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.ca.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

Data Manager & Data Logger

Measuring principle
Data manager

Measuring principle
Data Logger

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

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

Energymanager

Function

Mass flow and energy calculation for Water and Steam.

Calculations

Mass/heat quantity
heat quantity difference

Number of applications

8

Calculation standards

IAPWS-97

Communication

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

Energy & 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.ca.endress.com/RSG45**