# 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.

ISO 9001:2015
QZV
We are certified
Quality is our standard

# 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

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|---|---|---|
| **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 x1 05 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 |