly value for user-defined archive value 18 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20190	Float	R	
23.2.52	User value 19	HV_User_S2_18	P	Last hourly value for user-defined archive value 19 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20192	Float	R	
23.2.53	User value 20	HV_User_S2_19	P	Last hourly value for user-defined archive value 20 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20194	Float	R	
24.0.0	Daily values	HEAD_24	A	-	1891	Titel	R	
24.1.0	Stream 1	HEAD_24_1	A	-	1892	Titel	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.1.1	date	DV_Time_S1	P	Time of formation of the last daily values for stream 1. This record for the last daily values can be read out via Modbus.	3228	Unix-time	R	
24.1.2	Hs	DV_Ho_S1	P	Last daily value for the superior calorific value (stream 1).	20392	Float	R	&UnitHs
24.1.3	Ws	DV_Wo_S1	P	Last daily value for the Wobbe index (stream 1).	20394	Float	R	&UnitHs
24.1.4	rho	DV_Rhon_S1	P	Last daily value for the standard density (stream 1).	20396	Float	R	&UnitRhon
24.1.5	d	DV_DV_S1	P	Last daily value for the relative density (stream 1).	20398	Float	R	
24.1.6	Hi	DV_Hu_S1	P	Last daily value for the inferior calorific value (stream 1).	20400	Float	R	&UnitHs
24.1.7	Wi	DV_Wu_S1	P	Last daily value for the lower Wobbe index (stream 1).	20402	Float	R	&UnitHs
24.1.8	Zn	DV_Zn_S1	P	Last daily value for the real gas factor (stream 1).	20404	Float	R	
24.1.9	Mz	DV_Mz_S1	P	Last daily value for the methane number (stream 1).	20406	Float	R	
24.1.10	Unnormalized sum	DV_UnNormSum_S1	P	Last daily value for the unnormalized sum (stream 1).	20408	Float	R	
24.1.11	Nitrogen	DV_Conc_S1_0	P	Last daily value for the nitrogen content (stream 1).	20410	Float	R	mol%
24.1.12	Methane	DV_Conc_S1_1	P	Last daily value for the methane content (stream 1).	20412	Float	R	mol%
24.1.13	Carbon Dioxide	DV_Conc_S1_2	P	Last daily value for the carbon dioxide content (stream 1).	20414	Float	R	mol%
24.1.14	Ethane	DV_Conc_S1_3	P	Last daily value for the ethane content (stream 1).	20416	Float	R	mol%
24.1.15	Propane	DV_Conc_S1_4	P	Last daily value for the propane content (stream 1).	20418	Float	R	mol%
24.1.16	iso-Butane	DV_Conc_S1_5	P	Last daily value for the i-butane content (stream 1).	20420	Float	R	mol%
24.1.17	n-Butane	DV_Conc_S1_6	P	Last daily value for the n-butane content (stream 1).	20422	Float	R	mol%
24.1.18	neo-Pentane	DV_Conc_S1_7	P	Last daily value for the neopentane content (stream 1).	20424	Float	R	mol%
24.1.19	iso-Pentane	DV_Conc_S1_8	P	Last daily value for the i-pentane content (stream 1).	20426	Float	R	mol%
24.1.20	n-Pentane	DV_Conc_S1_9	P	Last daily value for the n-pentane content (stream 1).	20428	Float	R	mol%
24.1.21	C6+	DV_Conc_S1_10	P	Last daily value for the C6+ content (stream 1).	20430	Float	R	mol%
24.1.22	n-Hexane	DV_Conc_S1_11	P	Last daily value for the n-hexane content (stream 1).	20432	Float	R	mol%
24.1.23	n-Heptane	DV_Conc_S1_12	P	Last daily value for the n-heptane content (stream 1).	20434	Float	R	mol%
24.1.24	n-Octane	DV_Conc_S1_13	P	Last daily value for the n-octane content (stream 1).	20436	Float	R	mol%
24.1.25	n-Nonane	DV_Conc_S1_14	P	Last daily value for the n-nonane content (stream 1).	20438	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.1.26	Oxygen	DV_Conc_S1_15	P	Last daily value for the oxygen content (stream 1).	20440	Float	R	mol%
24.1.27	Helium	DV_Conc_S1_16	P	Last daily value for the helium content (stream 1).	20442	Float	R	mol%
24.1.28	Hydrogen	DV_Conc_S1_17	P	Last daily value for the hydrogen content (stream 1).	20444	Float	R	mol%
24.1.29	Argon	DV_Conc_S1_18	P	Last daily value for the argon content (stream 1).	20446	Float	R	mol%
24.1.30	Methanol	DV_Conc_S1_19	P	Last daily value for the methanol content (stream 1).	20448	Float	R	mol%
24.1.31	Hydrogensulfid	DV_Conc_S1_20	P	Last daily value for the hydrogensulfid content (stream 1).	21752	Float	R	mol%
24.1.32	Num. meas. total	DV_countges_S1	P	Number of analyses on stream 1, which were made on the last day.	1896	Integer	R	
24.1.33	Num. meas. ok	DV_countok_S1	P	Number of successful analyses on stream 1, which were made on the last day.	1897	Integer	R	
24.1.34	User value 1	DV_User_S1_0	P	Last daily value for user-defined archive value 1 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20450	Float	R	
24.1.35	User value 2	DV_User_S1_1	P	Last daily value for user-defined archive value 2 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20452	Float	R	
24.1.36	User value 3	DV_User_S1_2	P	Last daily value for user-defined archive value 3 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20454	Float	R	
24.1.37	User value 4	DV_User_S1_3	P	Last daily value for user-defined archive value 4 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20456	Float	R	
24.1.38	User value 5	DV_User_S1_4	P	Last daily value for user-defined archive value 5 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20458	Float	R	
24.1.39	User value 6	DV_User_S1_5	P	Last daily value for user-defined archive value 6 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20460	Float	R	
24.1.40	User value 7	DV_User_S1_6	P	Last daily value for user-defined archive value 7 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20462	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.1.41	User value 8	DV_User_S1_7	P	Last daily value for user-defined archive value 8 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20464	Float	R	
24.1.42	User value 9	DV_User_S1_8	P	Last daily value for user-defined archive value 9 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20466	Float	R	
24.1.43	User value 10	DV_User_S1_9	P	Last daily value for user-defined archive value 10 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20468	Float	R	
24.1.44	User value 11	DV_User_S1_10	P	Last daily value for user-defined archive value 11 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20470	Float	R	
24.1.45	User value 12	DV_User_S1_11	P	Last daily value for user-defined archive value 12 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20472	Float	R	
24.1.46	User value 13	DV_User_S1_12	P	Last daily value for user-defined archive value 13 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20474	Float	R	
24.1.47	User value 14	DV_User_S1_13	P	Last daily value for user-defined archive value 14 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20476	Float	R	
24.1.48	User value 15	DV_User_S1_14	P	Last daily value for user-defined archive value 15 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20478	Float	R	
24.1.49	User value 16	DV_User_S1_15	P	Last daily value for user-defined archive value 16 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20480	Float	R	
24.1.50	User value 17	DV_User_S1_16	P	Last daily value for user-defined archive value 17 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20482	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.1.51	User value 18	DV_User_S1_17	P	Last daily value for user-defined archive value 18 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20484	Float	R	
24.1.52	User value 19	DV_User_S1_18	P	Last daily value for user-defined archive value 19 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20486	Float	R	
24.1.53	User value 20	DV_User_S1_19	P	Last daily value for user-defined archive value 20 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20488	Float	R	
24.2.0	Stream 2	HEAD_24_2	A	-	1893	Titel	R	
