



# UnilogCom

Data logger for the storage and data transmission of analogue and digital values

## Special Features

- Customer friendly installation and operation
- Possibility of event driven data acquisition
- Analogue and digital input connection for any sensor type
- Data storage capacity of 280.000 values
- Watch-dog function for safe operation and high data security
- Integrated GSM/GPRS modem
- FTP data push option
- Time server synchronisation

Multi-channel data logger



UnilogCom

Data logger with GSM/GPRS-Modem



Environmental Data



Flood Monitoring



Surface Water



Meteorological Station



## UnilogCom - Description

The **UnilogCom** is a new product development of SEBA Hydrometrie which can digitally record water level or any other parameter such as flow, 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:

- different registration modes: time-, dynamic- or event-controlled
- individual on/off control of attached sensors (optimizing power consumption)
- comprehensive alarm management with GSM/GPRS-modem incl. SMS messaging

The basis of the logger is a stand alone "Central Processor Unit (CPU)". In total two analogue and two impulse inputs can be connected via terminals to the logger. By external module the number of channels can be extended up to 32.

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.

The UnilogCom comes with a built-in integrated GSM/GPRS-modem for data transmission which also allows FTP Push transmission. Collecting your data automatically from all of your fieldstations has never been easier.

## Technical data UnilogCom

### Electronics:

- Power supply: external 4.5...17V
- Consumption (in power down mode): <80  $\mu$ A
- Peak current (modem transmitting): 500mA
- Electric current (receipt): 30mA(12VDC)
- Flash controller M16C 16bit with integrated watch-dog
- Clock IC
- Serial flash memory 4 MB (approx. 280.000 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 function keys

### Interfaces:

- RS232 - RS485

### Inputs:

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

### Optional Outputs:

- Binary - BCD - Gray



### GSM/GPRS Modem (integrated)

Frequency:	850/900/1800/1900MHz (EGSM, Quadband)
HF output max.:	2W 850/ 900MHz 1W 1800/1900MHzA
Antenna impedance:	50 Ohm
SIM-Card:	1.8V / 3V

**Operating temperature:**  
-30°C...70°C

**Protection Class:**  
IP65

**Dimensions:**  
157x126x60 mm (LxWxH)

**Housing Material:**  
Polycarbonate (robust / weatherproof)

**Optional Analogue Input Module**  
for up to 8 additional analogue inputs  
(external module)

- converter with input for up to eight analogue signals for connection to UnilogCom
- output: RS485
- basic version with 3 input signals



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



**SEBA Hydrometrie GmbH**

Gewerbestr. 61a • D-87600 Kaufbeuren

Phone: +49 (0)8341 / 9648-0

Fax: +49 (0)8341 / 9648-48

E-Mail: info@seba.de

Internet: www.seba.de

represented by: