TEAMORK

SOMMER
MESSTECHNIK

MRL-6

Data Logger

Collecting, processing and storing measurement data – easy, convenient and quick

Features and Advantages

✓ Reliable and energy-saving: optimised to collect monitoring data in remote areas without any infrastructure

✓ Logger operates fully independently (with internal batteries or integrated solar charge regulator), no switch cabinet required, protection type IP 67

✓ Ideal integration and compatibility with complete SOMMER sensor family as well as common sensors

✓ Backlit display for easy data readout

✓ Parameterization via RS-232 and Bluetooth

✓ Data readout with USB flash drive or Bluetooth-interface

✓ Minimum energy demand

✓ Solid, compact, weatherproof aluminium housing

✓ Connection for remote data transmission through modem / 3G possible (with external 3G modem)

Technical Data

General	
Dimensions (box)	160 mm x 90 mm x 60 mm (width x height x depth)
Weight	1050 g (incl. batteries)
Material	aluminium box, powder coated
Protection	IP 67 - suitable for outside application; over voltage and reverse power protection
Power supply	- battery (not within scope of supply): 4 x AA 1.2 V NiMH batteries (L-type) or alkaline batteries - external power supply: 5 ... 28 V - integrated solar charge regulator for solar panel
Power consumption (in standby mode)	- 0.2 mA with integrated battery - 0.44 mA at 12 V with external power supply
Sensor supply	5 V / max. 20 mA or 12 V / max. 50 mA
Reference voltage	2.5 V for potentiometer (max. 0.5 mA)
Display	- LC display with digital contrast setting, 2 x 16 characters - LED backlight with a splash water proof cover (foil) and extended temperature range
Keyboard	5 keys-keyboard: - for displaying current measurement values - confirmations for observer, manual input and adjustments
Number of variables	up to 40 (optionally up to 80)
Memory	- non-volatile flash memory - 4 megabyte internal (equivalent to approx. 600.000 measurement values)
Intervals (adjustable)	- measurement interval: 1 s ... 24 h - storage interval: 5 s ... 24 h
Software-compatibility	Commander by SOMMER Messtechnik, FAT 32/16 USB flash drive
Operating & storage temperature	-40° C ... +60° C
Installation	easy installation; wall mount possible without extra housing
Functions	actual values, intensity, minimum, maximum, aggregated values, mean values, etc.
Deep discharge protection	for logger and for MRL-6 supplied sensors
A/D converter	16 bit resolution

Interface	
Inputs	- 4 x analogue 0 ... 2.5 V (thereof 1 x PT-1000 4-wire connection, 1 x NTC, 1 x 0 ... 0.3 V) - 1 x counter - 1 x frequency input for wind speed - 1 x potentiometer input for wind direction
Overvoltage protection	all inputs with integrated overvoltage fine protection, continuous voltage safe up to 36 V
Digital sensor inputs	- 1 x RS 485 (various ASCII protocols) - 1 x SDI-12 interface (vers. 1.3)
User interfaces	- 1 x Bluetooth - 1 x USB host (only for readout of data on USB flash drive) - 1 x communication interface: RS 232; 9.6 ... 115 kBd
Output	1 x switching output: semi-conductor relay, max. 0.5 A / 28 VDC

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