24.2.1	date	DV_Time_S2	P	Time of formation of the last daily values for stream 2. This record for the last daily values can be read out via Modbus.	3230	Unix-time	R	
24.2.2	Hs	DV_Ho_S2	P	Last daily value for the superior calorific value (stream 2).	20490	Float	R	&UnitHs
24.2.3	Ws	DV_Wo_S2	P	Last daily value for the Wobbe index (stream 2).	20492	Float	R	&UnitHs
24.2.4	rho	DV_Rhon_S2	P	Last daily value for the standard density (stream 2).	20494	Float	R	&UnitRhon
24.2.5	d	DV_DV_S2	P	Last daily value for the relative density (stream 2).	20496	Float	R	
24.2.6	Hi	DV_Hu_S2	P	Last daily value for the inferior calorific value (stream 2).	20498	Float	R	&UnitHs
24.2.7	Wi	DV_Wu_S2	P	Last daily value for the lower Wobbe index (stream 2).	20500	Float	R	&UnitHs
24.2.8	Zn	DV_Zn_S2	P	Last daily value for the real gas factor (stream 2).	20502	Float	R	
24.2.9	Mz	DV_Mz_S2	P	Last daily value for the methane number (stream 2).	20504	Float	R	
24.2.10	Unnormalized sum	DV_UnNo-rmSum_S2	P	Last daily value for the unnormalized sum (stream 2).	20506	Float	R	
24.2.11	Nitrogen	DV_Conc_S2_0	P	Last daily value for the nitrogen content (stream 2).	20508	Float	R	mol%
24.2.12	Methane	DV_Conc_S2_1	P	Last daily value for the methane content (stream 2).	20510	Float	R	mol%
24.2.13	Carbon Dioxide	DV_Conc_S2_2	P	Last daily value for the carbon dioxide content (stream 2).	20512	Float	R	mol%
24.2.14	Ethane	DV_Conc_S2_3	P	Last daily value for the ethane content (stream 2).	20514	Float	R	mol%
24.2.15	Propane	DV_Conc_S2_4	P	Last daily value for the propane content (stream 2).	20516	Float	R	mol%
24.2.16	iso-Butane	DV_Conc_S2_5	P	Last daily value for the i-butane content (stream 2).	20518	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.2.17	n-Butane	DV_Conc_S2_6	P	Last daily value for the n-butane content (stream 2).	20520	Float	R	mol%
24.2.18	neo-Pentane	DV_Conc_S2_7	P	Last daily value for the neopentane content (stream 2).	20522	Float	R	mol%
24.2.19	iso-Pentane	DV_Conc_S2_8	P	Last daily value for the i-pentane content (stream 2).	20524	Float	R	mol%
24.2.20	n-Pentane	DV_Conc_S2_9	P	Last daily value for the n-pentane content (stream 2).	20526	Float	R	mol%
24.2.21	C6+	DV_Conc_S2_10	P	Last daily value for the C6+ content (stream 2).	20528	Float	R	mol%
24.2.22	n-Hexane	DV_Conc_S2_11	P	Last daily value for the n-hexane content (stream 2).	20530	Float	R	mol%
24.2.23	n-Heptane	DV_Conc_S2_12	P	Last daily value for the n-heptane content (stream 2).	20532	Float	R	mol%
24.2.24	n-Octane	DV_Conc_S2_13	P	Last daily value for the n-octane content (stream 2).	20534	Float	R	mol%
24.2.25	n-Nonane	DV_Conc_S2_14	P	Last daily value for the n-nonane content (stream 2).	20536	Float	R	mol%
24.2.26	Oxygen	DV_Conc_S2_15	P	Last daily value for the oxygen content (stream 2).	20538	Float	R	mol%
24.2.27	Helium	DV_Conc_S2_16	P	Last daily value for the helium content (stream 2).	20540	Float	R	mol%
24.2.28	Hydrogen	DV_Conc_S2_17	P	Last daily value for the hydrogen content (stream 2).	20542	Float	R	mol%
24.2.29	Argon	DV_Conc_S2_18	P	Last daily value for the argon content (stream 2).	20544	Float	R	mol%
24.2.30	Methanol	DV_Conc_S2_19	P	Last daily value for the methanol content (stream 2).	20546	Float	R	mol%
24.2.31	Hydrogensulfid	DV_Conc_S2_20	P	Last daily value for the hydrogensulfid content (stream 2).	21754	Float	R	mol%
24.2.32	Num. meas. total	DV_countges_S2	P	Number of analyses on stream 2, which were made on the last day.	1898	Integer	R	
24.2.33	Num. meas. ok	DV_countok_S2	P	Number of successful analyses on stream 2, which were made on the last day.	1899	Integer	R	
24.2.34	User value 1	DV_User_S2_0	P	Last daily value for user-defined archive value 1 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20548	Float	R	
24.2.35	User value 2	DV_User_S2_1	P	Last daily value for user-defined archive value 2 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20550	Float	R	
24.2.36	User value 3	DV_User_S2_2	P	Last daily value for user-defined archive value 3 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20552	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.2.37	User value 4	DV_User_S2_3	P	Last daily value for user-defined archive value 4 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20554	Float	R	
24.2.38	User value 5	DV_User_S2_4	P	Last daily value for user-defined archive value 5 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20556	Float	R	
24.2.39	User value 6	DV_User_S2_5	P	Last daily value for user-defined archive value 6 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20558	Float	R	
24.2.40	User value 7	DV_User_S2_6	P	Last daily value for user-defined archive value 7 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20560	Float	R	
24.2.41	User value 8	DV_User_S2_7	P	Last daily value for user-defined archive value 8 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20562	Float	R	
24.2.42	User value 9	DV_User_S2_8	P	Last daily value for user-defined archive value 9 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20564	Float	R	
24.2.43	User value 10	DV_User_S2_9	P	Last daily value for user-defined archive value 10 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20566	Float	R	
24.2.44	User value 11	DV_User_S2_10	P	Last daily value for user-defined archive value 11 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20568	Float	R	
24.2.45	User value 12	DV_User_S2_11	P	Last daily value for user-defined archive value 12 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20570	Float	R	
24.2.46	User value 13	DV_User_S2_12	P	Last daily value for user-defined archive value 13 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20572	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
24.2.47	User value 14	DV_User_S2_13	P	Last daily value for user-defined archive value 14 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20574	Float	R	
24.2.48	User value 15	DV_User_S2_14	P	Last daily value for user-defined archive value 15 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20576	Float	R	
24.2.49	User value 16	DV_User_S2_15	P	Last daily value for user-defined archive value 16 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20578	Float	R	
24.2.50	User value 17	DV_User_S2_16	P	Last daily value for user-defined archive value 17 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20580	Float	R	
24.2.51	User value 18	DV_User_S2_17	P	Last daily value for user-defined archive value 18 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20582	Float	R	
24.2.52	User value 19	DV_User_S2_18	P	Last daily value for user-defined archive value 19 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20584	Float	R	
24.2.53	User value 20	DV_User_S2_19	P	Last daily value for user-defined archive value 20 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20586	Float	R	
25.0.0	Monthly values	HEAD_25	A	-	1876	Titel	R	
25.1.0	Stream 1	HEAD_25_1	A	-	1877	Titel	R	
25.1.1	date	MV_Time_S1	P	Time of formation of the last monthly values for stream 1. This record for the last monthly values can be read out via Modbus.	3220	Unix-time	R	
25.1.2	Hs	MV_Ho_S1	P	Last monthly value for the superior calorific value (stream 1).	20784	Float	R	&UnitHs
25.1.3	Ws	MV_Wo_S1	P	Last monthly value for the Wobbe index (stream 1).	20786	Float	R	&UnitHs
25.1.4	rho	MV_Rhon_S1	P	Last monthly value for the standard density (stream 1).	20788	Float	R	&UnitRhon
25.1.5	d	MV_DV_S1	P	Last monthly value for the relative density (stream 1).	20790	Float	R	

