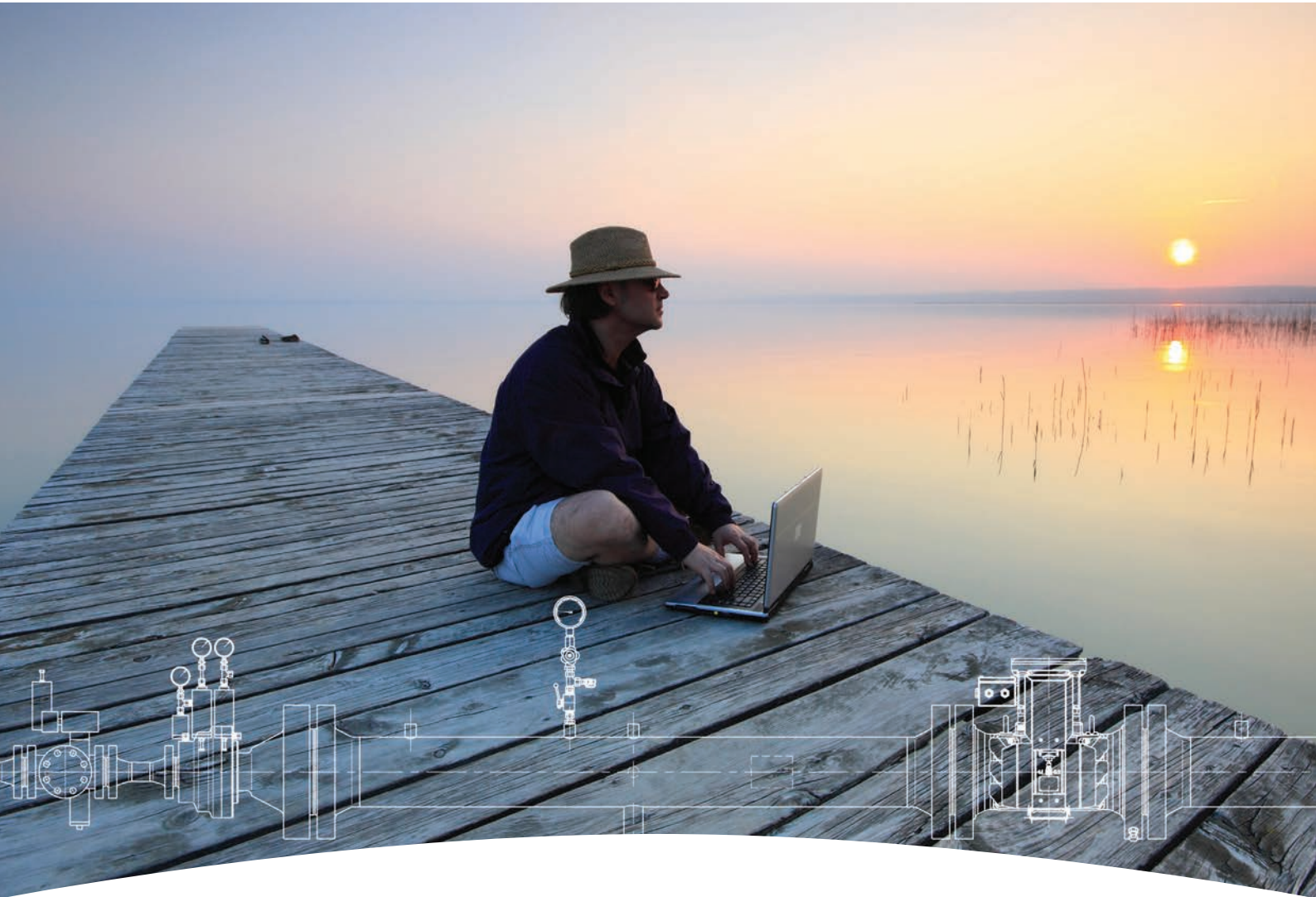


# RMG Gas Metering Management



At the forefront of natural gas measurement and control, RMG offers unsurpassed capabilities for gas metering management. Our advanced gas metering software and service package provides operators with a solution for station monitoring and management tailored to their specific needs. It offers seamless integration of measurement devices independent from the manufacturer, covered by one single software package, easy to access local or remotely.

