RMG ONE STEP AHEAD

Newsletter Spring 2025

RSM 200 – State-of-the-Art Technology

Volume Measurement in Natural Gas Distribution

In most cases, mechanical meters are still predominantly used in the distribution network and lowpressure network. With the technological development in many areas and the advancing digitalization, the requirements for gas meters in this area are also being redefined in many places.

The availability and monitoring of measurement technology and prompt information about any faults are essential. The archiving of data in the meter is now also a key requirement for modern metering systems, in order to be able to retrieve the relevant data, at least retrospectively, or display it directly on site on the meter, even if communication fails. The RSM 200 ultrasonic gas meter is primarily used where gas is distributed and fed into downstream low-pressure networks via corresponding measuring and control sections. In these gas pressure regulating (GPR) systems, the meter supplies custody transfer metered values which are used for billing purposes. However, the RSM 200 is also used in industrial applications where natural gas is used to control a controlled and precise heat development, particularly in the production of bricks, steel, porcelain and glass.

The ultrasonic technology already established in large-scale gas metering and used for many years in the long-distance pipeline network is now also being used in downstream networks. The advantages are obvious: no moving parts, making it insensitive to contamination, pulsation or overload. Always up-to-date flow values, which can be transmitted via digital interfaces. The functional principle consists of a 2-path ultrasonic technology with reflection paths and a double flow straightener, which guarantees a laminar flow even with high pre-interference.

The RSM 200 can be designed in different versions for different applications and adapted to individual requirements. The RSM 200, including integrated condition quantity conversion in accordance with EN12405, is a complete measuring Point in a compact design. A pressure and temperature sensor are already integrated for measuring the quantity of fuel gases of the first and second gas family in accordance with EN 437.

Discover the future of ultrasonic gas meters today – visit www.rmg.com for more details!

Optimize Gas Quality Measurement with RGQ 3

The Smart, Mobile Solution for Precise Gas Analysis

RMG Messtechnik GmbH introduces the RGQ 3, a state-of-the-art correlative gas quality measuring device designed for mobile and handheld applications. Whether for commissioning, tuning, regular maintenance, emission reduction, or periodic measurement, the RGQ 3 is the ideal solution for professionals in the energy and gas sector.
With its compact and robust design, this cutting-edge device ensures fast, reliable, and precise gas quality measurement in a variety of applications. No external power supply needed – the RGQ 3 operates off-grid for up to 24 hours, making it perfect for field use.

Key Benefits at a Glance
- Easy & Secure Handling
- Quick shut-off couplings enable fast connections to any gas source
- Built-in pressure regulator, flush line and flow limiter allow fast setup

Independent & Efficient
- Compact & lightweight design, easy to transport and operate
- Battery-powered with USB charging for flexible use

Smart Connectivity & Cloud Integration
- Bluetooth for real-time data transfer to RMG app and cloud
- Data export in Excel and CSV format for easy documentation
- Graphical visualization & reporting for clear data interpretation
- Remote monitoring of multiple measurement locations

Comprehensive Measurement Capabilities
- Wobbe Index (WIS & WIi)
- Calorific value (HS & HI)
- Methane number (MN)
- H_2 and CO_2 volume fractions (optional)
- Density, relative density & compressibility (Z factor)
- Stoichiometric air-fuel ratio (s-AFR)

Reliable & Maintenance-Free
- No moving parts
- Ensuring long-term stability and low maintenance costs
- Less than 1% measurement uncertainty for high accuracy

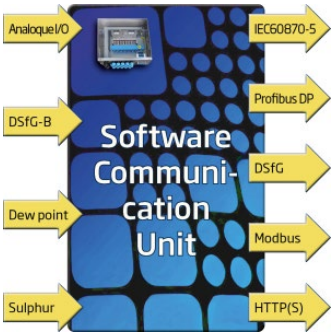
Fast & Consistent Data – Every Second
- Thermal conductivity & CO_2 readings updated every second
- Viscosity data available every 4.5 seconds
- Built-in inlet pressure control for stable and precise measurements

Why Choose the RGQ 3?
With its intelligent features, long battery life, and smart connectivity, the RGQ 3 is a game-changer in gas quality measurement. Whether in industrial settings, gas distribution networks, or field applications, the RGQ 3 ensures seamless, real-time monitoring for enhanced efficiency and reliability.
Discover the future of gas quality measurement today – visit www.rmg.com for more details!

RMG's Soft-CU: Secure Data Communication

Efficient and Flexible

RMG's Software Communication Unit leverages the proven mechanisms of the gas metering monitor to efficiently receive and transmit data using various protocols. Internal parameterization allows for calculations and conversions to other units, ensuring precise data handling.



RMG’s Soft-CU systems offer the freedom to optimally adjust your measuring system to meet your specific needs. The software-based architecture ensures flexible scalability and compatibility with hardware systems of different sizes, providing maximum flexibility and security.

From small setups to complex applications, RMG’s Soft-CU systems provide custom adjustments to suit your requirements. Seamless scalability allows for increased power as needed, while redundant system structures ensure maximum safeguarding against failure, making the system scalable, redundant, and efficient.

Kenny Ho's Special Contribution at the Thi Vai LNG Terminal, Vietnam

Success Story

Kenny Ho, a dedicated RMG employee in Southeast Asia, played a key role at the Thi Vai LNG Terminal in Vietnam. His expertise and commitment were crucial to the stable performance of the application under challenging conditions. HTH Technology, an RMG distributor in Vietnam, supplied RMG products to TTCL Vietnam for a turnkey project for the PVGAS Thi Vai LNG Pressure Reduction Station. PVGAS operates the first LNG terminal in Vietnam with a capacity of 1 MMTPA. The facility features a pressure reduction station for distributing BOG LNG to low-pressure networks where a metering station is required.

HTH Technology will supply the complete metering systems for the PVGAS Thi Vai Pressure Reduction Station and is responsible for the design, installation, and commissioning of two sets 6 path ultrasonic meter USM GT400 8”, one set gas chromatograph system PGC 9301 and two sets flow computer ERZ 2104 NG. Originally, a turbine or orifice meter was required, but RMG offered a cost-effective solution with an ultrasonic gas meter. The meters must handle various gas compositions as well as flow rates and reduce pressure from 50–70 bar to 24 bar. RMG products are known for their high quality, precision, exceptional noise immunity, and excellent performance at low flow rates. Implementing RMG services has reduced operating costs.

This is just one of RMG's many success stories, and we owe this one in particular to our capable and ambitious colleague in Southeast Asia. Thank you, Kenny Ho!

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