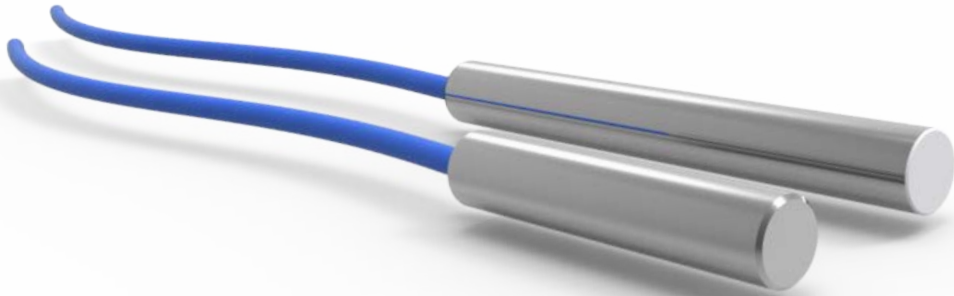


T111

# TEMPERATURE GAUGES

STRAIN GAUGES  
& THERMOMETERS



## TEMPERATURE GAUGES

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 platinum RTD (Resistance Thermal Detector) thermistor or vibrating wire sensors. All models are housed in a shock resistant stainless steel body to be embedded in concrete.

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

### APPLICATIONS

- 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
- Built-in model available for installation inside Sisgeo's instrument



Meet the essential requirements of the EMC Directive 2004/108/EC

## EMBEDMENT THERMOMETERS



	MODEL 0T3800GKA00 	MODEL 0T111PT1000 	MODEL 0T2200VW000  (Only on request)
Measuring principle	NTC, thermistor	RTD, 100Ω (PT-100) (Class A EN60751)	Vibrating wire + NTC
Nominal range	-40°C +125°C	-200°C +400°C	-20°C +80°C
Resolution	0.1 °C	0.1 °C	0.1 °C
Accuracy	±0.5 °C (from 0°C to 50°C)	±0.2 °C @ 0°C	±1.0 °C
Diameter	12 mm	20 mm	20 mm
Length	55 mm	100 mm	166 mm
Material	stainless steel	stainless steel	stainless steel
Temperature range	-30°C +80°C with standard cable	-30°C +80°C with standard cable	-30°C +80°C with standard cable
IP Class	IP68 up to 2.0 MPa	IP68 up to 2.0 MPa	IP68 up to 2.0 MPa
STANDARD SIGNAL CABLE	0WE104SG0ZH	0WE104K00ZH	0WE104K00ZH

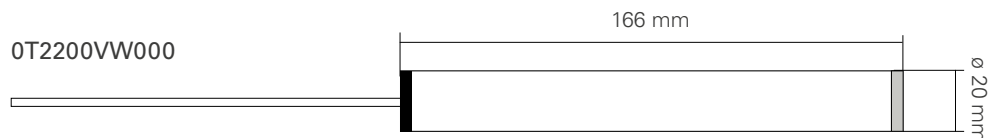
0T3800GKA00



0T111PT1000



0T2200VW000



## ACCESSORIES AND SPARE PARTS

### BUILT-IN THERMISTOR 0ELT38NTC00

NTC thermistor sensor (2-wires) to be installed inside any Sisgeo instrument. It provides temperature data for thermal compensation.

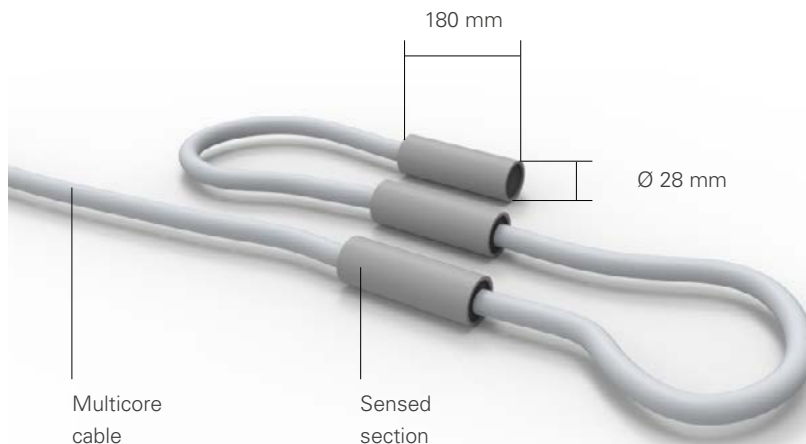
### BUILT-IN RTD PT-100 0ELT100PT00

PT-100 resistance temperature detector sensor (4-wires) to be installed inside any Sisgeo instrument. Useful for high-accuracy thermal data compensation.

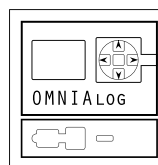
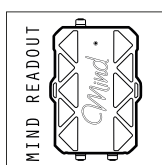
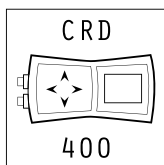
## TEMPERATURE STRING

Temperature string is composed by a number of thermistor or PT-100 sensors mounted on multicore cable. Length of cable and sensor distances are assembled according to customer requirements.

	MODEL OTS00NTC000	MODEL OTS00RTD000
Type of sensor	NTC thermistor	RTD 100 Ω (PT-100) (Class A EN60751)
Number of sensors	4, 8, 12, 16	4, 8
Nominal range	-40°C +125°C	-200°C +400°C
Accuracy	±0.5 °C (from 0°C to 50°C)	±0.2 °C @ 0°C
Sensed section	PVC length 180 mm Ø 28 mm	PVC length 180 mm Ø 28 mm
Temperature range	-30°C +80°C with standard cable	-30°C +80°C with standard cable
IP Class	IP68 up to 2.0 MPa	IP68 up to 2.0 MPa
STANDARD MULTICORE CABLES	0WE1160LSZH (No. 4 or 8 measuring points) 0WE1320LSZH (No. 12 or 16 measuring points)	0WE1160LSZH (No. 4 measuring points) 0WE1320LSZH (No. 8 measuring points)



## READABLE BY



For further information refer to their own datasheets

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### ADDITIONAL SUPPORT

SISGEO offers on-line assistance service to the Customers in order to maximize the performance of the system and training on the correct use of the instrument/readout.

For more information contact mail: [assistance@sisgeo.com](mailto:assistance@sisgeo.com)