



Data Logger Unilog

Storage of Analogue and Digital Measuring

- Wide-ranging applications, high capacity data collector with a total of 32 logical channels
- 16 MB ring memory for 1,120,000 measurements
- Compact plastic housing for wall mounting
- Backlit LCD with three multi-function buttons to display current measured values and system states
- Configurable analog and digital input channels to connect up to 32 sensors
- Mini USB for data transfer (optional)
- Connectivity for external GSM/GPRS modem type ModCom, Iridium satellite modem type etc.

Description

The data logger Unilog 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 stands 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.

Technical Data

Sensors:	DS(T)-22, SEBAPuls, LevelSense, Surfloat-Sensor-4, PS-Light-2-Sensor, MPS-PTEC, MPS-D3, MPS-D8, MPS-K16, RG 50 / RG 100 / TRW, meteorological sensors	
Logger:		
Controller:	32 Bit Flash controller with integrated WatchDog RTC-IC Real Time Clock	
Memory capacity:	Internal: 16 MB (= 1,120,000 measurement readings) External: 16 GB USB Flash Drive (= 10 million readings)	
Save interval:	2 min - 99 hours	
Channels:	max. 32	
Measurement routines:	Single value, average value, event clock, Delta mode	
Communications Interface:	RS 232 (standard), USB, Ethernet interface (option)	
Operation:	Interface cable (USB / USB-Mini-RS 232) BlueCon (Bluetooth)	
Inputs:	Digital: 1 x RS 485 (SHWP) for digital SEBA sensors, 1 x pulse, 2 x Contact, 2 x RS 232 / RS 485 (Optional) Analog: 8 x 0-1 V, 0/4-20 mA expandable to 32 analog signals with external A/D converter	
Outputs (Option):	Digital: SDI-12 or MODBUS Analog: 0...1/5 V or 0/4...20 mA	
Power supply:	12 VDC	
Housing:	Material:	polycarbonate
	Dimensions:	166 x 185 x 105 mm (l x w x h)
	Display:	3-line LCD display
	Keyboard:	3 multifunction buttons
	Protection class:	IP 65
	Fastening:	Wall mounting, top-hat rail
	Operating temperature:	-40 °C ... +70 °C



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

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