



Data Logger MRL-6

Reliable, very compact data logger

Gathering, processing and saving of measuring data - simple, practical and quick. The MRL-6 is a reliable and energy saving data logger. Thanks to its weatherproof housing it is optimal for the use in environmental measuring technique and without further infrastructure.

Features and advantages

- Reliable and energy efficient: optimized for the data collection in environmental monitoring off any infrastructure
- Logger can operate totally independent (with battery respectively solar module) - no switch cabinet necessary
- Optimal integration and compatibility with complete SOMMER sensors as well as popular sensor technique
- Parametrisation over RS232 and Bluetooth
- Easy data read-out and update over USB-stick or Bluetooth interface
- Robust, compact, weatherproof aluminium casing (powder coated)
- Very good cost-benefit ratio
- Connection possibilities for data transmission via modem/ GSM and GPRS (with DCM box)

Fields of application

The MRL-6 can be used for all possible areas in environmental monitoring and measuring branch, where a low maintenance and energy efficient operation is of high importance as for example at measuring sites where no power network or switch cabinet is installed. It is a cost efficient solution for water level stations, as simple temperature logger, for wind stations or for smaller monitoring systems of geology. With easy and solid data transmission (USB or Bluetooth), long battery lifetime as well as the compact, watertight housing the MRL-6 is a cost effective all-rounder for several areas of application.

Technical details

General

- **Dimensions** 160 x 90 x 60 mm (W x H x D)
- **Weight** 1.050 g (incl. batteries)
- **Housing** aluminium, powder coated
- **Protection** IP 66
- **Energy supply** battery (4 x AA, 1.5 V batteries); external supply (5 ... 28 V); integrated solar charge controller for solar panel with 8 ... 28 V or external supply
- **Sensor supply** 5/12 V, max. 20/50 mA

- **Reference voltage** 2.5 V for potentiometer
- **Display** LCD Display with digital contrast setting, 2 x 16 characters; LED background illumination with splash safe cover and extended temperature range
- **Keypad** 5 keys-pad to read in the current measuring data, confirmation for observer
- **Number of channels** up to 40
- **Memory** failsafe flash memory; 2 MB internal (correlates approx. 500.000 records)
- **Operating temperature** -40 °C ... +60 °C
- **Functions** real-time value, intensity, minimum, maximum, sum, mean value etc.

Interfaces

- **Inputs** 4 x analogue 0 ... 2.5 V (thereof 1 x PT-100 4-conductor); 1 x counter, 1 x frequency input for wind speed and wind peak, 1 x poti input for wind direction
- **Digital sensor interfaces** 1 x RS 485, 1 x SDI-12 Interface (Vers. 1.3)
- **Interface** 1 x communication interface: RS 232, 9.6 to 115 kBd, 1 x USB host (only for data read-out on USB), 1 x Bluetooth
- **Output (digital resp. analogue)** none