

Memograph M RSG45 DIN rail

Data recorder, application manager and communication gateway

Safely record, manage, store and connect your measurement data

The new compact Memograph M RSG45 DIN rail turns your data into information and seamlessly communicates into your target automation system.

The device is a perfect fit for all industries and applications and meets the highest requirements with regards to data security, process control and connectivity. Its compact design for DIN rail mounting makes for quick and easy installation. The embedded webserver offers real-time visualization of all data and event records as well as remote access for comfortable setup and service no matter where you are.



Your benefits

Value	Benefit	Feature
Premium connectivity and data access	<ul style="list-style-type: none">Worldwide access to real-time dataSeamless digital communication	<ul style="list-style-type: none">Integrated webserverHART inputs, digital data processing, fieldbus communication
Maximum process control and data security	<ul style="list-style-type: none">Secure data recordingConsistent, tamper-proof data storage, compliant with legal data directives	<ul style="list-style-type: none">Built-in and removable storageData processing: math channels, boolean logicFDA 21 CFR part 11 compliantAudit trail
Time and cost saving	<ul style="list-style-type: none">Quick and easy cabinet installationQuick and easy wiring & commissioningLow total cost of ownership	<ul style="list-style-type: none">Compact design, DIN rail mountingSpring terminalsPredefined application packages and software functions

Designed for smart connectivity

Memograph M RSG45 for DIN rail mounting is a powerful device to record and store process values and perform application-based data processing. It comes readily equipped to transfer measured data and calculated results into all major automation system architectures such as PLC, SCADA, DCS or further into cloud data structures.

It excels in connectivity and seamless integration into new and existing systems, offering native support for common fieldbus interfaces and protocols from PROFIBUS DP and Modbus to Ethernet-based standards such as PROFINET and EtherNet/IP. Onboard standard Ethernet provides a second channel for data communication (e.g. by using OPC), service and maintenance access.

Specifications & features at a glance

Device specifications

- Compact dimensions: 136 x 181 x 89.9 mm
- Standard DIN rail mounting
- IP20 protection class
- 24 V DC / 230 V AC power supplies
- 20 input channels (HART, universal)
- 6 (14) digital inputs
- 6 (12) relays
- 2 analog outputs
- Sensor power supply (24 V DC, 250 mA)
- Real-time clock (NTP synchronization)

Communication interfaces and protocols

- HART
- Modbus RTU / Modbus TCP/IP
- PROFIBUS DP
- PROFINET
- EtherNet/IP
- Ethernet TCP/IP
- USB
- RS232/RS485
- OPC

Data management

- Tamper-proof data recording
- Storage cycle: 100 ms
- Internal memory: 256 MB
- SD card: up to 32 GB
- USB drive: up to 32 GB
- FDM Field Data Manager software for visualization, analyzing, backup and reporting

Software and application packages

- Embedded webserver
- 12 mathematic channels
- Limit switches, linearization
- Batch software, telealarm
- Energy applications
- Audit trail (FDA 21 CFR part 11)
- User administration
- iTHERM TrustSens calibration monitoring

System integration

