

DATASHEET

CTD100

Geolux

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CONDUCTIVITY – TEMPERATURE – DEPTH SENSOR CTD100

- Accurate multi-parameter measurement of water parameters
- Robust stainless steel 316L enclosure
- Low power consumption

Applications

- Hydrological monitoring and flood early warning systems
- Agrometeorological research and applications
- Irrigation management and control

Product Description

CTD100 is a pressure-type hydrological and water quality measuring instrument with good stability, high precision, low power consumption, small size and full functions. The product uses a high-precision and high-stability pressure sensor as the pressure sensing element. The output data undergoes internal intelligent linear correction and temperature compensation, which meets the demand for high precision and high stability of the product. It is suitable for measuring seawater and fresh water, surface water, groundwater and in marine environments.

The electroconductivity measurement uses four-electrode technology. Compared with the traditional two-electrode conductivity sensor, it has higher accuracy, wider measurement range and excellent stability.

The four-electrode conductivity sensor completely solves the polarization problem in high conductivity test; it also solves the problem of inaccurate readings caused by electrode contamination.

Detailed Specifications

Model Name	CTD100
Conductivity Measurement Range	0 – 40 ms/cm
Conductivity Measurement Accuracy	±1%
Water Level (Depth) Measurement Range	0 – 25 m
Water Level (Depth) Measurement Accuracy	±0.1 %FS or ±2% of current measurement whichever is lower
Temperature Measurement Range	0 – 60 °C
Temperature Measurement Accuracy	± 0.1 °C
Power Supply	12 – 30 VDC
Power Consumption	< 0.12 W in active mode < 0.06 mW in sleep mode
Power Input Protection	Reverse power protection, surge protection
Data Interface	RS-485
Data Protocol	Modbus-RTU
Cable Length	25 m
Enclosure Material	316L stainless steel
Enclosure Rating	IP68