Table 12: Modbus parameter list

Coor- date	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
25.1.6	Hi	MV_Hu_S1	P	Last monthly value for the inferior calorific value (stream 1).	20792	Float	R	&UnitHs
25.1.7	Wi	MV_Wu_S1	P	Last monthly value for the lower Wobbe index (stream 1).	20794	Float	R	&UnitHs
25.1.8	Zn	MV_Zn_S1	P	Last monthly value for the real gas factor (stream 1).	20796	Float	R	
25.1.9	Mz	MV_Mz_S1	P	Last monthly value for the methane number (stream 1).	20798	Float	R	
25.1.10	Unnormalized sum	MV_UnNo- rmSum_S1	P	Last monthly value for the unnormalized sum (stream 1).	20800	Float	R	
25.1.11	Nitrogen	MV_Conc_S1_0	P	Last monthly value for the nitrogen content (stream 1).	20802	Float	R	mol%
25.1.12	Methane	MV_Conc_S1_1	P	Last monthly value for the methane content (stream 1).	20804	Float	R	mol%
25.1.13	Carbon Dioxide	MV_Conc_S1_2	P	Last monthly value for the carbon dioxide content (stream 1).	20806	Float	R	mol%
25.1.14	Ethane	MV_Conc_S1_3	P	Last monthly value for the ethane content (stream 1).	20808	Float	R	mol%
25.1.15	Propane	MV_Conc_S1_4	P	Last monthly value for the propane content (stream 1).	20810	Float	R	mol%
25.1.16	iso-Butane	MV_Conc_S1_5	P	Last monthly value for the i-butane content (stream 1).	20812	Float	R	mol%
25.1.17	n-Butane	MV_Conc_S1_6	P	Last monthly value for the n-butane content (stream 1).	20814	Float	R	mol%
25.1.18	neo-Pentane	MV_Conc_S1_7	P	Last monthly value for the neopentane content (stream 1).	20816	Float	R	mol%
25.1.19	iso-Pentane	MV_Conc_S1_8	P	Last monthly value for the i-pentane content (stream 1).	20818	Float	R	mol%
25.1.20	n-Pentane	MV_Conc_S1_9	P	Last monthly value for the n-pentane content (stream 1).	20820	Float	R	mol%
25.1.21	C6+	MV_Conc_S1_10	P	Last monthly value for the C6+ content (stream 1).	20822	Float	R	mol%
25.1.22	n-Hexane	MV_Conc_S1_11	P	Last monthly value for the n-hexane content (stream 1).	20824	Float	R	mol%
25.1.23	n-Heptane	MV_Conc_S1_12	P	Last monthly value for the n-heptane content (stream 1).	20826	Float	R	mol%
25.1.24	n-Octane	MV_Conc_S1_13	P	Last monthly value for the n-octane content (stream 1).	20828	Float	R	mol%
25.1.25	n-Nonane	MV_Conc_S1_14	P	Last monthly value for the n-nonane content (stream 1).	20830	Float	R	mol%
25.1.26	Oxygen	MV_Conc_S1_15	P	Last monthly value for the oxygen content (stream 1).	20832	Float	R	mol%
25.1.27	Helium	MV_Conc_S1_16	P	Last monthly value for the helium content (stream 1).	20834	Float	R	mol%
25.1.28	Hydrogen	MV_Conc_S1_17	P	Last monthly value for the hydrogen content (stream 1).	20836	Float	R	mol%
25.1.29	Argon	MV_Conc_S1_18	P	Last monthly value for the argon content (stream 1).	20838	Float	R	mol%
25.1.30	Methanol	MV_Conc_S1_19	P	Last monthly value for the methanol content (stream 1).	20840	Float	R	mol%
25.1.31	Hydrogensulfid	MV_Conc_S1_20	P	Last monthly value for the hydrogensulfid content (stream 1).	21760	Float	R	mol%

