

TE-01



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model TE-01

TEMPERATURE GAUGES

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description

Temperature is a very important parameter to control for evaluating the influence of the thermal effects on the measurements and on the structure which is monitored.

Thermometers are available with NTC sensing elements. All models are housed in a shock resistant stainless steel body to be embedded in concrete. NTC (Negative Temperature Coefficient) is a sensor created with semiconductors made from metal oxides (iron, cobalt and nickel). The resistance of the sensor in an NTC thermistor lessens as the temperature rises, according to a decreasing exponential curve.

Temperature string probe is available for multiple thermal measurements in boreholes, trenches or to be embedded into concrete.



application

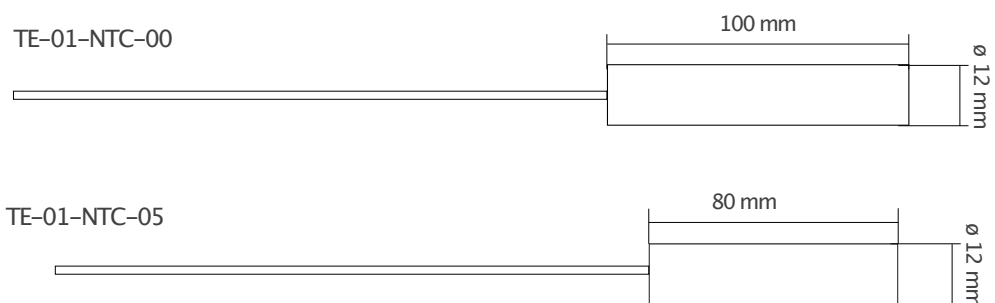
- Arch and gravity dams
- Bridges and viaducts
- Piles
- Steel structures
- Wells
- Geothermal profiling
- Readings' thermal compensation

features

- High reliability for long term projects
- Ready for concrete embedding
- High accuracy
- Easy to use and embed

temperature gauge model te-01

	TE-01-NTC-00	TE-01-NTC-05
Measuring principle	NTC	NTC
Resistance	3kOhm @25°C	3kOhm @25°C
Nominal range	-55°C to 150 °C	-40°C to 125 °C
Resolution	0.1°C	0.1°C
Accuracy	+/-0.5°C from -10°C to 80°C	+/-0.5°C from 0°C to 50°C
Diameter	12 mm	12 mm
Length	100 mm	80 mm
Material	Stainless steel	Stainless steel
Temperature Range	-30°C to 80 °C with standard cable	-20°C to 70 °C with standard cable
IP Class	IP 68	IP 68
Signal cable	UP 18124 D 6 mm	UP 18124 D 6 mm





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