UnilogLight - Data Logger

Your easy way for reliable and cost-effective storage of analogue and digital signals

Key Features

- Compact construction, robust and weatherproof housing
- Huge 4 MB ring memory for 280.000 values
- High data security due to integrated watchdog
- Analogue and digital inputs for easy connection of various sensor types (e.g. rain, pressure, radar ...)
- Individually programmable (cycle mode, event mode, quicklog mode, mean-value)
- Extendable with GSM/GPRS modem
- Easy, user guided programming with operation software SEBA Config

Description

Compact, robust, flexible - the new **UnilogLight** is a versatile service-wonder within the SEBA Universal Logger family. As an economic and all-purpose data logging system, the **UnilogLight** is suitable for a large scope of applications in the fied of hydrology and meteorology.

It is also a very reliable instrument for extreme field conditions. The digital recording of water levels and other parameters, like flow, waterquality and percipitation is done by a modern serial flash memory.

The serial flash memory provides a high data capacity with absolute data security and very low energy consumption. The power supply is done either external or by the use of the internal 9V battery.

Both analogue and digital sensors deliver data via RS485 or SDI12 interfaces. For the use at site there are three function keys. Information like date, time, measuring value, amount of stored data and battery capacity are available at the push of a button.

Overview UnilogLight types

UnilogLight R:	for rain stations (e.g. RG50, RG100, TRW etc.)
UnilogLight SDI12:	for connection of various SDI12 sensors (one or many)
UnilogLight SHWP:	with digital RS485 input for connection of SEBA sensors with SHWP interface (e.g. DS22, MPS)
UnilogLight Analog:	for connection of various analogue sensors (max. 2)
UnilogLight ENC:	with integrated shaft encoder (detachable)

All types can be extended up to 32 input channels via external MET-controller. An input for rain is also possible in all types.
Additional optional features: encoder input, analogue input, sampler output

Technical Data

Power supply internal:	9 V block battery sufficient for use with rain gauge and/or encoder
Power supply external:	9...15 V_{DC} (typ. 12 V_{DC}) neccessary for external sensors (e.g. MPS)
Flashcontroller:	R2C 32 bit with integrated watchdog
Memory:	serial flash memory with 4 MB (approx. 280.000 measured values)
A/D Converter:	16 bit
Inputs/ Outputs:	Configurable on demand by SEBA: up/down counter, input phase counter, pulse (rain) 2 contact inputs (monitoring, protocoll) 2 analogue (bi-/unipolar) for standard signals, open collector output (connection of sampler) extendable up to max. 32 inputs (optional) with external module
Keypad:	with 3 functional keys
Display:	3 lines, each 16 characters, 3.65 mm (backlight upon request)
Interfaces:	RS232 (for modem connection/for readout & operation) and additionally either RS485 (SHWP) or SDI-12
Operation Temperature:	-30 °C...70 °C
Housing Material:	aluminium
Protection Class:	IP 65
Weight:	approx. 0,25 kg
Dimensions:	143x85x38 mm (LxWxH)

Modem connection & Operation interface

SHWP input (alternatively SDI12)

Connection of external sensors

Display: 3 - lines, 16 characters

Operation keys

Battery compartment batteries replaceable by customer

SEBA Hydrometrie GmbH & Co. KG
Gewerbestr. 61a • D-87600 Kaufbeuren
Tel.: +49 (0)8341 / 9648-0
Fax: +49 (0)8341 / 9648-48
E-Mail: info@seba.de
Internet: www.seba.de

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