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
25.1.32	Num. meas. total	MV_countges_S1	P	Number of analyses on stream 1, which were made in the last-month.	1881	Integer	R	
25.1.33	Num. meas. ok	MV_countok_S1	P	Number of successful analyses on stream 1, which were made in the last month.	1882	Integer	R	
25.1.34	User value 1	MV_User_S1_0	P	Last monthly value for user-defined archive value 1 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20842	Float	R	
25.1.35	User value 2	MV_User_S1_1	P	Last monthly value for user-defined archive value 2 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20844	Float	R	
25.1.36	User value 3	MV_User_S1_2	P	Last monthly value for user-defined archive value 3 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20846	Float	R	
25.1.37	User value 4	MV_User_S1_3	P	Last monthly value for user-defined archive value 4 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20848	Float	R	
25.1.38	User value 5	MV_User_S1_4	P	Last monthly value for user-defined archive value 5 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20850	Float	R	
25.1.39	User value 6	MV_User_S1_5	P	Last monthly value for user-defined archive value 6 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20852	Float	R	
25.1.40	User value 7	MV_User_S1_6	P	Last monthly value for user-defined archive value 7 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20854	Float	R	
25.1.41	User value 8	MV_User_S1_7	P	Last monthly value for user-defined archive value 8 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20856	Float	R	
25.1.42	User value 9	MV_User_S1_8	P	Last monthly value for user-defined archive value 9 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20858	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
25.1.43	User value 10	MV_User_S1_9	P	Last monthly value for user-defined archive value 10 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20860	Float	R	
25.1.44	User value 11	MV_User_S1_10	P	Last monthly value for user-defined archive value 11 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20862	Float	R	
25.1.45	User value 12	MV_User_S1_11	P	Last monthly value for user-defined archive value 12 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20864	Float	R	
25.1.46	User value 13	MV_User_S1_12	P	Last monthly value for user-defined archive value 13 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20866	Float	R	
25.1.47	User value 14	MV_User_S1_13	P	Last monthly value for user-defined archive value 14 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20868	Float	R	
25.1.48	User value 15	MV_User_S1_14	P	Last monthly value for user-defined archive value 15 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20870	Float	R	
25.1.49	User value 16	MV_User_S1_15	P	Last monthly value for user-defined archive value 16 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20872	Float	R	
25.1.50	User value 17	MV_User_S1_16	P	Last monthly value for user-defined archive value 17 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20874	Float	R	
25.1.51	User value 18	MV_User_S1_17	P	Last monthly value for user-defined archive value 18 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20876	Float	R	
25.1.52	User value 19	MV_User_S1_18	P	Last monthly value for user-defined archive value 19 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20878	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
25.1.53	User value 20	MV_User_S1_19	P	Last monthly value for user-defined archive value 20 (stream 1). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20880	Float	R	
25.2.0	Stream 2	HEAD_25_2	A	-	1883	Titel	R	
25.2.1	date	MV_Time_S2	P	Time of formation of the last monthly values for stream 2. This record for the last monthly values can be read out via Modbus.	3222	Unix-time	R	
25.2.2	Hs	MV_Ho_S2	P	Last monthly value for the superior calorific value (stream 2).	20882	Float	R	&UnitHs
25.2.3	Ws	MV_Wo_S2	P	Last monthly value for the Wobbe index (stream 2).	20884	Float	R	&UnitHs
25.2.4	rho	MV_Rhon_S2	P	Last monthly value for the standard density (stream 2).	20886	Float	R	&UnitRhon
25.2.5	d	MV_DV_S2	P	Last monthly value for the relative density (stream 2).	20888	Float	R	
25.2.6	Hi	MV_Hu_S2	P	Last monthly value for the inferior calorific value (stream 2).	20890	Float	R	&UnitHs
25.2.7	Wi	MV_Wu_S2	P	Last monthly value for the lower Wobbe index (stream 2).	20892	Float	R	&UnitHs
25.2.8	Zn	MV_Zn_S2	P	Last monthly value for the real gas factor (stream 2).	20894	Float	R	
25.2.9	Mz	MV_Mz_S2	P	Last monthly value for the methane number (stream 2).	20896	Float	R	
25.2.10	Unnormalized sum	MV_UnNo-rmSum_S2	P	Last monthly value for the unnormalized sum (stream 2).	20898	Float	R	
25.2.11	Nitrogen	MV_Conc_S2_0	P	Last monthly value for the nitrogen content (stream 2).	20900	Float	R	mol%
25.2.12	Methane	MV_Conc_S2_1	P	Last monthly value for the methane content (stream 2).	20902	Float	R	mol%
25.2.13	Carbon Dioxide	MV_Conc_S2_2	P	Last monthly value for the carbon dioxide content (stream 2).	20904	Float	R	mol%
25.2.14	Ethane	MV_Conc_S2_3	P	Last monthly value for the ethane content (stream 2).	20906	Float	R	mol%
25.2.15	Propane	MV_Conc_S2_4	P	Last monthly value for the propane content (stream 2).	20908	Float	R	mol%
25.2.16	iso-Butane	MV_Conc_S2_5	P	Last monthly value for the i-butane content (stream 2).	20910	Float	R	mol%
25.2.17	n-Butane	MV_Conc_S2_6	P	Last monthly value for the n-butane content (stream 2).	20912	Float	R	mol%
25.2.18	neo-Pentane	MV_Conc_S2_7	P	Last monthly value for the neopentane content (stream 2).	20914	Float	R	mol%
25.2.19	iso-Pentane	MV_Conc_S2_8	P	Last monthly value for the i-pentane content (stream 2).	20916	Float	R	mol%
25.2.20	n-Pentane	MV_Conc_S2_9	P	Last monthly value for the n-pentane content (stream 2).	20918	Float	R	mol%

Table 12: Modbus parameter list

Coordi- nate	Text English	Macro name	Protec- tion	Description	Modbus register	Type	R/W	Unit
25.2.21	C6+	MV_Conc_S2_10	P	Last monthly value for the C6+ content (stream 2).	20920	Float	R	mol%
25.2.22	n-Hexane	MV_Conc_S2_11	P	Last monthly value for the n-hexane content (stream 2).	20922	Float	R	mol%
25.2.23	n-Heptane	MV_Conc_S2_12	P	Last monthly value for the n-heptane content (stream 2).	20924	Float	R	mol%
25.2.24	n-Octane	MV_Conc_S2_13	P	Last monthly value for the n-octane content (stream 2).	20926	Float	R	mol%
25.2.25	n-Nonane	MV_Conc_S2_14	P	Last monthly value for the n-nonane content (stream 2).	20928	Float	R	mol%
25.2.26	Oxygen	MV_Conc_S2_15	P	Last monthly value for the oxygen content (stream 2).	20930	Float	R	mol%
25.2.27	Helium	MV_Conc_S2_16	P	Last monthly value for the helium content (stream 2).	20932	Float	R	mol%
25.2.28	Hydrogen	MV_Conc_S2_17	P	Last monthly value for the hydrogen content (stream 2).	20934	Float	R	mol%
25.2.29	Argon	MV_Conc_S2_18	P	Last monthly value for the argon content (stream 2).	20936	Float	R	mol%
25.2.30	Methanol	MV_Conc_S2_19	P	Last monthly value for the methanol content (stream 2).	20938	Float	R	mol%
25.2.31	Hydrogensulfid	MV_Conc_S2_20	P	Last monthly value for the hydrogensulfid content (stream 2).	21762	Float	R	mol%
25.2.32	Num. meas. total	MV_countges_S2	P	Number of analyses on stream 2, which were made in the last month.	1884	Integer	R	
25.2.33	Num. meas. ok	MV_countok_S2	P	Number of successful analyses on stream 2, which were made in the last month.	1885	Integer	R	
25.2.34	User value 1	MV_User_S2_0	P	Last monthly value for user-defined archive value 1 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20940	Float	R	
25.2.35	User value 2	MV_User_S2_1	P	Last monthly value for user-defined archive value 2 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20942	Float	R	
25.2.36	User value 3	MV_User_S2_2	P	Last monthly value for user-defined archive value 3 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20944	Float	R	
25.2.37	User value 4	MV_User_S2_3	P	Last monthly value for user-defined archive value 4 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20946	Float	R	
25.2.38	User value 5	MV_User_S2_4	P	Last monthly value for user-defined archive value 5 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20948	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
25.2.39	User value 6	MV_User_S2_5	P	Last monthly value for user-defined archive value 6 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20950	Float	R	
25.2.40	User value 7	MV_User_S2_6	P	Last monthly value for user-defined archive value 7 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20952	Float	R	
25.2.41	User value 8	MV_User_S2_7	P	Last monthly value for user-defined archive value 8 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20954	Float	R	
25.2.42	User value 9	MV_User_S2_8	P	Last monthly value for user-defined archive value 9 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20956	Float	R	
25.2.43	User value 10	MV_User_S2_9	P	Last monthly value for user-defined archive value 10 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20958	Float	R	
25.2.44	User value 11	MV_User_S2_10	P	Last monthly value for user-defined archive value 11 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20960	Float	R	
25.2.45	User value 12	MV_User_S2_11	P	Last monthly value for user-defined archive value 12 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20962	Float	R	
25.2.46	User value 13	MV_User_S2_12	P	Last monthly value for user-defined archive value 13 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20964	Float	R	
25.2.47	User value 14	MV_User_S2_13	P	Last monthly value for user-defined archive value 14 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20966	Float	R	
25.2.48	User value 15	MV_User_S2_14	P	Last monthly value for user-defined archive value 15 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20968	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
25.2.49	User value 16	MV_User_S2_15	P	Last monthly value for user-defined archive value 16 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20970	Float	R	
25.2.50	User value 17	MV_User_S2_16	P	Last monthly value for user-defined archive value 17 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20972	Float	R	
25.2.51	User value 18	MV_User_S2_17	P	Last monthly value for user-defined archive value 18 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20974	Float	R	
25.2.52	User value 19	MV_User_S2_18	P	Last monthly value for user-defined archive value 19 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20976	Float	R	
25.2.53	User value 20	MV_User_S2_19	P	Last monthly value for user-defined archive value 20 (stream 2). This value is defined under 'Archives and Memory/Freely Selectable Archives'.	20978	Float	R	
26.0.0	User	HEAD_26	A	-	1430	Titel	R	
26.0.1	Language	Language	N	Language selection for the RGC7-C. This language selection does NOT set country-specific parameters; date format or decimal separators remain unchanged. The languages German, English and Russian are currently available.	1431	Menü	W	
26.0.2	Toggle Language	LanguageToggle	N	Test function for the menus and help texts. Automatic switch (approx. 5 sec.) between two languages. Language-1 is reset when this function is disabled. Note: This test mode does not (yet) work with all screens.	1628	Menü	W	
26.0.3	1. Language	Language_1	N	Language selection 1 for changing language (test function).	1629	Menü	W	
26.0.4	2. Language	Language_2	N	Language selection 2 for changing language (test function).	1630	Menü	W	
26.0.5	Codeword set value	CodewordSetValue	E	Entry of the default value for the codeword. Please enter an 8-digit codeword here.	5660	Code	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.0.6	Codeword	Codewort	N	Entry of the codeword (8-digit). If the codeword matches the default value, programming of the corresponding parameters is enabled. Entry of an incorrect code disables programming. The icon on the right shows the codeword status, which indicates whether this parameter is freely programmable.	5680	Code	W	
26.0.7	Calib. lock status	FrontkeyStatus	A	Status of calibration lock. When the calibration switch is open, both custody transfer parameters and user parameters can be changed.	1432	Menü	R	
26.0.8	Codeword status	CodewortStatus	A	Status of the codeword. When the correct codeword is entered, the user parameters can be changed but the custody transfer parameters cannot be changed.	1433	Menü	R	
26.0.9	Codeword activated	CodewortTime	A	Time of the last input of the correct codeword	3198	Unix-time	R	
26.0.10	DSfGCode status	DSfGCodewortStatus	A	Status of the DSfG codeword. When one of the two codewords is entered correctly, then the display shows Enabled.	1434	Menü	R	
26.0.11	Screensaver Time	ScreensaverTime	N	After indicated time screensaver will be activated.	1632	Integer	W	min
26.0.12	Display contrast	DisplayContrast	P	Display of the display contrast value. The contrast can be set in the service dialog.	1631	Integer	R	
26.1.0	Screen	HEAD_26_1	A	-	1435	Titel	R	
26.1.1	displayed value 1	UserScreen_0	N	Definition of display value 1 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1436	Integer	W	Reg
26.1.2	displayed value 2	UserScreen_1	N	Definition of display value 2 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1437	Integer	W	Reg
26.1.3	displayed value 3	UserScreen_2	N	Definition of display value 3 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1438	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.1.4	displayed value 4	UserScreen_3	N	Definition of display value 4 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1439	Integer	W	Reg
26.1.5	displayed value 5	UserScreen_4	N	Definition of display value 5 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1440	Integer	W	Reg
26.1.6	displayed value 6	UserScreen_5	N	Definition of display value 6 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1441	Integer	W	Reg
26.1.7	displayed value 7	UserScreen_6	N	Definition of display value 7 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1442	Integer	W	Reg
26.1.8	displayed value 8	UserScreen_7	N	Definition of display value 8 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1443	Integer	W	Reg
26.1.9	displayed value 9	UserScreen_8	N	Definition of display value 9 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1444	Integer	W	Reg
26.1.10	displayed value 10	UserScreen_9	N	Definition of display value 10 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1445	Integer	W	Reg
26.1.11	displayed value 11	UserScreen_10	N	Definition of display value 11 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1446	Integer	W	Reg
26.1.12	displayed value 12	UserScreen_11	N	Definition of display value 12 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1447	Integer	W	Reg
26.1.13	displayed value 13	UserScreen_12	N	Definition of display value 13 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1448	Integer	W	Reg

