



THERMOMETERS

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 probes. 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, trenches or to be embedded into concrete.

Temperature measurements of soil, rock, civil structures or other materials to assess thermal effects

Temperature measurement and monitoring in concrete during curing (for example during dam construction)

Water temperature measurement in boreholes, wells and tanks

Monitoring thermal drift effects on electrical transducer measurement (Temperature compensation is often required on many electrical transducers)

THERMOMETERS

TEMPERATURE READOUT

CRD-400 multipurpose readout

Type of measure	°C (RTD, thermistor and VW)
Display	TFT LCD with LED backlight unit, 320x240 pixel 3.5", sunlight reliability
A/D converter	24-bit Sigma-Delta
Accuracy	0.01% FS
Internal battery	rechargeable 4x1.2 V-1Ah Ni-Cd
Environmental	IP67, -20°C to +60°C



Temperature readings on all type of thermometers can be taken using a small multipurpose readout, able to read and show data in electric unit (K Ω) or directly in °C.

TECHNICAL SPECIFICATIONS



OT3800GKA00

Model	OT111PT1000	OT3800GKA00	OT2200VW000
Type of sensor	RTD, 100 Ω (Class A EN60751)	NTC, thermistor YSI 44005	Vibrating Wire
Range	-50°C +80°C	-50°C +80°C	-20°C +80°C
Resolution	0.1 °C	0.1 °C	0.1 °C
Accuracy	0.2 °C	0.5 °C	\pm 0.5 °C
Diameter	20 mm	12 mm	27 mm
Length	100 mm	55 mm	200 mm
Material	Stainless steel		
Electric cable	OWE104VWK00	OWE104VWS00	OWE104VWK00

Readouts CRD-400 or NEW LEONARDO

Please refer to the readout technical data sheets for further information.

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	OTS00RTD000
Type of sensor	NTC thermistor YSI 44005	RTD 100 Ω (PT-100)
Number of sensor	4, 8, 12, 16	4, 8
Temperature range	-50°C +80°C	
Resolution	0.1°C	
Accuracy	0.5°C	0.2°C
Sensed section	\emptyset 20mm, length 150mm	
Cable	OWE11600000	OWE13200000
Layout	8-twisted pairs, 24 AWG	16-twisted pairs, 24 AWG
Conductor	soft tinned copper	
Inner jacket	polyethylene	
Outer jacket	PVC	

