

DATALOGGER DLN

The DATALOGGER DLN is a LOW-POWER measuring system for acquisition and storing of measuring data of different precipitation sensors.



- Up to 1 year data storage
- THIES Distrometer (LPM) connection
- SD card and USB connection
- Sensors for temperature and humidity connectable
- Charge controller integrated for solar panel



Order-No. 5.1756.00.000



Datalogger DLN

The Datalogger DLN records pulse-measuring-values from at most 2 precipitation sensors. A PT100 sensor and a humidity sensor can be connected, too. The instrument stores the data together with time and date, according to the set storage cycle.

In addition, or exclusively as well, the measuring data of a THIES Disdrometer with serial data output (LPM 5.4110.xx.xxx), can be recorded and stored.

The readout of the stored data is carried out directly via the RS232 interface, USB, or by an SD card. All essential parameters, such as date, time, station name, and storage cycle can be set via 3 buttons.

The instrument can be operated in mains-independent mode with battery supply. An integrated charge controller is suitable for the direct connection of a max. 20 W solar-panel.

Another feature is the potential-free extraction of precipitation sensor pulses via opto-coupler, such as for further processing via local control systems.

The Datalogger DLN is designed for indoor installation. In case of outdoor application an additional protective housing of a respective protection class is required.

Technical Data:

Operation voltage	24 V AC/DC, 50/60 Hz, 0.5 A
Battery*	12 V DC, 7 Ah
Solar panel*	Nominal voltage 15-18 V, max. 20 W
Power consumption	0.1 ... 2 mA
Measuring value inputs	2 x Reed contact/pulses serial-asynchronous RS 485 1 x temperature PT 100 1 x rel. humidity 0-1 V
Accuracy	0.1 % or resp. 0.1 °C
Measuring value outputs	2 passive opto-couplers (max. 24 V, max. 1 mA)
Measuring cycle analogue values	1 s ... 60 min settable
Storage cycle	1 ... 60 min settable
Time basis	RTC real time clock with automatic leap year recognition
Storage capacity	64 KB (flash, uploadable)
Data	4 MB (flash)
Data records	303104 (with 4 sensors) 147456 (with 10 sensors)
Data output	Serial RS232 USB 2.0 full speed device SD card up to 2 GB
Operating temperature	-30 ... +60 °C
LCD display	2 lines of 16 characters
Mounting	Snap-in mounting on standard rack 35 mm
Connection	Clamps
Protection	IP 20
Dimension	157x86x58.5 mm
Weight	0.7 kg

Accessories:

- Power supply 60 VA
- Protective housing with clear cover IP 67 for outdoor mounting

* Storage battery and solar panel are not included in delivery.



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**Please contact us
for your system
requirements.
We advise you gladly.**

