## 🖊 iLevel-GW Nano

# Groundwater datalogger

Groundwater | Water Level | Water Monitoring

## **General Description**

The iLevel-GW Nano is an absolute pressure groundwater data logger for measuring and storing water pressure and temperature. By means of a steel cable the iLevel-GW Nano is lowered in the water level pipe and fixed below the lowest water level.

The ultra low-power data logger records the measured values in adjustable measuring intervals with a runtime of up to 10 years (~2 million measurements). For data readout, the iLevel-GW Nano is pulled out of the measuring well and the data is conveniently read out via short-range radio using a laptop.

In the logger software (cloud application), the true water level is calculated from the recorded absolute water pressure and the barometric pressure. (Please note: The air pressure needed to calculate the water level is recorded with a barologger. Only one barologger is required for a measurement field.)

#### Operation

The iLevel-GW Nano, equipped with a sealed lithium battery, is optimized for low-power long-term use of up to 10 years and beyond. The data logger operates in a very low power mode and wakes up only for measurement or data readout by shortrange radio.

The autonomously working iLevel-GW Nano continuously stores water pressure, water temperature, and battery condition.

### **Applications**

The iLevel-GW Nano is the ideal measuring device for measuring campaigns where quick and easy installation is important. The programmed data logger is lowered into the measuring well with a steel cable and is immediately ready for use.

- Groundwater: Water pressure, air pressure and water temperature recording
- Water level in surface waters: Especially to be used in flood-prone areas (moors, flood plains), where differential pressure probes stop their service in case of flooding as the differential pressure opening is blocked by the overflowing water.

#### **Features**

- Made of stainless steel
- Dimensions optimized for insertion in pipes from 1" upwards
- Up to 10 years maintenance-free operation
- Data readout via 433 MHz short-range radio
- Absolute pressure logger / barologger same design









Specifications			
Measuring Ranges	– 0-2 bar => 0-2000 hPa – 0 - 10 mH2O, 0 - 20 mH2O, 0 - 90 mH2O – Other ranges on request		
Accuracy	Max. ±0.15 % FS (linearity best straight line at RT, hysteresis, repeatability)		
Long-term Stability	Typ. ±0.1 % FS, max. ±0.2 % FS (limited to max. ±3 mbar)		
Overload	4 x pressure range		
Communication	Local: 433 MHz, license-free ISM radio		
Power Supply	Lithium batteries 1xAA Mignon (up to 10 years operating time or ${\sim}2$ Mio measurements)		
Data Memory	2 MB memory up to 150.000 measurement series, non-volatile, storage cycle freely-definable		
Operating Temperature Range	Operating range -5 °C (only in liquid media) to +80 °C		
Material	Stainless steel 316 L / 1.4435		
Dimensions (Ø x H)	24 mm x 210 mm		
Conformity / Compliance	CE		

## Accessories

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**Well caps**: with hex nut, aluminium, weatherproof, frost-proof, corrosion resistant, various styles and sizes

- ium, rosion **USB d** radio i es tion
- **USB dongle**: 433 MHz near field radio interface for local connection

**Suspension cable**: steel cable Ø1mm

Please ask for details.





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