

WATERLOGGER® 12

Telemetry station for data transfer from intelligent sensors
Leveloggers, rain gauge and 2 other analog sensors.



MAIN FEATURES

- Compact dimensions – can be placed inside the monitoring well head with a diameter ≥ 95 mm
- Durable housing IP65
- Operation without battery replacement, according to use, for up to 10 years
- Three-fold data back up
- Two-way remote communication GSM/GPRS
- Channelling data to user server or to internet application EnviroDATA®
- Changes station parameters through internet
- Optical communication with 2 water level sensors Levelogger (Solinst®, Canada)
- Automatic compensation of atmospheric pressure through built in sensor
- Possibility to connect 1 rain gauge and 2 more analog sensors
- Shielding of water level sensor of Levelogger from atmospheric discharge - Faraday cage
- Wireless data transfer to the user server or to an internet EnviroDATA® application
- Warning emails sent by EnviroDATA application if limit values or gradient are exceeded
- Possibility of averaging measured values
- Competitive price, software free of charge
- Warranty period: 24 months

ENVIRODATA®

- Web application for easy management of measured data from automatic telemetric measuring stations, equipped by remote data transmission system
- Comfortable access to data from any computer connected to internet
- Clear display of data in a table or graphs within a certain period of time
- Pre-processing of data, statistic functions and comparison of graphs
- Simple export of data for further processing
- Changes of station parameters through internet
- Demo for free trial



Telemetric stations WaterLogger®12 are devices for wireless data transfer from connected sensors to a user PC or server. The data parameters which can be transferred are: water level, water temperature, water electrical conductivity, barometric pressure, and rainfall. Moreover other sensors with standard analog or digital output can be connected. Communication is two-way using an integrated GSM modem. Wireless data transfer via internet to an e-mail address or FTP server is a method which does not require any additional equipment besides a PC.

Users who appreciate convenience can use our web database EnviroDATA® for configuring their telemetric stations and receiving and visualizing data.

WaterLogger® 12 is very energy-efficient due to minimal consumption of electricity (both in sleep mode and measuring mode). Therefore the WaterLogger® 12 can measure and send data many months in the field without charging or changing the internal battery.

WaterLogger® 12 has very small dimensions that allow installation directly to a monitoring well head with a diameter ≥ 95 mm, without the use of additional housing. Due to this WaterLogger® 12 does not attract the attention of vandals which significantly reduces the likelihood of damage or theft.

TECHNICAL SPECIFICATION	
Input sensor type	2 × Solinst water level sensor
Absolute sensor barometric pressure compensation	automatically by integrated barometric sensor
Digital input	1 (for example for rain gauge)
Analog inputs	2 × 0...2.5 VDC
Additional input	battery voltage, atmospheric pressure
Solinst Levelogger accuracy	0.1 % to 0.05 %
Measuring interval range	10...3600 s
Logging interval range	10...3600 s
Modem interval range	0...24 hr (data transfer)
Internal memory	512 kB for data
Internal modem	quad band GSM/GPRS modem
Data transfer method	two way wireless by email, FTP
Communication	1 × RS232 (service port)
Communication speed	300...115200 bps, 8N1
Time adjustment	automatic by time servers
Power supply	2 built-in 3.7V Li-ion batteries, 5200 mAh
Energy supply method	integrated charging system for solar panel 2 built-in 3.7 V Li-ion batteries, 5200 mAh
Installation	to a monitoring well head with a diameter ≥ 95 mm rechargeable battery 12 V
Dimensions	80 × 160 × 55 mm fits to a monitoring well head with a diameter ≥ 95 mm
Temperature range	-30 ... +60°C
Protection class	IP65