sommer MESS-SYSTEMTECHNIK

Hydrology · Meteorology · Geology

Collect, process and storing of measurement data

Data logger – MDL 8/3

The MDL 8/3 is optimized to collect data for environmental monitoring and measuring sites far from any infrastructure. Robust and reliable technology enables secure data storage and data transfer by radio, GSM or GPRS. The remote parameterization is executed by modem / GSM.

A flexible management and support by an assistance-system enables an easy plug-in and parameterization of any type of sensor without any need of external wiring at the sensor interface. For each sensor the measurement- and storing interval can be defined. For special measurement requirement a conditional storing can be activated.

The data logger includes a comprehensive alarm management via modem by phone call or SMS. The notification can also activate a relay output.

The non-volatile storage of 2MB can save up to 600.000 measurement values. The data logger saves actual values, average, minimum, maximum, standard deviation, sum and intenseness.

The standard serial interface is used for data transfer by modem (analogue, ISDN, GSM, GPRS) and parameterization (local / remote). The optional serial interfaces integrate sensors by RS232 / RS485 with adjustable protocol.

Features

- Easy integration of any sensor independent from pin assignment and power supply without need of external wiring
- Sensor database assist for fast and easy set up and maintenance
- Time- and interval management for each sensor with synchronous and/or conditional storing.
- Very low power consumption
- Alarm management via modem by call or SMS
- Parameterization by modem (analogue, ISDN, GSM) or local (RS232)
- Connect ability for data transmission by Modem, GSM
- **Option:** Channel-Extension for max. 40 analogue inputs
- **Option:** Online data transmission by TCP/IP via GPRS (DCM - module) or Ethernet (WEB II – module) to FTP- or MDS-Server.
- **Option:** 2 x serial interface to integrate sensors via RS232 / RS485 with adjustable protocol by user.

Sommer GmbH & Co KG
Straßenhäuser 27, A-6842 Koblach, Austria
Tel. +43 (0)5523 55989 – 0
Fax. +43 (0)5523 55989 – 19
E-mail. office@sommer.at
Internet. www.sommer.at

Hydrologie · Meteorologie · Geologie

Technical specifications

MDL 8/3

Input		Integrated overvoltage protection, continuous voltage proofed up to 36 V
8 Input – Analoge (expandable up to 40 Inputs)	voltage current resistance	0 - 2,5 VDC (22 Bit) (equivalent to 1µV) 0 - 20 mA (22 Bit), 4 - 20 mA (22 Bit) 1 – 10 kΩ
3 Input – Frequenz (Wind)		2 - 1500 Hz Resolution: 0,1 Hz
1 Input – Impulse (Precipitation)		0 - 10 Hz
Memory		Failsafe ring buffer (non-volatile storage) 2 MByte (equivalent up to 600.000 measured values)
Storage methods	synchron asynchron conditional	Interval: 1s – 24h Interval: 1s – 24h If a measurement values exceed a limit values (absolute, relative, time-related limit)
Display		Four line LC-Display, 4 x 20
Storages function		actual values, average, minimum, maximum, standard deviation, sum and intenseness
Output relay		Semi-conductor relay, max. 1,8 A / 24 VDC
Interface – Digital		1 x communication interface: RS 232, 9,6 - 115 kBd **Option:** additional 2 x RS232 or RS485 for sensor integration
Power supply	voltage current standby	5,5 - 15 VDC max. 30 mA (without sensors) (measuring time up to 2 seconds) 100 µA
Power supply sensors	voltage current	5 or 15 VDC 2,5 V reference voltage max. 50 mA for each sensor
Temperature range		-40 °C to +60 °C
Dimensions		Aluminium anodized 170 x 120 x 75 mm 500 g
Protection class		IP 55
Assembling		Mounting on an h-rail

Version 004

Sommer GmbH & Co KG
Straßenhäuser 27, A-6842 Koblach, Austria
Tel. +43 (0)5523 55989 – 0
Fax. +43 (0)5523 55989 – 19
E-mail. office@sommer.at
Internet. www.sommer.at