



Data Loggers Levellog/Unilog

Storage of Analogue and Digital Measuring Values



Special Features

- customer friendly installation and operation
- LAN network compatibility
- possibility of event driven data acquisition
- analogue and digital input connection for any sensor type
- data storage capacity of 70,000 values and high data security

Multi-Channel Data Logger



Levellog



Unilog



Environmental Data



Flood Monitoring



Surface Water



Meteorological
Station

Description

The data loggers [Levellog](#) and [Unilog](#) are new product developments from SEBA Hydrometrie which can digitally record the water level or any other parameter such as water quality or rainfall. The implementation of a state-of-the-art serial flash memory enables a relatively high data capacity combined with high data security. The new logger systems also stand out by a lower power consumption and reduced dimensions of the electronic circuit board.

The most important features are as follows:

- Event-controlled / time-controlled registration
- Individual control of the connected sensors
- Alarm management

The basis of the logger is a stand alone "Central Processor Unit (CPU)". In total eight analogue and two impulse inputs can be connected via terminals to the logger. In addition a variety of options are available: modem module, USB, bluetooth interface or LAN.

The CPU board controls a CPU bus in order to combine several digital sensors to one single-master unit / multi-slave. Therefore it is possible to strictly separate the management system of the data logger from that of the alarm. A special RTC-IC (real time clock) constantly secures the time and watchdog function independently from the micro controller.

Overview Levellog Types

	Channels	Function
Levellog	1	Float-operated encoder with integrated data logger
Levellog-Q	2	As Levellog with additional channel for calculation of discharge
Levellog-R	2	Float-operated encoder with integrated data logger and additional impulse input of a rain gauge
Levellog-DS	1	Data logger with digital RS485 input for water level sensors e.g. DS-22 or other digital sensors
Levellog-DS/Q	2	As Levellog-DS with additional channel for calculation of discharge
Levellog-DS/R	2	Data logger with digital RS485 input for water level sensors e.g. DS-22 and additional impulse input of a rain gauge

Technical Data Levellog

Electronics:

- power supply: internal 6V (4x1.5V C-batteries)
external 4.5...20V
- back up battery internal 3.6V lithium ½AA/1Ah optionally
- charging rate in power-down mode: 140µA
- flash controller M16C 16bit with integrated watch-dog
- clock IC
- serial flash memory with 8 MB
(approx. 70,000 measured values)
- logical channels: up to 32 channels

Handling and display:

- display (3 lines, each 16 characters, 3.65mm)
- keyboard with 3 keys

Interfaces:

- RS232
- RS485

In-/Outputs:

- RS485 sensor interface (SHWP)
- SDI12 sensor interface input (option)
- Up/down counter input, phase counter
- impulse input (rain)

Technical Data Unilog

Electronics:

- base: Levellog
- power supply external 5.5...20V
- back up-battery internal 3.6V lithium AA/2Ah
- average power consumption: 7.5mA
(75mA with LAN module)
- flash controller M16C 16bit with integrated watch-dog
- clock IC
- serial flash memory with 8 MB (approx. 70.000 measured values)
- logical channels: up to 32 channels
- A/D-converter 16 bit

Handling and display:

- display (3 lines, each 16 characters 3.65mm)
- keyboard with 3 keys

Interfaces:

- RS232, RS485, USB, LAN(optional)

Inputs:

- RS485 sensor interface (SHWP)
- SDI12 sensor interface input (option)
- up/down counter input, phase counter, impulse(rain)
- 2 contact inputs (control, protocol)
- 8 analogue bi-/unipolar for standard signals, potentially isolated extendable up to max. 32 analogue inputs (optional)

Outputs:

- RS485-sensor-interface (SHWP)
- binary, BCD, Gray (optional)

all connections with push in clamps up to 1.5mm²

The right is reserved to change or amend the foregoing technical specification without prior notice.



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