

Data recording and transmitting

- Datalogger with integrated Modem
- Battery operation or mains connection
- robust, waterproof aluminium housing

Applications:

- Level measurement and remote transmission with HT sensors and / or external sensors such as floating-, bubbling-, radar sensors
- Connection of electromagnetic flow meters 4 ... 20 mA or by reed-contact and additionally also with HT probe for level and / or quality measurement in battery power supply

Connection of rain-gauges

Additional monitoring of access-controlled areas with SMS / eMail-alert via door contact on well-houses or equivalent

Connection of external sensors for water quality monitoring

Description:

To develop a universal Datalogger with integrated telemetry, which is simple and application-oriented in use. This goal was followed continuously during the complete development.

We discuss your application and configure the Datalogger already suitable for you so that you are more able to take it with only a few steps into operation. Whether a rain gauge, a flow meter, a third sensor for level or water quality measurement or HT sensor is to be connected, the unit is supplied ready-to-use, you focus with the automatically-adjusted operating program on the essentials in each of your stations.

The used electronic components in common with the sophisticated measuring circuit are enormous power efficient. The unit will enable an entire station on battery power to supply even with the specially designed waterproof batter casing for 3 alkaline D-cells. A battery life of two years, in spite of the connection of a flow meter, pressure sensor, a door contact monitoring including alarm operation and a continuous daily data transmission is easily accessible.

The GPRS Datalogger type 255-U is waterproof in the standard version. It can be directly installed without any extra enclosure or switching boxes. However, if an external power supply operation will be necessary HT takes over also the complete design and assembling of the switching boxes after your individual requirements.



The measured values are already provided suitable for further processing; an automatic importing and for further processing; an automatic importing and processing is possible for many applications, including for HT's Internet web platform HT Analytics or as ZRXP for an automatic import. Also for many other popular software products is a suitable import format available. Alternatively, the instrument also provides a ready-to-use Excel File.



Gauging station for surface water; Power supply with back-up battery, measurement recording interval every minute; data transmission in 15-minute intervals. In addition upon exceeding of configured water level limits data transmission will be automatically changed to 5-minute intervals.

Technical data / Device data	
Housing	Robust, waterproof aluminium housing, anodized; Dimensions: 185x100x53 mm
Data memory	2MB, for up to 190,000 data sets (depends on parameters)
Sample interval	1 minute to 99 days; Optional from 1 sec. (Feasibility depends on sensor)
Interface	RS232, connection via serial and USB
Accuracy clock	High-precision Real-Time-Clock RTC; automatic adjustment at each transfer
Operating temperature	-30°C to +70°C
Protection class	IP 66
Main power supply	6 ... 36 VDC
Backup power supply	3.3 ... 26 VDC for emergency power supply or general battery operation

Sensor connection	
1 Channel RS485	For up to 4 HT Sensors by integrated bus (Modbus)
1 analogue Channel, usable as	0 ... 20 mA / 4 ... 20 mA 0 ... 1 Volt / 0 ... 10 Volt
1 Impulse counter	Counter for max. 10 kHz for Flow-measurement, rain gauges and many other
1 Contact switch	For alarming, example door-contact
Remote transmission	
Cellular mobile radio	Standard: via GPRS by FTP-Server-communication; Ask for further transmission possibilities!
Data file-format	HT Standard; Excel; ZRXP; Labdüs, and many more... Our software department can create the desired file-format
Alarm functionality	Alarming when exceeding configured limits; Battery-alert; Alarm can be given by SMS, eMail and FTP-Status