**Proven Performance. Robust Functionality.**



## Rely on RMG

- Over 150 years of combined experience in the natural gas industry
- Worldwide solution leader in control, measurement and analysis technology
- Products and solutions for natural gas transportation, storage, distribution and consumption
- Local support with global expertise
- Single source provider with a wide portfolio



Companies involved in natural gas transportation, distribution and storage have critical operational demands. Their sites typically employ a variety of software for terminal management. However, they may lack adequate monitoring and control capabilities for gas pipeline metering stations, limiting their operations. The RMG Gas Metering Management software package offers seamless integration of measurement devices independent from the manufacturer and easy to access local or remotely. On-site visits are reduced to a minimum.

# Efficiency Matters

The RMG Gas Metering Management solution provides the tools needed to optimize today's gas industry operations. Featuring a choice of flexible modules for station metering device monitoring; data collection and evaluation; and terminal configuration, parameterisation and maintenance, it enables natural gas and measuring station personnel to monitor operations on-site or remotely, provide data analysis and facilitate remote maintenance. The solution reduces operational costs and improves the accuracy and reliability of measurements.

## Freedom of Choice

The RMG Gas Metering Management system gives natural gas facilities the freedom to choose the best combination of measuring devices to meet their unique needs, regardless of the manufacturer. The system works seamlessly with both RMG and third-party measuring devices, so users can create highly tailored solutions, but still monitor everything through one central, reliable system.

## Single Software Solution

RMG's gas metering management solution accurately determines the technical condition of all gas measurement devices in metering stations using a single software package. As such, it eliminates the overhead involved in supporting multiple proprietary monitoring and control applications.

## Secure Remote Access

The ability to remotely access measuring devices of different manufacturers with the RMG system simplifies planning and organisation, and reduces costs as it keeps station visits to a minimum.

This is a key advantage of RMG technology versus other systems currently on the market.

## Greater Ease of Use

RMG's solution employs a framework of integrated software modules that can be installed without the need for customized code changes and are easily configured. Integrated engineering tool (tool box of metering devices, devices can be integrated/configured easily, similar to bibliothek) Dynamic system displays provide detailed schematic diagrams of the monitored stations, and allow technical and accounting personnel to access and act upon current flow, pressure and temperature data and alarms in real-time.

The use of a single software program for all measuring devices greatly simplifies planning and organisation. Manufacturer independence also reduces costs for proprietary software and software services.



## Typical applications include:

- Local Station Operation
- Remote Station Monitoring
- Terminal Operations Management
- Gas Metering Monitoring
- Gas Metering Data Analysis

The displays also enable technical and accounting personnel to access and act upon current flow, pressure and temperature data and alarms in real-time.

# Meeting Your Requirements



## Comprehensive Features

The RMG Gas Metering Management system was designed to provide a comprehensive solution for monitoring and managing gas operations. It has features enabling schematic representation of the station; analysis of measuring and energy data; and simple configuration, parameterisation and maintenance of measuring devices from RMG and third-party suppliers.

