

SOFTWARE AND SERVICE PACKAGE RMG GAS METERING MANAGEMENT

The software suite to ensure trouble-free metering operations for network and metering point operators. Simple graphical monitoring of live measurement and status data and specific documentation with remote diagnosis, remote parameterization and reporting of events and measurement data.



BENEFITS AND MODULES

The “RMG Gas Metering Management” software and service package provides operators and measuring stations with a means of tailored station monitoring and simple management. Local and remote operation. Manufacturer-independent.



The software and service package for measuring stations

- Simple to use and full data and costs transparency
- Remote access to the devices keeps station visits to a minimum
- Manufacturer independence reduces costs for software and service
- One software program for all measuring devices simplifies planning and organization
- Scalability enables optimal adaptation to individual requirements
- Various interfaces ensure optimal data transfer

The RMG Gas Metering Management comprises three modules:



Gas Metering Monitor

- for the schematic representation of the station
 - Device status
 - Alerting
 - Trends



Gas Metering Analysis

- for the supply of measuring and energy data
 - Data billing
 - Data processing
 - Access & Reports



Gas Metering Terminal

- for the simple configuration, parameterization and maintenance of measuring devices from RMG and third-party suppliers
 - Remote Display View
 - Control
 - Special functions

GAS METERING TERMINAL



Gas Metering Terminal - GM-T

Fast remote diagnosis and remote parameterization is available with the Gas Metering Terminal software.

In addition, current status information, measured values or configuration data from many different measuring devices can be displayed remotely and changed depending on the security level. In addition, functions for reading out load profile and event archives are available.

Despite the variety of functions, the GM-T can be operated intuitively. The software is therefore an indispensable aid for operating the systems cost-effectively - without long journeys to the measuring stations - and quickly using remote diagnosis.

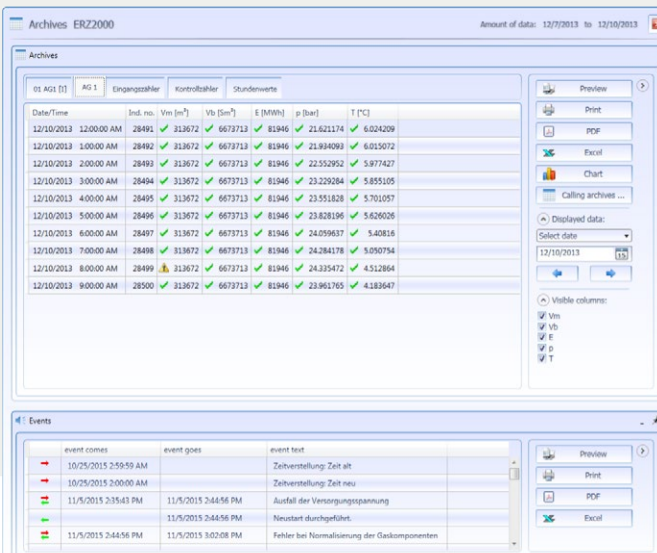
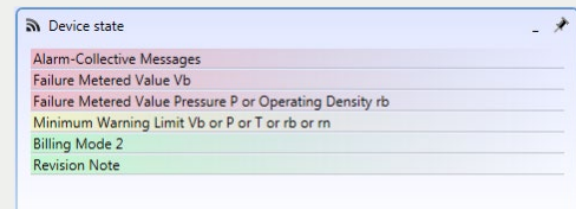


Online Presentation

The representation analogous to the target device including operation of the switches allows the device to be operated „as on site“. At the same time, important parameters are displayed as a list.

Status and Error Analysis

The current status of the device is displayed as plain text. GM-T goes one step further and displays the associated parameters dynamically in the event of an error.



Archives, Messages, Parameters

The functionality of GM-T is completed by the retrieval and visualization of archives, messages and parameters - only one push of a switch away. In addition to reading out, it is also possible to adjust parameters.

GAS METERING ANALYSIS



Gas Metering Analysis - GM-A

The billing, output and transfer of data is becoming increasingly important.

Various predefined report templates, script-based exporting and automation make the software the ideal output interface for your data.

With the Gas Metering Analysis software, data can be combined into almost any report. This includes, for example, any combination and summation, as well as the inclusion of asynchronous fault counters or the calculation of quantities from counter readings.

