



Data Logger MDL 4/1

Well proven data logger for mounting in switch cabinet

The data loggers of the MDL family are reliable everywhere, where measuring data have to be precisely gathered, saved, processed and documented under extreme environmental conditions. The MDL 4/1 has got among others four analogue inputs and one for wind parameters.

Features and advantages

- Diverse possibilities of saving data: by interval, by condition or by event
- Actual value, minimum, maximum, mean value, sum, intensity, peak
- Comprehensive alarm functions via SMS, modem call or switch contact
- Quick retrieval of the actual measuring values via SMS
- Failsafe data saving for up to 600.000 records
- Quick and assistant-supported parametrisation
- Easy connection of diverse sensors by automatic internal input configuration

Fields of application

With a robust, reliable and economic design and technics, the MDL 4/1 is optimized for the usage in remote areas off any infrastructure. To fulfil specific requirements of measuring the data logger has a variety of functions for gathering, saving, alarming, managing and transferring of measurement data. For the operation in the field, the data logger mostly comes in a switch cabinet. Optionally the functions of the MDL 4/1 can be extended by a second serial interface for serial sensors.

Technical details

Connection possibilities

- 4 x analogue inputs
- 1 x input wind direction and wind speed
- 1 x input counter (precipitation)
- 1 x output switch for e.g. GSM modem for economic remote data retrieval
- 1 x output switch for alarm
- 1 x serial interface for connection modem (analogue, GSM, GPRS) for remote data retrieval

Inputs

- **Analogue voltage** 0 ... 2.5 V (22 Bit correlates 1 μ V)
- **Analogue current** 0 ... 20 mA or 4 ... 20 mA (22 Bit correlates 0.1 μ A)
- **Analog resistance** 0 ... 10 kOhm
- **Frequency wind** 2 ... 1500 Hz, resolution 0.1 Hz
- **Impulse precipitation** 0 ... 10 Hz

Others

- **Outputs** solid state relay, max. 1.8 A /24 VDC
- **Interface (digital)** RS 232; 9.6 - 115 kBd
- **Memory** 2 MB (correlates app. 600.000 records)
- **Supply data logger** 5.5 ... 20 V; max. 30 mA (without sensors, measuring time approx. 2 sec.); standby 100 μ A
- **Supply sensors** 5 or 15 VDC; 2.5 V reference voltage, 1 mA or 0.4 mA reference current, max. 50 mA each sensor