## Dynamic Displays

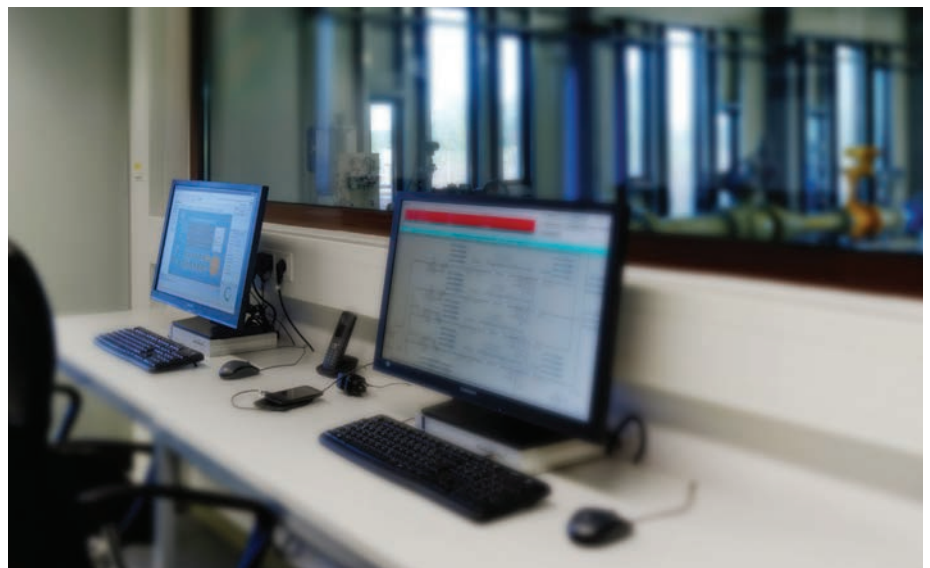
Thanks to intuitive system displays, operators can make use of detailed schematic diagrams of the monitored station. The displays also enable technical and accounting personnel to access and act upon current flow, pressure and temperature data and alarms in real-time.

## Robust Monitoring

Gas industry organisations can employ RMG's robust terminal monitoring and control system for fast error detection and fault diagnosis. Moreover, operations personnel have access to the system without limitations on location. Better organisation and timesaving due to remote diagnosis make the workforce more productive.

## Open Communications

The RMG Gas Metering Management system was developed to utilise open, industry-standard communication protocols such as Modbus and OPC. This enables users to connect a wide range of devices and systems to their station monitoring and control network.



Gas industry organisations can employ RMG's robust terminal monitoring and control system for fast error detection and fault diagnosis.

# Flexible Functionality



- Interfaces to databases, spreadsheets and word processing

## Data processing

- Data check
- Generation of secondary data
- Calculation of primary data
- Representation of calculations
- Customer-specific transmissions
- SQL database
- Records by day, month, year and comparative reports

## Access & rights

- Web access
- Various formats/protocols
- Customer-specific representation
- Customer-specific transmission

## Gas Metering Terminal

The Gas Metering Terminal module helps identify and fix dysfunctional measurement devices by using as well proprietary as non-proprietary software platform for remote maintenance and configuration.

## Device display view

- View of the device display or virtual display representation
- Individual device representation or system bus representation

## Control

- Switch control
- Local or remote access to the device
- Status information

## Special functions

- Saving of the process, read-out archives
- Analysis of statuses and errors
- Reparameterisation of devices
- Device-specific functions

## Gas Metering Monitor

The Gas Metering Monitor module provides an immediate station health overview. In addition to the online data the gas metering monitor can deliver the data in as hourly, daily and monthly sums/averages based on the archives data of the metering devices. The complete device documentation is archived behind the monitor surface. Device documentation can be popped up by one touch.

## Process variables

- Flow
- Pressure
- Temperature
- Gas composition data

## Device status

- Schematic diagram representation
- Display of current values
- Current device status
- Documentation for the devices

## Alerting

- Logging and reports
- Alarms
- Device status (e.g., measurement devices, gas chromatographs, valves, etc.)

## Trends

- Graphs
- Tables

## Gas Metering Analysis

The Gas Metering Analysis module is intended to supply measuring and energy data. The module utilises local communication to offer a wide range of views, reports and trends on energy consumption data.