Simple Configuration

The configuration tool can be used to compose and offset channels as required and add additional features such as statistics or appropriate messages.

Definition export channels:									
No	Type	Station name / Identifier	Entity name	Archive name	Channel name	SU 13	SU 14	SU 15	SU 16
1	ZS	USM	Reg [0]	01 Counter-Values FD 1	Vm [m3]	*			
2	ZS	USM1	Reg [0]	01 Counter-Values FD 1	Vm [m3]	*			
3	ZS	USM2	Reg [0]	01 Counter-Values FD 1	Vm [m3]	*			
4	ZS	USM	Reg [0]	01 Counter-Values FD 1	Vb [Sm3]	*			
5	ZS	USM1	Reg [0]	01 Counter-Values FD 1	Vb [Sm3]	*			
6	ZS	USM2	Reg [0]	01 Counter-Values FD 1	Vb [Sm3]	*			
7	SZ	USM	Reg [0]	02 Dist. Values FD 1	dist. Vm [m3]				add to total (+)
8	SZ	USM1	Reg [0]	02 Dist. Values FD 1	dist. Vm [m3]				subtract from total (-)
9	SZ	USM2	Reg [0]	02 Dist. Values FD 1	dist. Vm [m3]				no element of total
10	ZS	USM	Reg [0]	01 Counter-Values FD 1	E [MWh]				Modify channel
									Delete channel

Tabular report										
Date/Time	Consumption			Totalizer			Analog values			
	Vm [m3]	Vb [Sm3]	dist. Vm [m3] E [MWh]	Vm [m3]	Vb [Sm3]	dist. Vm [m3] E [MWh]	p [bar]	T [°C]		
18.04.2013 06:00	185	14985	0	160340	65743	5260832	603	57530772	80.47	12.38
18.04.2013 07:00	173	13667	0	154143	61916	5274299	603	57602555	81.58	13.01
18.04.2013 08:00	178	14062	0	149557	66094	5288365	603	57994312	78.36	11.74
18.04.2013 09:00	152	12008	0	137408	66246	5300389	603	58111720	81.55	12.86
18.04.2013 10:00	167	13026	0	140296	66413	5313395	603	58200016	78.07	14.75
18.04.2013 11:00	139	11239	0	133599	66552	5324404	603	58403615	78.12	13.88
18.04.2013 12:00	155	12090	0	132246	66707	5336744	603	58335861	81.89	13.05
18.04.2013 13:00	112	9184	0	97350	66819	5345703	603	58632211	82.64	15.22
18.04.2013 14:00	152	11856	0	133165	66971	5357984	603	58766576	76.69	12.48
18.04.2013 15:00	179	14520	0	152186	67130	5372204	603	58918762	78.55	15.32
18.04.2013 16:00	130	10460	0	108490	67280	5382504	603	59027280	79.49	11.44
18.04.2013 17:00	114	9006	0	96957	67394	5393202	603	59124217	78.35	11.41
18.04.2013 18:00	196	15288	0	175616	67590	5406798	603	59299813	82.68	11.56
18.04.2013 19:00	189	14911	0	163806	67779	5411729	603	59404639	78.07	11.22
18.04.2013 20:00	179	14120	0	149895	67958	5416609	603	59611534	82.91	15.6
18.04.2013 21:00	118	9200	0	105792	68074	5443329	603	59719326	82.86	14.15
18.04.2013 22:00	195	15795	13	168480	68269	5451124	616	59807906	82.11	11.18
19.04.2013 00:00	176	14432	0	151114	68445	5475556	616	60038920	78.09	12.19
19.04.2013 01:00	142	11502	0	131123	68587	5487058	616	60170043	82.43	12.17
19.04.2013 02:00	100	8100	0	84240	68687	5495158	616	60254283	79.03	11.51
19.04.2013 03:00	141	10998	0	124489	68828	5506164	616	60378772	82.11	14.69
19.04.2013 04:00	118	9440	0	101244	68946	5515399	616	60480016	79.21	13.5
19.04.2013 05:00	125	10000	0	109612	69071	5525206	616	60589628	81.54	14.01
19.04.2013 06:00	109	8918	10	91810	69160	5534514	626	60687793	82.78	15.56
Consumption/Average	3622	288887	23	3157021	3622	288887	23	3157021	80.6712	13.294
Minimum	100	8100	0	84240	100	8100	0	84240	78.07	11.22

Script Based Exporting

In addition to output as a report, GM-A supports common ASCII export formats such as CSV, but also defined interfaces such as MSCONS. The export format can be adapted through the stored script language.

