SEBA HYDROMETRIE

MDS III DATA LOGGER

QZV We are certificated
ISO 9001
certificate no. 01110505
Quality Is Our Standard

Software MGMDS / MLMDS
Multiparameter Graphic and Listing

D.E.M.A.S. Data Evaluation Management Aquisition Software

Applications:

- water level measurements in ground- and surface water
- quantity measurements of spring waters and on measuring weirs
- quality measurements (for example water quality elements)
- survey of deposits
- survey of dams
- survey of pumping tests, slug and baile tests
- meteorological stations

DATA RECORDING

C14_06.02.2002_MDS-III_e

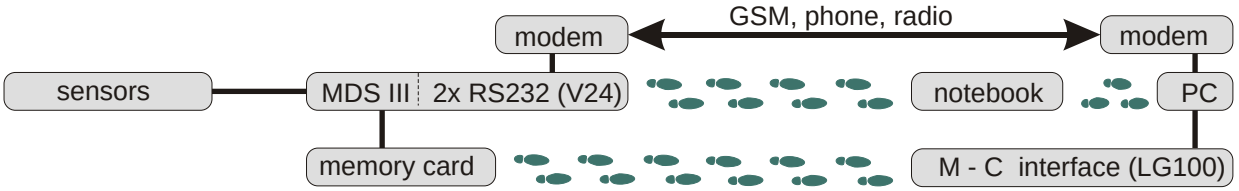
System description

The MDS III data logging system has been developed as tough field recording device for unattended monitoring of water and environmental parameters. More than fifteen years experience in manufacturing and applications of data loggers in the regimes of hydrology, meteorology and sewage, plus results of world wide marketing and user comments, have let the MDS III to the most modern, universal and economical measuring instrument of this kind. A credit card memory system ensures easy transfer of data from several data loggers. The internal memory storage capacity (ring memory) amounts to 128-512 kByte corresponding to approx. 60.000-250.000 measured values. Moreover any desired control values with automatic time mark can be inserted for each channel, as well as 128 signs for station description and 128 signs as comment. Up to 16 input channels can be programmed individually to sample at intervals of 1 second 1 day or they can be set to react only to events in order to minimise memory usage.

Sensors

A wide range of sensor types can be accomodated by MDS III central unit conditioner: 14 analogue channels are available allowing voltage, current & resistive inputs, plus 2 digital inputs for impulses, BCD code etc.

Data transfer options



Technical data

Processor:	V 25 (NEC µPD 70320C) working intervall 2,5 / 5 Mhz
ROM:	64 - 256 kByte
Real-time clock:	RTC 63421 A
A/D converter:	AD 7710 for 12 / 15 bit resolution programmed
RAM:	128-512 kByte ring-memory for approx. 60000 - 250000 measured values
Measuring intervals:	>1s for each channel free adjustable, additional event-controlled storage
Power:	storage current: 150mA, operation current: 100mA
Power supply:	4x 1,5V baby cells (alkali mangan) sufficient for approx. 1 year in case of 1 measurement per minute
Operation temp.:	-30°C up to +70°C
Signal inputs:	**analogue**: - 1 up to 14 inputs - free programmable - for voltage or current - 6V interval for passive sensors **digital**: - passiv against GND or TTL Signal - 2 Impulse contacts - 2 counting, resp. frequence inputs - 16 bit inputs (gray, BCD, binary code)
Interfaces:	2 serial interfaces (RS 232), 1 memory card interface (Panasonic standard)
Display:	4 -lines LCD, illuminated
Operation:	18 keys foil keyboard
Housing:	aluminium, lacquered (wxhxd = 120mm x 220mm x 90mm), protection: IP65
Weight:	2300g
Optionen:	- measuring intervals from 0,1 sec. - programmable start/stop-triggering - external power supply - potential free relay

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