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.1.14	displayed value 14	UserScreen_13	N	Definition of display value 14 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1449	Integer	W	Reg
26.1.15	displayed value 15	UserScreen_14	N	Definition of display value 15 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1450	Integer	W	Reg
26.1.16	displayed value 16	UserScreen_15	N	Definition of display value 16 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1451	Integer	W	Reg
26.1.17	displayed value 17	UserScreen_16	N	Definition of display value 17 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1452	Integer	W	Reg
26.1.18	displayed value 18	UserScreen_17	N	Definition of display value 18 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1453	Integer	W	Reg
26.1.19	displayed value 19	UserScreen_18	N	Definition of display value 19 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1454	Integer	W	Reg
26.1.20	displayed value 20	UserScreen_19	N	Definition of display value 20 on the 'User' screen. The selection is made by entering the Modbus address for the desired value.	1455	Integer	W	Reg
26.2.0	Printer	HEAD_26_2	A	-	1642	Titel	R	
26.2.1	Printer selection	PrinterType	N	Selection of the connected printer	1645	Menü	W	
26.2.2	Interface	PrinterInterface	A	Interface to which the printer must be connected. It is set to COM5.	1644	Menü	R	
26.2.3	Print cal.-gas	PrintCal	N	Specifying whether calibration results are printed	1859	Menü	W	
26.2.4	Print ref.-gas	PrintRef	N	Specifying whether the results of reference gas measurements are printed	1860	Menü	W	
26.2.5	Print skips	PrintSkip	N	Specifying whether the results of the skip measurements are printed	1862	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.2.6	Print meas.-gas	PrintMG	N	Specifying whether the results of the measuring gas measurements are printed	1858	Menü	W	
26.2.7	Interval	PrinterFrequencyMG	N	Interval of printing the results for measuring gas. (1 = every analysis is printed, 2 = every second analysis is printed, ...)	1647	Integer	W	
26.2.8	Print hour values	PrintHourValsMG	N	Specifying whether hourly values are printed	1861	Menü	W	
26.2.9	Print day values	PrintDayValsMG	N	Specifying whether daily values are printed	1906	Menü	W	
26.2.10	Print month values	PrintMonthValsMG	N	Specifying whether monthly values are printed	1907	Menü	W	
26.2.11	Shortform	PrintShortYN	N	Specifying whether the measuring gas logs are to be printed in short form	1650	Menü	W	
26.2.12	N2	PrintComp_0	A	Identifier for print reports.	1651	Menü	R	
26.2.13	Meth	PrintComp_1	A	Identifier for print reports.	1652	Menü	R	
26.2.14	CO2	PrintComp_2	A	Identifier for print reports.	1653	Menü	R	
26.2.15	Eth	PrintComp_3	A	Identifier for print reports.	1654	Menü	R	
26.2.16	Prop	PrintComp_4	A	Identifier for print reports.	1655	Menü	R	
26.2.17	iBut	PrintComp_5	A	Identifier for print reports.	1656	Menü	R	
26.2.18	nBut	PrintComp_6	A	Identifier for print reports.	1657	Menü	R	
26.2.19	neoP	PrintComp_7	A	Identifier for print reports.	1658	Menü	R	
26.2.20	iPen	PrintComp_8	A	Identifier for print reports.	1659	Menü	R	
26.2.21	nPen	PrintComp_9	A	Identifier for print reports.	1660	Menü	R	
26.2.22	C6+	PrintComp_10	A	Identifier for print reports.	1661	Menü	R	
26.2.23	nHex	PrintComp_11	A	Identifier for print reports.	1662	Menü	R	
26.2.24	nHep	PrintComp_12	A	Identifier for print reports.	1663	Menü	R	
26.2.25	nOct	PrintComp_13	A	Identifier for print reports.	1664	Menü	R	
26.2.26	nNon	PrintComp_14	A	Identifier for print reports.	1665	Menü	R	
26.2.27	O2	PrintComp_15	A	Identifier for print reports.	1666	Menü	R	
26.2.28	He	PrintComp_16	A	Identifier for print reports.	1667	Menü	R	
26.2.29	H	PrintComp_17	A	Identifier for print reports.	1668	Menü	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.2.30	Arg	PrintComp_18	A	Identifier for print reports.	1669	Menü	R	
26.2.31	Metha	PrintComp_19	A	Identifier for print reports.	1670	Menü	R	
26.2.32	Sulp	PrintComp_20	A	Identifier for print reports.	2096	Menü	R	
26.2.33	Hs	PrintVals_0	A	Identifier for print reports.	1671	Menü	R	
26.2.34	Hi	PrintVals_1	A	Identifier for print reports.	1672	Menü	R	
26.2.35	Rho	PrintVals_2	A	Identifier for print reports.	1673	Menü	R	
26.2.36	D	PrintVals_3	A	Identifier for print reports.	1674	Menü	R	
26.2.37	Ws	PrintVals_4	A	Identifier for print reports.	1675	Menü	R	
26.2.38	Wi	PrintVals_5	A	Identifier for print reports.	1676	Menü	R	
26.2.39	Sum.	PrintVals_6	A	Identifier for print reports.	1677	Menü	R	
26.2.40	Res	PrintVals_7	A	Identifier for print reports.	1678	Menü	R	
26.3.0	free nr. 16 bit	HEAD_26_3	A	-	2249	Titel	R	
26.3.1	free 16 bit nr. 1	UserNumber16_0	N	freely assignable 16 bit user number	2250	Integer	W	
26.3.2	free 16 bit nr. 2	UserNumber16_1	N	freely assignable 16 bit user number	2251	Integer	W	
26.3.3	free 16 bit nr. 3	UserNumber16_2	N	freely assignable 16 bit user number	2252	Integer	W	
26.3.4	free 16 bit nr. 4	UserNumber16_3	N	freely assignable 16 bit user number	2253	Integer	W	
26.3.5	free 16 bit nr. 5	UserNumber16_4	N	freely assignable 16 bit user number	2254	Integer	W	
26.3.6	free 16 bit nr. 6	UserNumber16_5	N	freely assignable 16 bit user number	2255	Integer	W	
26.3.7	free 16 bit nr. 7	UserNumber16_6	N	freely assignable 16 bit user number	2256	Integer	W	
26.3.8	free 16 bit nr. 8	UserNumber16_7	N	freely assignable 16 bit user number	2257	Integer	W	
26.3.9	free 16 bit nr. 9	UserNumber16_8	N	freely assignable 16 bit user number	2258	Integer	W	
26.3.10	free 16 bit nr. 10	UserNumber16_9	N	freely assignable 16 bit user number	2259	Integer	W	
26.4.0	free nr. 32 bit	HEAD_26_4	A	-	2260	Titel	R	
26.4.1	free 32 bit nr. 1	UserNumber32_0	N	freely assignable 32 bit user number	3360	Long	W	
26.4.2	free 32 bit nr. 2	UserNumber32_1	N	freely assignable 32 bit user number	3362	Long	W	
26.4.3	free 32 bit nr. 3	UserNumber32_2	N	freely assignable 32 bit user number	3364	Long	W	
26.4.4	free 32 bit nr. 4	UserNumber32_3	N	freely assignable 32 bit user number	3366	Long	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.4.5	free 32 bit nr. 5	UserNumber32_4	N	freely assignable 32 bit user number	3368	Long	W	
26.4.6	free 32 bit nr. 6	UserNumber32_5	N	freely assignable 32 bit user number	3370	Long	W	
26.4.7	free 32 bit nr. 7	UserNumber32_6	N	freely assignable 32 bit user number	3372	Long	W	
26.4.8	free 32 bit nr. 8	UserNumber32_7	N	freely assignable 32 bit user number	3374	Long	W	
26.4.9	free 32 bit nr. 9	UserNumber32_8	N	freely assignable 32 bit user number	3376	Long	W	
26.4.10	free 32 bit nr. 10	UserNumber32_9	N	freely assignable 32 bit user number	3378	Long	W	
26.5.0	free nr. float	HEAD_26_5	A	-	2261	Titel	R	
26.5.1	free float nr. 1	UserNumber-Float_0	N	freely assignable float user number	22120	Float	W	
26.5.2	free float nr. 2	UserNumber-Float_1	N	freely assignable float user number	22122	Float	W	
26.5.3	free float nr. 3	UserNumber-Float_2	N	freely assignable float user number	22124	Float	W	
26.5.4	free float nr. 4	UserNumber-Float_3	N	freely assignable float user number	22126	Float	W	
26.5.5	free float nr. 5	UserNumber-Float_4	N	freely assignable float user number	22128	Float	W	
26.5.6	free float nr. 6	UserNumber-Float_5	N	freely assignable float user number	22130	Float	W	
26.5.7	free float nr. 7	UserNumber-Float_6	N	freely assignable float user number	22132	Float	W	
26.5.8	free float nr. 8	UserNumber-Float_7	N	freely assignable float user number	22134	Float	W	
26.5.9	free float nr. 9	UserNumber-Float_8	N	freely assignable float user number	22136	Float	W	
26.5.10	free float nr. 10	UserNumber-Float_9	N	freely assignable float user number	22138	Float	W	
26.6.0	free text	HEAD_26_6	A	-	2262	Titel	R	
26.6.1	free text 1	UserText_0	N	freely assignable text field (20 characters) for numerical description	4540	Text	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
26.6.2	free text 2	UserText_1	N	freely assignable text field (20 characters) for numerical description	4560	Text	W	
26.6.3	free text 3	UserText_2	N	freely assignable text field (20 characters) for numerical description	4580	Text	W	
26.6.4	free text 4	UserText_3	N	freely assignable text field (20 characters) for numerical description	4600	Text	W	
26.6.5	free text 5	UserText_4	N	freely assignable text field (20 characters) for numerical description	4620	Text	W	
26.6.6	free text 6	UserText_5	N	freely assignable text field (20 characters) for numerical description	4640	Text	W	
26.6.7	free text 7	UserText_6	N	freely assignable text field (20 characters) for numerical description	4660	Text	W	
26.6.8	free text 8	UserText_7	N	freely assignable text field (20 characters) for numerical description	4680	Text	W	
26.6.9	free text 9	UserText_8	N	freely assignable text field (20 characters) for numerical description	4700	Text	W	
26.6.10	free text 10	UserText_9	N	freely assignable text field (20 characters) for numerical description	4720	Text	W	
27.0.0	Service	HEAD_27	A	-	1456	Titel	R	
27.1.0	Parameter	HEAD_27_1	A	-	1457	Titel	R	
27.1.1	User profil	UserLevel	E	With the user profile, parameters and display values can be hidden to improve readability. All values are visible in the DEVELOPER setting, while different values are hidden in the SERVICE or USER settings (initial state).	1458	Menü	W	
27.1.2	Service mode	ServiceMode	E	Test function for software test (only for RMG service)	1627	Menü	W	
27.2.0	Diagnostics	HEAD_27_2	A	-	1459	Titel	R	
27.2.1	Operating hours	OperatingHours	P	Operating hours	3346	Long	R	hours
27.2.2	CAN counter	CANCounter	A	Test function for software test (only for RMG service)	3036	Long	R	
27.2.3	Total memory	TotalMemAvail	A	-	3326	Long	R	Byte
27.2.4	Free memory	FreeMemAvail	A	Free physical memory in Byte.	3324	Long	R	Byte

