



METER

HYDROS-21 GEN-2 CONDUCTIVITY-TEMPERATURE-DEPTH SENSOR



No need for costly extra sensors

A compact 3.4 cm diameter water level sensor that fits into tight spaces, HYDROS-21 Gen-2 is a low-cost, durable, and easy-to-use tool for monitoring EC, temperature, and depth in both groundwater and surface water. More importantly, it's an all-in-one instrument. When used with the ZL6 data logger or any other logging system, you won't require an additional sensor for measuring and referencing barometric pressure. With a range of 0 to 120 dS/m and a measuring depth of 10 m, the sensor makes accurate depth and EC measurements for a broad range of applications.

Water level sensor with easy, research-grade data in real time

One of the qualities that makes HYDROS-21 Gen-2 water level sensor so easy to use is its fast plug-and-play compatibility with the ZL6 data logger (also compatible with Campbell Scientific data loggers). Plus, with the ZL6, you can monitor and remotely access cloud data wirelessly from any internet-connected computer or device in near-real time.

Affordable, accurate, and reliable

While engineering HYDROS-21 Gen-2 water level sensor, we wanted to design a water level sensor that was not only highly accurate but also provided a high degree of value. Because of its low-complexity, low-maintenance, and low-cost design, you can be assured you're getting an instrument that will save you time, hassle, and money.

Features

- Continuously monitor groundwater and surface water level changes
- Vented sensor means no need for an additional sensor to measure and reference barometric pressure
- Integrated electrical conductivity and temperature measurement
- 3.4 cm diameter sensor that fits into tight spaces
- Low cost
- Durable
- Easy to use



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Specifications

MEASUREMENT SPECIFICATIONS

Temperature	Range: -11°C to 49°C Resolution: 0.1°C Accuracy: ±1°C
Bulk electrical conductivity (ECb)	Range: 0-120 dS/m Resolution: 0.001 dS/m Accuracy: ±0.01 dS/m or ±10%, whichever is greater Note: Measurement is corrected to a standard temperature of 25°C.
Water depth	Range: 0 to 10,000 mm Resolution: 1 mm Accuracy: ±0.25% of full scale at 20°C Note: Assuming no abrupt temperature variations.

COMMUNICATION SPECIFICATIONS

Output	DDI serial or SDI-12 communication protocol
Data logger compatibility	METER ZL6 data loggers and any data acquisition system capable 3.6-15.0 VDC power and serial or SD-12 communication

PHYSICAL SPECIFICATIONS

Dimensions	Diameter: 3.4 cm Length: 9 cm
Cable length	10 m (standard) 40 m (maximum custom cable length)
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
Operating Temperature Range	Minimum : 0°C Maximum : 50°C

ELECTRICAL AND TIMING CHARACTERISTICS

Supply voltage (VCC to GND)	Minimum: 3.6 VDC Maximum: 15 VDC
Measurement duration	Typical: 350 ms Maximum: 500 ms
COMPLIANCE (CE Mark)	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010



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