

Memograph M RSG45 Advanced Data Manager

Saves, visualizes, analyzes and communicates



More information and current pricing:

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

Measuring principle

Data manager

Measuring principle

Energymanager

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)

Data Manager & Data Logger**Output**

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

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

Data Manager & Data Logger**Certificates**

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

Software package

Batch software
Waster 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

Energymanager

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

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

Communication

RS232/485

Ethernet

USB

Modbus RTU/TCP Slave

Modbus RTU/TCP Master

Profibus DP

PROFINET Device

EtherNet/IP Adapter

Power supplyNot defined

Loop power supply24 V DC +/-15%

Protection classIP65 (front-panel)

Input

0...20 universal

HART

6...14 digital

Output2 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

Display7" TFT

Energy & Application Manager

Software functions

Internal calculation for mass flow and energy

Certificates

CE

EAC

UL (US und CA)

ATEX II2G Ex px IIC Gb

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