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
27.2.5	min. free memory	FreeMemAvailMin	A	-	3396	Long	R	Byte
27.2.6	max. free memory	FreeMemAvailMax	A	-	3398	Long	R	Byte
27.2.7	Free sd-memory	FreeSDAvail	A	Free memeory on SD-Card in Byte.	22160	Float	R	MByte
27.2.8	Dil-Switch-1	Dil1	A	Status Dil-Switch-1: ON = MZ-calculation activated OFF = MZ-calculation deactivated	2054	Menü	R	
27.2.9	Dil-Switch-2	Dil2	A	Status Dil-Switch-2: ON = - (current no function) OFF = - (current no function)	2055	Menü	R	
27.2.10	Dil-Switch-3	Dil3	A	Status Dil-Schalter-3: ON = - (current no function) OFF = - (current no function)	2056	Menü	R	
27.2.11	Dil-Switch-4	Dil4	A	Status Dil-Switch-4: ON = After the device is started, the GC-application is started OFF = After the device is started, the Windows-Explorer is started	2057	Menü	R	
27.2.12	SVN revisions	SVNRevisionen	A	SVN revisions: GCApplication_WINCEShared	31080	Text	R	
27.2.13	RMG-Identifler-1	magicRMG1	A	Fixed value for device identification.	10	Integer	R	
27.2.14	RMG-Identifler-2	RofRMG	A	Fixed value for device identification.	12	Integer	R	
27.2.15	RMG-Identifler-3	MofRMG	A	Fixed value for device identification.	13	Integer	R	
27.2.16	RMG-Identifler-4	GofRMG	A	Fixed value for device identification.	14	Integer	R	
27.2.17	RMG-Identifler-5	BlankofRMG	A	Fixed value for device identification.	15	Integer	R	
27.2.18	RMG-Identifler-6	myRMGVtype	A	Fixed value for device identification.	16	Integer	R	
27.2.19	RMG-Identifler-7	magicRMG2	A	Fixed value for device identification.	18	Integer	R	
27.2.20	Modbus Debug QM 0	MB_VAL_0	A	Debugoutput modbus sequence-controlling	22140	Float	R	
27.2.21	Modbus Debug QM 1	MB_VAL_1	A	Debugoutput modbus sequence-controlling	22142	Float	R	
27.2.22	Modbus Debug QM 2	MB_VAL_2	A	Debugoutput modbus sequence-controlling	22144	Float	R	
27.2.23	Modbus Debug QM 3	MB_VAL_3	A	Debugoutput modbus sequence-controlling	22146	Float	R	
27.2.24	Modbus Debug QM 4	MB_VAL_4	A	Debugoutput modbus sequence-controlling	22148	Float	R	
27.2.25	Modbus Debug QM 5	MB_VAL_5	A	Debugoutput modbus sequence-controlling	22150	Float	R	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
27.2.26	Modbus Debug QM 6	MB_VAL_6	A	Debugoutput modbus sequence-controlling	22152	Float	R	
27.2.27	Modbus Debug QM 7	MB_VAL_7	A	Debugoutput modbus sequence-controlling	22154	Float	R	
27.2.28	Modbus Debug QM 8	MB_VAL_8	A	Debugoutput modbus sequence-controlling	22156	Float	R	
27.2.29	Modbus Debug QM 9	MB_VAL_9	A	Debugoutput modbus sequence-controlling	22158	Float	R	
27.3.0	Block CRCs	HEAD_27_3	A	-	1460	Titel	R	
27.3.1	Block-CRC 1	BlockCRC_0	A	Checksum over all metrological parameters under the menu item 1(RGC 7-C mode)	3258	Long	R	hex
27.3.2	Block-CRC 2	BlockCRC_1	A	Checksum over all metrological parameters under the menu item 2 (Current values)	3260	Long	R	hex
27.3.3	Block-CRC 3	BlockCRC_2	A	Checksum over all metrological parameters under the menu item 3 (Stream-1 values)	3262	Long	R	hex
27.3.4	Block-CRC 4	BlockCRC_3	A	Checksum over all metrological parameters under the menu item 4 (Stream-2 values)	3264	Long	R	hex
27.3.5	Block-CRC 5	BlockCRC_4	A	Checksum over all metrological parameters under the menu item 5 (Stream-3 values)	3266	Long	R	hex
27.3.6	Block-CRC 6	BlockCRC_5	A	Checksum over all metrological parameters under the menu item 6 (Stream-4 values)	3268	Long	R	hex
27.3.7	Block-CRC 7	BlockCRC_6	A	Checksum over all metrological parameters under the menu item 7 (Ref.-Gas values)	3270	Long	R	hex
27.3.8	Block-CRC 8	BlockCRC_7	A	Checksum over all metrological parameters under the menu item 8 (Cal.-Gas values)	3272	Long	R	hex
27.3.9	Block-CRC 9	BlockCRC_8	A	Checksum over all metrological parameters under the menu item 9 (Calibration results)	3274	Long	R	hex
27.3.10	Block-CRC 10	BlockCRC_9	A	Checksum over all metrological parameters under the menu item 10 (Specialities)	3276	Long	R	hex
27.3.11	Block-CRC 11	BlockCRC_10	A	Checksum over all metrological parameters under the menu item 11 (components parameters)	3278	Long	R	hex
27.3.12	Block-CRC 12	BlockCRC_11	A	Checksum over all metrological parameters under the menu item 12 (calibration parameters)	3280	Long	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
27.3.13	Block-CRC 13	BlockCRC_12	A	Checksum over all metrological parameters under the menu item 13 (calculation parameters)	3282	Long	R	hex
27.3.14	Block-CRC 14	BlockCRC_13	A	Checksum over all metrological parameters under the menu item 14 (Gas analyzer unit)	3284	Long	R	hex
27.3.15	Block-CRC 15	BlockCRC_14	A	Checksum over all metrological parameters under the menu item 15 (In- and Outputs)	3286	Long	R	hex
27.3.16	Block-CRC 16	BlockCRC_15	A	Checksum over all metrological parameters under the menu item 16 (Serial ports)	3288	Long	R	hex
27.3.17	Block-CRC 17	BlockCRC_16	A	Checksum over all metrological parameters under the menu item 17 (Network)	3290	Long	R	hex
27.3.18	Block-CRC 18	BlockCRC_17	A	Checksum over all metrological parameters under the menu item 18 (DSfG)	3292	Long	R	hex
27.3.19	Block-CRC 19	BlockCRC_18	A	Checksum over all metrological parameters under the menu item 19 (External I/O System)	3294	Long	R	hex
27.3.20	Block-CRC 20	BlockCRC_19	A	Checksum over all metrological parameters under the menu item 20 (Fault and Status)	3296	Long	R	hex
27.3.21	Block-CRC 21	BlockCRC_20	A	Checksum over all metrological parameters under the menu item 21 (Date, Time)	3298	Long	R	hex
27.3.22	Block-CRC 22	BlockCRC_21	A	Checksum over all metrological parameters under the menu item 22 (Archives, Storage)	3300	Long	R	hex
27.3.23	Block-CRC 23	BlockCRC_22	A	Checksum over all metrological parameters under the menu item 23 (Hourly values)	3302	Long	R	hex
27.3.24	Block-CRC 24	BlockCRC_23	A	Checksum over all metrological parameters under the menu item 24 (Daily values)	3304	Long	R	hex
27.3.25	Block-CRC 25	BlockCRC_24	A	Checksum over all metrological parameters under the menu item 25 (Monthly values)	3306	Long	R	hex
27.3.26	Block-CRC 26	BlockCRC_25	A	Checksum over all metrological parameters under the menu item 26 (User)	3308	Long	R	hex
27.3.27	Block-CRC 27	BlockCRC_26	A	Checksum over all metrological parameters under the menu item 27 (Service)	3310	Long	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
27.3.28	Block-CRC 28	BlockCRC_27	A	Checksum over all metrological parameters under the menu item 28 (Nameplate)	3312	Long	R	hex
27.3.29	Block-CRC 29	BlockCRC_28	A	Checksum over all metrological parameters under the menu item 29 (----)	3314	Long	R	hex
28.0.0	Nameplate	HEAD_28	A	-	1461	Titel	R	
28.0.1	Software version	SoftwareVersion	A	Installed software version	5700	Text	R	
28.0.2	Software CRC-32	SoftwareCRC32	A	Checksum for installed software	3214	Long	R	hex
28.0.3	Matrix version	MatrixVersion	A	Version of the parameter/measured value table. This applies to the visible section on the Details screen.	200	Integer	R	
28.0.4	Kernel	KernelVersion	A	ID for kernel	5720	Text	R	
28.0.5	Kernel built	KernelVersionDate	A	Built date of Kernel	30860	Text	R	
28.0.6	Kernel CRC-32	KernelCRC	A	CRC of the kernel	3250	Long	R	hex
28.0.7	Kernel BL	KernelBLVersion	A	Kernel Bootloader version	30880	Text	R	
28.0.8	BIOS Version	BiosVersion	A	ID for BIOS	5740	Text	R	
28.0.9	Bios BL Version	BootloaderVer	A	ID for bootloader	5760	Text	R	
28.0.10	Analyzer SW version	QmicroFirmware	A	Firmware version of the analyzer	5800	Text	R	
28.0.11	Analyzer SW MD5 MSB	DynSFirmwareMD5MSB	A	Analyzer unit SW MD5 MSB	40012	?	R	hex
28.0.12	Analyzer SW MD5 LSB	DynSFirmwareMD5LSB	A	Analyzer unit SW MD5 LSB	40016	?	R	hex
28.0.13	Analyzer OS MD5 MSB	DynSKernelMD5MSB	A	Analyzer unit OS MD5 MSB	40020	?	R	hex
28.0.14	Analyzer OS MD5 LSB	DynSKernelMD5LSB	A	Analyzer unit OS MD5 LSB	40024	?	R	hex
28.0.15	Analyzer HW MD5 MSB	DynSFPGAMD5MSB	A	Analyzer unit HW MD5 MSB	40028	?	R	hex
28.0.16	Analyzer HW MD5 LSB	DynSFPGAMD5LSB	A	Analyzer unit HW MD5 LSB	40032	?	R	hex
28.0.17	GcStartup CRC-32	GcStartupCRC	A	CRC of the GcStartup.cmd	3252	Long	R	hex
28.0.18	Dio CRC-32	DioCRC	A	CRC of the Dio.exe.	3254	Long	R	hex

