

## Memograph M RSG45 data manager

Advanced data and energy manager with up to 20 analog/HART® inputs and 14 digital inputs



More information and current pricing:

[www.endress.com/RSG45](http://www.endress.com/RSG45)

### Benefits:

- High degree of data security: tamper-proof data storage and personalized access authorization with electronic signature (FDA 21 CFR 11)
- HART input card: HART sensors directly connected provide accurate process values for calculation and logging
- **HART** gateway: time-saving direct access to HART sensors in the field with FieldCare using Memograph M without interrupting the measuring loop
- Stainless steel front with touch operation: trouble-free operation in demanding environments such as hygienic or hazardous areas. DIN rail version: compact device with small dimensions for cabinet mounting or remote field applications.
- System capability: supports common fieldbuses (Modbus, Profibus DP, PROFINET, EtherNet/IP) for fast integration into diverse systems
- Integrated Web server: remote access to device operation and visualization for lower maintenance costs
- WebDAV: files saved on SD card transmitted directly to a PC via HTTP without any additional software.

### Specs at a glance

- **Input** 0...20 universal HART 6...14 digital
- **Output** 2 analog
- **Display** 7" TFT
- **Storage/Recording** internal memory SD card USB flash drive
- **Calculations** Mass/heat quantity heat quantity difference

**Field of application:** The Advanced Data Manager is a flexible and powerful system for organizing process values. Thanks to its intuitive operation, Memograph M adapts quickly and easily to any application. The process values are clearly presented on the display and logged safely,

limits are monitored and analyzed. Via communication protocols, the measured and calculated values can be easily transferred to higher-level systems and plant modules can be interconnected. Also available as DIN rail version without display.

## Features and specifications

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### Data Manager & Data Logger

#### Measuring principle

Data manager

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#### Measuring principle

Data Logger

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#### Function

Secure data recording and signal analysis  
visualization  
integrated web server for device set-up  
HART(R) transparency, RSG45 as a HART modem  
E-Mail notification (encrypted mails)  
100 ms scan rate, high speed storage cycle 100 ms  
modular design for simple expansion  
data readout and processing via Field Data Manager  
Software  
OPC server for indication of instantaneous values (optional)

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#### Input

20 analog (max) (U, I, TC, RTD, frequency, pulse)  
20 HART (max) (HART, 4...20mA)  
14 digital (max) (control, event and counting inputs)

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#### Output

12 relays (max)  
2 analog (max) (I, pulse)  
1 transmitter power supply

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**Data Manager & Data Logger****Interface**

RS232/485  
Ethernet  
USB  
Modbus RTU/TCP Slave  
Modbus RTU/TCP Master  
Profibus DP  
PROFINET Device  
EtherNet/IP Adapter

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**Storage/Recording**

internal memory  
SD card  
USB flash drive

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**Display**

TFT 7" colour graphic display  
TFT 7" colour graphic display with touch panel

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**Housing**

panel mounting with zink diecast bezel  
panel mounting with stainless steel bezel  
desktop housing  
field housing

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**Power supply**

100...230 V AC +/-10%  
24V (-10%; +15%) AC/DC

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**Certificates**

EAC  
UL (US und CA)  
ATEX II2G Ex px IIC Gb  
ATEX II2D Ex pD IIIC Db  
UL listed  
PROFINET certified

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**Data Manager & Data Logger****Software package**

Batch software  
Waste water software  
Tele-alarm software  
Energy software (water + steam)  
Waste water + storm overflow + Tele Alarm  
Tele-alarm software + energy software (water + steam)

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**Energy & Application Manager****Measuring principle**

Energy manager

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**Measuring principle**

Energymanager

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**Function**

Mass flow and energy calculation for Water and Steam.

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**Calculations**

Mass/heat quantity  
heat quantity difference

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**Number of applications**

8

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**Calculation standards**

IAPWS-97

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**Communication**

RS232/485  
Ethernet  
USB  
Modbus RTU/TCP Slave  
Modbus RTU/TCP Master  
Profibus DP  
PROFINET Device  
EtherNet/IP Adapter

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## Energy &amp; Application Manager

**Power supply**

Not defined

**Loop power supply**

24 V DC +/-15%

**Protection class**

IP65 (front-panel)

**Input**

0...20 universal

HART

6...14 digital

**Output**

2 analog

**Dimensions (WxHxD)**

195,2 x 149,2 x 227,1 mm (7,69" x 5,87" x 8,94")

**Operation**Navigator on-site, web server and via FieldCare/  
DeviceCare**Display**

7" TFT

**Software functions**

Internal calculation for mass flow and energy

**Certificates**

ATEX Ex px, Ex pD

UL listed

PROFINET certified

EAC

Non-hazardous area + KC marking

More information [www.endress.com/RSG45](http://www.endress.com/RSG45)