



Applications

CGEO-TEM2 Temperature Sensor is designed for measuring temperatures.

Description

CGEO-TEM2 temperature sensor is based on the thermo-resistance and supplied inside a housing at the end of a cable ready to be attached to a structure, or buried in concrete or in the ground.

The temperature can be read directly by CGEO-RO-VW Readout.

Key Features

- ◆ Accurate and robust with good long-term stability
- ◆ Suitable for manual or remote reading and data logging
- ◆ Strong, screened and flexible cable

Operation

Thermistor Probes are particularly well suited for measuring the heat of hydration in concrete and RCC dams.

Thermistors have a negative temperature coefficient (NTC) where their resistance decreases with increasing temperature. The NTC can be as large as several percent per degree C, which allows the thermistor to detect minute changes in temperature. Thermistors are very small, which means they will respond quickly to temperature changes.

Thermistors have a non-linear output that can be represented by the Steinhart-Hart Equation.



Main Specifications

Model	CGEO-TEM2
Range	-30 to + 80°C
Resolution	0.1°C
Accuracy	±0.2°C, ±0.5°C can be selected
Resistance	3KΩ@25°C
Yearly Stability	≤0.1%
Insulated Resistance	≥100MΩ
Voltage Resistance	1500V
Dimension	Φ12mm×60mm



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