



## Data Logger UnilogCom

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

- Wide-ranging applications, high capacity, multi-channel data logger with integrated cellular modem
- Large 16 MB ring memory for 1,120,000 measurements
- Compact plastic housing for wall mounting
- LCD with three multi-function buttons to display current measured values and system state (Option: Backlit LCD)
- Transfer Options: mobile data retrieval, FTP/FTPS Push, SMS push, SMS Alarms, HTTP
- Connectivity of digital and analog probes

# Description

The UnilogCom 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 cellular 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 cellular 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

<b>Sensors:</b>	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		
<b>Logger:</b>	<b>Controller:</b>	32 Bit Flash controller with integrated WatchDog	
		RTC-IC Real Time Clock	
	<b>Memory capacity:</b>	16 MB (= 1,120,000 readings)	
	<b>Save interval:</b>	2 min - 99 hours	
	<b>Channels:</b>	max. 32	
	<b>Measurement routines:</b>	Single value, Average value, Event clock, Delta mode	
	<b>Communications Interface:</b>	RS 232 (standard), Bluetooth® (optional)	
	<b>Operation:</b>	Interface cable (USB/RS 232), BlueCon 2 (Bluetooth®)	
	<b>Inputs:</b>	RS 485 sensor interface (SHWP), SDI-12 sensor interface, 2 analog inputs (bi/unipolar) for current/voltage (e.g. 0-1 V, 4-20 mA, etc.), optionally extendable to max. 32 analog inputs by external modules, 1 encoder input (not possible in combination with contact inputs), 2 contact inputs for monitoring/logging (not possible in combination with encoder input), 1 impulse input (rain)	
	<b>Housing:</b>	<b>Material:</b>	polycarbonate
		<b>Dimensions:</b>	157 x 126 x 60 mm (L x W x H)
		<b>Display:</b>	3-line LCD
		<b>Keyboard:</b>	3 multifunction buttons
		<b>Protection class:</b>	IP 65
		<b>Fastening:</b>	Mounting plate, top-hat rail
	<b>Power supply:</b>	12 VDC	
	<b>Operating temperature:</b>	-40 °C ... +70 °C	
<b>Modem 4G:</b>	<b>Supported transmission:</b>	GPRS/EDGE/UMTS/HSDPA/HSDPA+/LTE, GSM (SMS alert)	
	<b>Frequencies:</b>	4G: B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28 3G: B1, B2, B4, B5, B6, B8, B19 2G: B2, B3, B5, B8	
	<b>Transmission protocols:</b>	Data retrieval via mobile data (2G/3G/4G): SHWP FTP/FTPS push: ZRXP, D-channel, csv or ACRON HTTP	

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

### Contact:

Virtual Hydromet | [vhydromet@yahoo.com](mailto:vhydromet@yahoo.com) | +91-9412072697