Export settings:

Data output: Monthly protocol

Start hour of gas day: 6

Selection:

Hourly values of the current month

Hourly values of the previous month

Daily values of the current month

Daily values of the previous month

Automation

The output of the data - whether as a report or as an export - can be automated. In addition to the point in time, the automation also includes the area of the data to be exported (e.g. the current month, extended day by day) and the storage format, possibly printer, directory or even FTP.

GAS METERING MONITOR

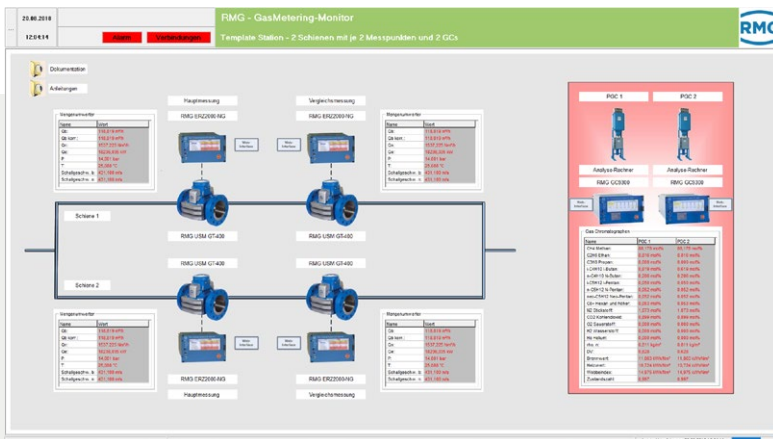


Gas Metering Monitor - GM-M

The task of the Gas Metering Monitor software is to encapsulate the complex interrelationships in a system and to present them clearly.

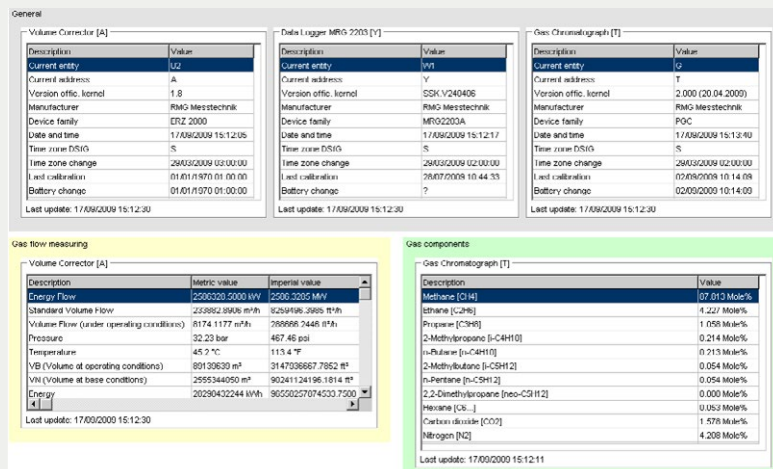
Data is read out, evaluated and graphically processed via various possible input interfaces.

The graphical output is freely scalable. Reading out messages and archives, historizing instantaneous values and various output interfaces are just some of the functions that make the software the ideal visualization for complex measurement situations.



Evaluation of Real-Time Data

The data can be arranged in any way on graphical interfaces and represented, for example, as individual values, tables, status information with traffic light function, etc. Complex calculations can be carried out using the integrated calculator. The most important parameters can be monitored via performance monitoring and an alarm can be issued if they are exceeded.



Data Hub apart from the Presentation

The various input and output interfaces can also be used without a graphical representation to centrally read out and save data and make them available to other systems. Common use cases are forwarding of DSfG data via Modbus or IEC60870-5 (Telemetry Data Manager - TDM).

RMG GAS METERING MANAGEMENT AT A GLANCE

