Memograph M RSG45
Advanced Data Manager

Saves, visualizes, analyzes and communicates

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

### Data Manager & 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)

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

**Output**
- 12 relays (max)
- 2 analog (max) (I, pulse)
- 1 transmitter power supply
Data Manager & Data Logger

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

**Storage/Recording**
- internal memory
- SD card
- USB flash drive

**Display**
- TFT 7" colour graphic display
- TFT 7" colour graphic display with touch panel

**Housing**
- panel mounting with zink diecast bezel
- panel mounting with stainless steel bezel
- desktop housing
- field housing

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

**Certificates**
- CE
- EAC
- UL (US und CA)
- ATEX II2G Ex px IIIC Gb
- ATEX II2D Ex pD IIIIC Db
- UL listed
- PROFINET certified
### 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)

### Energy & Application Manager

**Measuring principle**
- Energy manager

**Measuring principle**
- Energy manager

**Function**
- Mass flow and energy calculation for Water and Steam.

**Calculations**
- Mass/heat quantity
- heat quantity difference

**Number of applications**
- Not defined

**Data storage**
- yes

**Calculation standards**
- IAPWS-97
Energy & Application Manager

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

**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
Energy & Application Manager

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

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