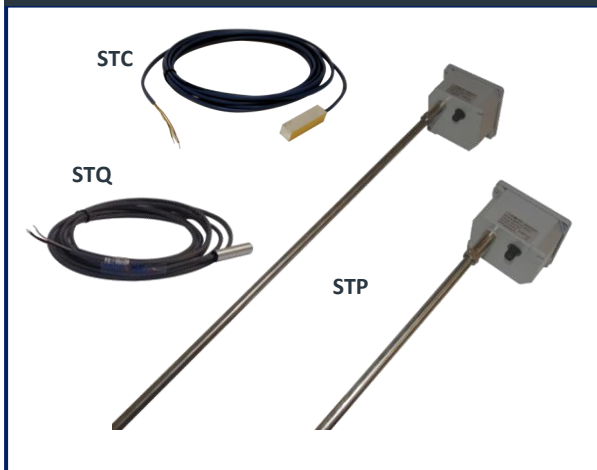


STQ, STC, STP – THERMOMETERS FOR: soil/water dipping, biocompost, contact (walls, photovoltaic panels, etc..) (Rev.2 011020)



Description

Thermometers ST series are probes for temperature measuring with Pt100 1/3DIN platinum thermistor (100Ω@0°C).

These sensors are equipped with shielded water proof cable that allows their use in several applications such as dipping in the water, in the soil or in other environmental, meteorological and industrial applications.

The sensors ST are available in two versions: natural 4 wires Pt100 output (Vers. -N) or 4...20mA analog output (Vers. -I).

Advantages

- ✓ Versatility of use
- ✓ Mechanical ruggedness
- ✓ Reliability
- ✓ Lifetime

STC – Contact temperature probe for walls and photovoltaic panels



Technical Specs

Models	STC-N	STC-I
Applications	Walls, surfaces and photovoltaic panels temperature	
Measuring Range	-50...+100 °C	-40...+80 °C (other ranges on request)
Transducer	Pt100 1/3DIN Temperature	
Electrical output (other on request)	4 wires Pt100	4...20mA
Power supply	none	+9...24Vdc
Consumption	1mA (ref.)	4...20mA
Accuracy	±0.1°C	±0.2°C
Repeatability	±0.1°C	
Long term stability	<0,01°C/year	
Response time (63%)	<3s	
Maintenance	None	
Working Temperature	-50...+85°C	
Cable	Shielded, L=3m (other lengths on request)	
Electrical Connection	Red: High Pt100 I+ (1mA) Whyte: High Pt100 V+ Green: Low Pt100 V- Gray+shield: Low Pt100 Gnd	Red: +Vdc Whyte: +Iout Gray+Shield: Gnd
Materials	Aluminium	Aluminium (probe) Polycarbonate (4...20mA Amplifier housing)
Dimensions and weight	Probe 15x15x50mm, 30g (cable excluded)	Probe 15x15x50mm, 30g (cable excluded) 4...20mA Amplifier housing: 65x50x35mm, 50g
Protection	Probe: IP68	Probe: IP68 4...20mA Amplifier housing: IP65

STQ e STP – Dipping water/soil and biocompost temperature probes

Technical Specs for both models STQ and STP

Models	STQ-N STP-N	STQ-I STP-I
Measuring Range	-50...+100 °C	STQ: -40...+60 °C (other ranges on request) STP: -20...+100 °C (other ranges on request)
Transducer	1/3DIN Pt100 Temperature	
Electrical output (other on request)	4 fili Pt100	4...20mA
Power supply	none	+9...24Vdc
Consumption	1mA (ref.)	4...20mA
Accuracy	±0.1°C	±0.2°C
Repeatability	±0.1°C	
Long term stability	<0,01°C/year	
Response time (63%)	<3s	
Maintenance	none	
Working Temperature	-50...+85°C	
Cable	Shielded, L=10m (other lengths on request)	
Electrical Connection	Red: High Pt100 I+ (1mA) White: High Pt100 V+ Green: Low Pt100 V- Gray+shield: Low Pt100 Gnd	Red: +Vdc White: +Iout Gray+Shield: Gnd

STQ probe - Technical Specs



Models	STQ-N	STQ-I
Applications	hydrology (subsoil and surface water, marine, ecc...), Agrometeorology, dam measures, dump, forestry	
Materials	AISI304 Stainless steel (AISI316 on request)	AISI304 Stainless steel (AISI316 on request) and Polycarbonate (4...20mA housing amplifier)
Dimensions and weight	Probe ø13x50mm, 30g (cable excluded)	Probe ø13x50mm, 30g (cable excluded) 4...20mA housing amplifier: 65x50x35mm, 50g
Protection	Probe: IP68	Probe: IP68 4...20mA housing amplifier: IP65

STP probe - Technical Specs



Models	STP-N	STP-I
Applications	Bio-filters, bio-compost, dumps monitoring	
Materials	AISI304 Stainless steel (AISI316 on request)	AISI304 Stainless steel (AISI316 on request) and Polycarbonate (4...20mA housing amplifier)
Dimensions and weight	Probe ø5-12mm x 1-2m, 1kg/mt (cable excluded)	Probe ø5-12mm x 1-2m, 1kg/mt (cable excluded) 4...20mA housing amplifier: 65x50x35mm, 50g
Protection	Probe: IP68 Junction box: IP65	Probe: IP68 4...20mA Junction box: IP65