## Data retrieval from RMG and third-party devices

- Volume data
- Energy data
- Status data
- Gas composition data

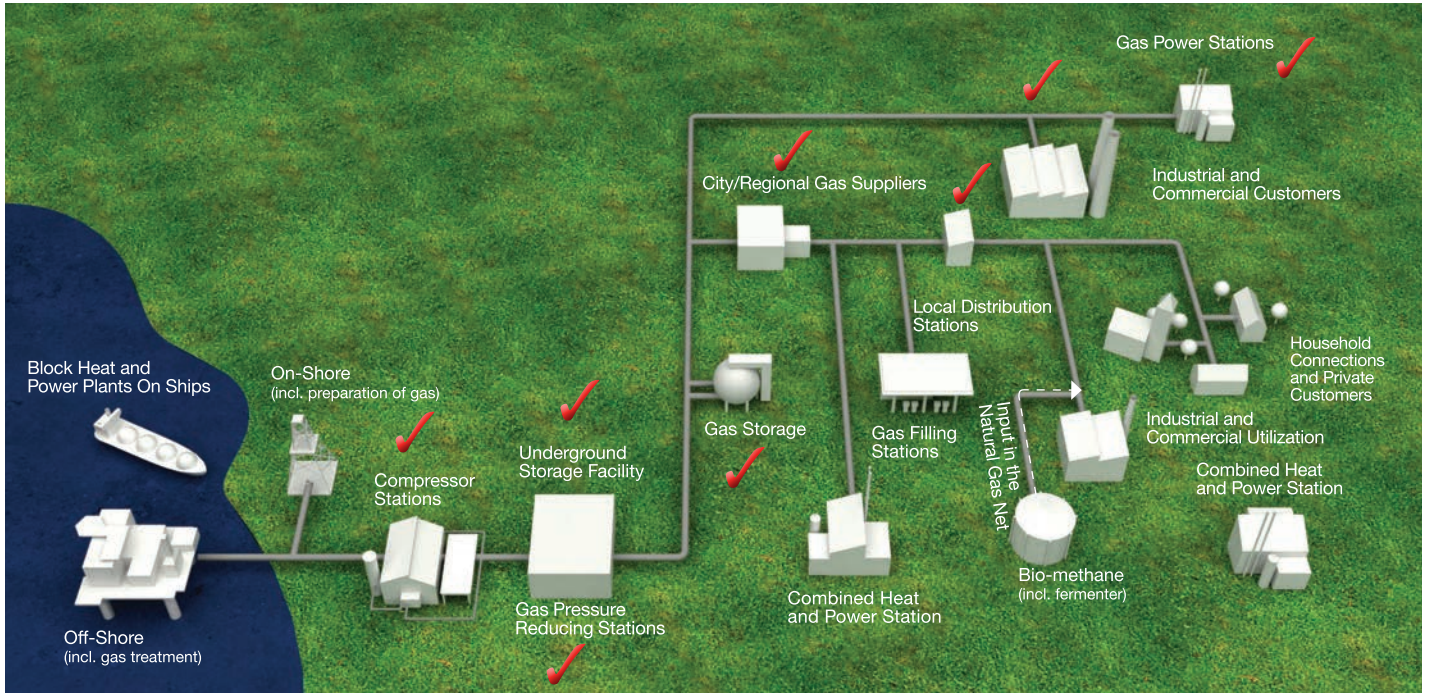
## Data visualisation

- Tabular and graphic representation of measured values
- Display of hourly and daily values

## Data calculation

- Intelligent planning tool integrated in the system
- Various communication channels (e.g., landline, SMS, GSM, GPRS/UMTS-LTE, network/Ethernet-DSL and TCP/IP)

# Gas Metering Management in the Gas Value Chain



Maintaining, controlling and planning technical and data integrity within the gas value chain, wall-to-wall, worldwide.

