



The TD-Diver is a submersible datalogger for long-term uninterrupted, real-time water level monitoring using a pressure sensor when submerged at a fixed level under the water surface.

The pressure sensor measures the equivalent hydrostatic pressure of the water above the sensor diaphragm to calculate the total water depth.

It autonomously measures pressure and temperature and records them in its internal memory. The Diver is ideal for ground and surface water level applications.

Applications

- Long-term water level monitoring
- Groundwater monitoring projects
- Groundwater monitoring network automation
- Watershed, drainage basin and recharge areas
- Stream gauging, lake levels and reservoirs
- Wetlands and stormwater run-off monitoring

Features

- Compact size: Ø 22 mm – length 110 mm
- Memory: 72,000 records of time stamp, pressure and temperature with backup
- Continuous and fixed length memory

Specifications	
Length	110 mm
Diameter	22 mm
Weight	104 g
Memory	72,000 measurements – continuous and fixed length memory (including 72,000 as backup)
Battery Life	Up to 10 years (depending on usage)
Sample Interval	0.5 seconds to 99 hours
Sample Method	Fixed interval
Communication	RS232

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Wetted Parts	
Housing	Stainless Steel (316L)
O-rings	Viton®
Pressure sensor	Piezoresistive ceramic with thermal compensation
Weight Cap	Nylon PA6 30% glass fibre
Nose Cone	ABS

Pressure				
Model	11110402	11110404	11110406	11110408
Range	10 mH ₂ O	20 mH ₂ O	50 mH ₂ O	100 mH ₂ O
Accuracy*	± 0.5 cmH ₂ O	± 1.0 cmH ₂ O	± 2.5 mH ₂ Oc	± 5.0 cmH ₂ O
Resolution	0.06	0.09	0.19	0.36

Temperature	
Range	- 20 to + 80 °C
Calibrated	0 to 50 °C
Accuracy*	± 0.1 °C
Resolution	0.01 °C

* typical accuracy