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
28.0.19	Device type	DeviceType	E	Device type of analytical computer (always RGC7)	5780	Text	W	
28.0.20	Device no	DeviceNo	E	Serial Number	3038	Long	W	
28.0.21	Device variant	GCVariante	A	GC variant: - RGC7-C	2078	Menü	R	
28.0.22	Gas analyzer type	GasAnalyzerTyp	E	Selection of the gas chromatograph type (natural gas, natural gas+hydrogen, etc.) The 'Meas. Elem. Type' parameters is used for selection of the custody transfer values '\$'. RGC 704-M RGC 711-M RGC 713-M RGC 714-M Nat.gas+ Nat.gas+ Nat.gas+ Nat.gas+ Superior - calorific value X X X X - Standard density X X X X - Nitrogen X X X X - Methane X X X X - Carbon dioxide X X X X - Ethane X X X X - Propane X X X X - iso-Butane X X X X - n-Butane X X X X - neo-Pentane X x x X - iso-Pentane X x X X - n-Pentane X x X X - C6+ X X X X - n-Hexane - - - - - n-Heptane - - - - - n-Octane - - - - - n-Nonane - - - - - Oxygen X X X X - Helium X - - - - Hydrogen 20% - 10% 20% - Argon - - - -	1625	Menü	W	

