

MRL-6

Data logger



The MRL-6 is a compact data logger designed to acquire, process and store all sorts of environmental data. Its waterproof housing, integrated modem and solar charger make the MRL-6 ideal for remote, autonomous monitoring applications. The MRL-6 is compatible with all sensors offered by SOMMER Messtechnik and all third-party devices equipped with analog, SDI-12 or RS485 interface options.

Versions

Art	Version
20053	MRL-6 data logger

Scope of delivery

Name
MRL-6 in the required version
Manual and Commander Software on USB stick

Accessories

Art	Accessory
20181	RS-232 to USB converter cable with push-pull connector, 1.8 m
20595	Digital time laps camera
20436	Blanking plug for unused cable glands
20434	Internal connector set
20217	3G modem
20824	4G modem
20185	Modem data cable with push-pull connector and D-Sub plug, 0.8 m
20249	Modem power supply cable, 2 m

Specifications

Device specifications	
Power supply	9...28 VDC; Overvoltage and reverse voltage protection Solar panel supply: max. 10 W/12 V 4x AA 1.2-1.5 V NiMH (L-type) or alkaline batteries, 10.8 Ah (not included)
Power consumption	Active: <23 mA @ 12VDC Standby: <0.4 mA @ 12VDC; <0.2 mA with AA-batteries
Sensor supply	50 mA @ 5V 20 mA @ 12V 500 mA @ switched supply voltage
Inputs	4x Analog 0...2.5 V, 16 bit (3 single ended, 1 differential) 1x Counter 1x Wind speed (frequency) 1x Wind direction (potentiometer) 1x RS-485 sensor or camera input 1x SDI-12 (MRL-6 as master)
Outputs	1x Switch output (max. 500 mA @ supply voltage) 1x RS-232 (1200...115200 Baud, ASCII protocol) 1x USB 1x Bluetooth
Memory	4 MB internal flash memory (equivalent to approx. 500'000 measurement values)
Measurement interval	1 s ... 24 h
Operating temperature	-30 ... 60 °C (-22...140 °F), 10...95 %rH
Storage temperature, humidity	-40 ... 85 °C (-40...185 °F), 10...95 %rH

Device specifications

Protection rating	IP 67
Size L x W x H	160 x 90 x 60 mm (6.30 x 3.54 x 2.36 inch)
Weight	MRL-6: 1050 g (2.31 lb), including AA-batteries

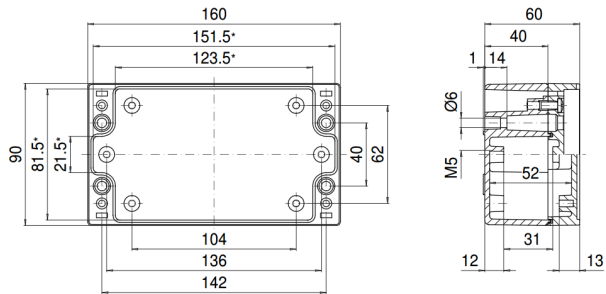


Figure 1 MRL-6 dimensions