HydroTemp Water Temperature Sensor

SUBMERSIBLE WATER TEMPERATURE SENSOR

Highlights

- Scientific-grade accuracy
- Measures water, liquid, or soil temperature
- Single temperature sensor and multi-depth version with up to 16 sensors
- Low power consumption
- RS-485 Modbus, SDI-12, and RS-232 interface available on all instruments



Applications

- River and channel temperature monitoring
- Oceanographic multi-depth temperature measurement
- Water temperature supervision for aqua culture farming
- Ecology water temperature monitoring
- Multi-depth temperature sensor perfect for thermoclime observation

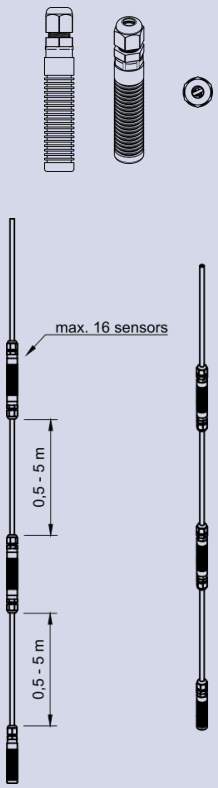
Product Description

The Geolux HydroTemp sensor comes as a single sensor or a multi-sensor array version for immersion into the water or soil to measure temperature in a single or multiple depths. Both variants have standard RS-485 Modbus and SDI-12 interfaces for easy integration with Geolux and third-party dataloggers.

It is possible to connect up to 16 sensors in the multi-depth configuration with customizable distance between the sensors.

The HydroTemp sensor has a high accuracy of 0.1 °C and a resolution of 0.01 °C for temperatures ranging from -20 °C to +70 °C, and a fast temperature change response due to the aluminum enclosure.

Detailed Specifications



Sensor Type	Digital MEMS (meets ASTM E 1112 and ISO 80601-2-56)
Measurement Range	-20 °C to +70 °C
Resolution	0.01 °C
Accuracy	0.1 °C in whole operating range
IP Rating	IP68
Enclosure Type	Anodized aluminum
Communication Interfaces	1 x RS-485 Modbus RTU 1 x SDI-12
Input Voltage	9 to 27 VDC
Power Consumption	0.15 W operational 0.055 W standby
Enclosure Dimensions	Φ16.5 mm x H 90 mm
Maximal Peak Current	< 100 mA
Multi Depth Sensor	Up to 16 sensors on single line
Maximum Water Depth	150 m

FCC & CE ***APPROVED***

MADE IN ***EU***

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