Table 12: Modbus parameter list

Coordinate	Text English	Macro name	Protection	Description	Modbus register	Type	R/W	Unit
28.0.23	Approved for	ApprovedFor	E	Permitted operating mode: gas quality measuring device. The 'Meas. Elem. Type' and 'Permitted for' parameters are used for selection of the custody transfer values 'S'.	1626	Menü	W	
28.0.24	Gas analyzer no	GasAnalyzerNo	E	Input of the serial number of the measuring element. This input value must match the read out serial number of the measuring element. If these values do not match, a fault is displayed and no further measurement takes place. This monitoring can be disabled by entering the serial number 0.	40036	?	W	
28.0.25	Manufacturer	Manufacturer	E	Manufacturer	1465	Menü	W	
28.0.26	year of manufacture	YearOfManufacture	E	Year of construction	1466	Integer	W	
28.0.27	OBIS-ID	ObisId	P	Composition of Obis-Id: 7061 yyxx xxxx xxxx Device No. Year of manufacture 061=Manufacturer RMG 7=Field gas	31180	Text	R	
28.0.28	Location	Messort	B	Name of measurement installation	6520	Text	W	
28.0.29	Commissioning	Inbetriebnahme	B	Time of startup. Part of the general data element list.	3152	Unix-time	W	
28.0.30	Last calibration	LetzteEichung	E	Time of last calibration. Part of the general data element list.	3348	Unix-time	W	
29.0.0	----	HEAD_29	I	-	1462	Titel	-	
29.0.1	Wieser WEAQA	UserDefined_13	I	Dummy value for DSfG (temporary for developers)		Float	-	
29.0.2	Wieser WEAPA	UserDefined_14	I	Dummy value for DSfG (temporary for developers)		Float	-	
29.0.3	Wieser WEAQA	UserDefined_15	I	Dummy value for DSfG (temporary for developers)		Float	-	

Table 12: Modbus parameter list



ONE STEP AHEAD

Technical changes reserved!

RMG Messtechnik GmbH

Otto-Hahn-Straße 5
35510 Butzbach
Deutschland

Tel: +49 (0) 6033 897 – 0
Fax: +49 (0) 6033 897 – 130
Mail: info@rmg.com

www.rmg.com

For More Information

To learn more about products and solutions from RMG, visit
www.rmg.com or contact your account manager.