



MDS-5 Data Logger

for the storage of analogue and digital values



SEBA-measuring site Venice/Laguna

Special Features

- analogue and digital input/output connectors for any sensor type
- possibility of event driven data acquisition
- customer friendly installation and operation
- low power consumption
- high data storage capacity (480,000 values) and data security

Multi-channel
data logger



MDS-5



MDS-5 Com with
GSM/GPRS-Modem



ground water - fountain house



flood monitoring



surface water



meteorological
station



MDS-5/MDS-5 Com Data Loggers - Description

SEBA's newly designed MDS-5 multi-channel data logger is the successor of the well known and reliable data logger MDS. The very compact MDS-5 logger stands out by its higher data storage capacity (480,000 values), improved data security and, in particular, lower power consumption.

The MDS-5 is especially characterized by the following features:

- different operational registration modes: time-, dynamic- or event-controlled
- individual on/off control of attached sensors
- comprehensive alarm management with GSM/GPRS-modem incl. SMS messaging

The main and central component of the MDS-5 data logger is the independent CPU-unit with a serial flash-memory. In total up to 12 sensors (8 analogue, 2 digital and other inputs) can be connected to this logger via user-friendly terminals. By default an undisturbed and quick communication and data transfer is conducted by the RS232 or an USB-interface. Optional a bluetooth-interface or modem module can be supplied.

The CPU board of the MDS-5 controls a CPU bus which links several CPU boards to one single-master unit / multi-slave. Therefore, as an example, the data logger and the alarm management system can be set up with separate tasks.

The MDS-5 Com includes already an integrated GSM/GPRS-modem for data transmission.

Technical data MDS-5 and MDS-5 Com

MDS-5



MDS-5

- protection class: IP40
- power supply: 3.6V/7,2Ah lithium battery internal resp. 6...24V battery external
- power consumption: standby: <math>< 50\mu\text{A}</math>, activ: ca. 20mA
- operation temperature: -20...+70°C
- real time clock: RTC +/- 1min/month
- interfaces: 1xRS232, 1xRS485, 1x USB
- memory: 1MB serial flash memory (480,000 measuring values)
- display: LC-display, 8-digits
- key pad: 3x plastic foil key pad
- AD-converter 16bit with input amplifier: max. 8 uni-polar channels (0...20mA resp. 0...2.5V) or 4 bi-polar channels (passive transducers) or mixed-up
- 2 impulse inputs, 1x BCD or 1x Graycode-
- Measurement interval: $\pm 5\text{s}$
- Dimensions (WxHxD): 192mm x 105mm x 75mm
- weight: ca. 700g

Optionally:

- 2x RS232-interface and 2x RS485-interface
- Bluetooth-connection
- integration of GSM/GPRS-Modem Type 740
- digital output: galvanically isolated (alarm management)
- analogue output: 4...20mA galvanically isolated (Online-channels)

MDS-5 Com



MDS-5 Com with GSM/GPRS-Modem

Technical data of MDS-5, except

- protection class: IP65
- key pad: 1x foil key
- Modem: internal GSM/GRPS (Type 74001) or telephone modem with antenna
- inputs: serially via RS485 (max. 8 parameters)

- alternatively: AD-converter 16bit with input amplifier:
- max. 8 uni-polar channels (0...20mA resp. 0...2.5V) or 4 bi-polar channels (passive transducers) or mixed-up
 - 2 impulse inputs

GSM/GPRS-Modem Type 740 (MDS-5) GSM/GPRS-Modem Type 74001 (MDS-5 Com)

- frequency: 850/900MHz/1800/1900MHz (EGSM, Quadband)
- HF output max.: 2W 850/ 900MHz
1W 1800/1900MHz
- antenna impedance: 50 Ohm
- SIM-Card: 1.8V / 3V / 5V
- power supply: 8VDC...12VDC
- electric current: 100mA (receipt)
30mA (standby)
2.1A (transmission) max. 2.25A
- operating temperature: -30°C...85°C
- storage temperature: -40°C...85°C



GSM/GPRS-Modem Type 740

The right is reserved to change or amend the foregoing technical specification without prior notice.



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