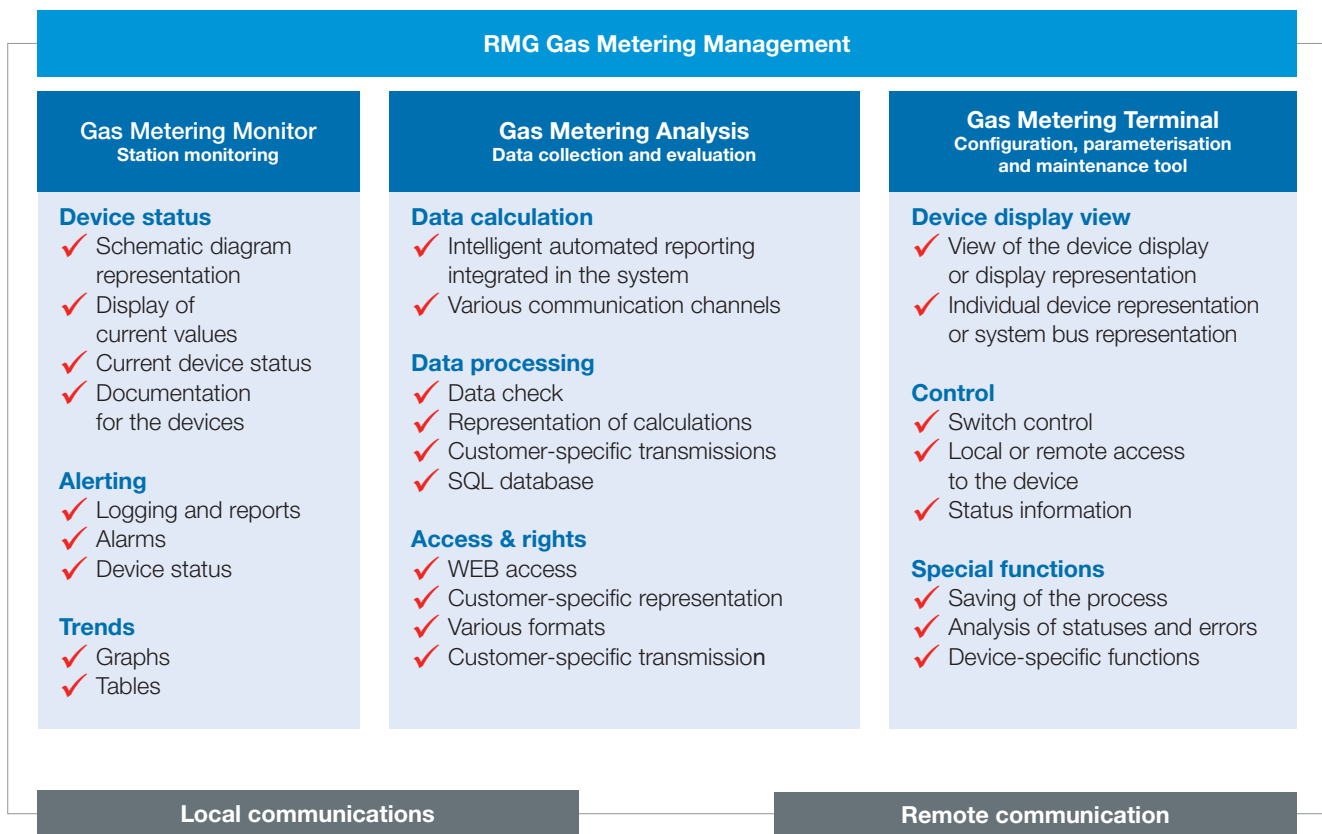


The RMG Gas Metering Management Solution includes the tools needed to optimize the procedures in today's gas industry. It consists of flexible modules for monitoring station gas metering devices, data collection and analysis as well as the configuration, parameterisation and maintenance of the instrumentation.

# Key features

- Single, integrated software package
- Framework of dedicated modules
- Gas metering management monitor, analysis and terminal modules
- Dynamic system displays
- Unique device collection library
- Manufacturer independence
- Highly tailored solutions

## The RMG Gas Metering Management comprises three modules:



*Technical data is subject to change without notice.*

**For More Information**

To learn more about products and solutions from RMG, visit [www.rmg.com](http://www.rmg.com) or contact your account manager.

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