TH Series - Thermistor string

Temperature Sensor—TH-C

RELIABLE & SENSITIVE
ROBUST CONSTRUCTION
VARIOUS CONFIGURATIONS AVAILABLE

Temperature sensor series TH-C provides reliable means to monitor temperature at various locations in boreholes, dam embankments, landfills, levees.

Description

The Model TH-C thermistor string consists of a multi-conductor cable with individual temperature sensors distributed along its length. The string can be attached to a structure, or buried in concrete or in the ground. The temperature sensors consist of reliable 3 kohms thermistors. The resistance change of these sensors being high, correction for cable lengths are normally not required, unless higher accuracies are required. Standard cable employed is a heavy duty, direct-burial rated, PVC jacketed, 22 gauge cable.

The thermistor strings are customized according to user needs. Please refer to the ordering information for the different options.

Readings can be obtained with an MB-3TL readout box (directly in degree Celsius), a digital ohmmeter (in ohms), or a data acquisition system.

Key Features

- Available in various configurations
- Reliable & sensitive
- Rugged
- Up tp 20 sensors on a single cable
- Minimum spacing: 250mm
- Bending radius: 18mm

Applications

- Levees
- Landfills
- Boreholes
- Dam embankments

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Temperature Sensor

Specifications

MODEL	TH-C
Range*	−40 to + 80°C
Accuracy	±0.15°C at 0°C
Resolution	Depends on readout
Sensor	3 kΩ resistor
Cable	IRC-82A for 4 to 7 thermistors
Sensibility —	<0.1% F.S.

* Temperature range of cable must be considered (e.g. −20 to +80°C for the IRC)

Ordering Information

Please specify:
- Model of temperature sensor
- Cable length and type

Optional Accessories

- Armored cable
- Readout instruments

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