

STQ_RK, STC_RK, STPI THERMOMETERS FOR: soil/water dipping, biocompost, contact (walls, photovoltaic panels, etc...) (Rev.5 081026)



Description

Thermometers ST series are probes for temperature measuring with Pt100 A Class platinum thermistor (100Ω@0°C).

These sensors are equipped with shielded waterproof 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 with 4...20mA analog output (Vers. – I).

Advantages

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

STC_RK technical data – Contact temperature probe for walls and photovoltaic panels

Models	STC-I_RK
Applications	Walls, surfaces and photovoltaic panels temperature
Measuring Range	-40...+80 °C (other ranges on request)
Transducer	Class A Pt100 thermometer
Electrical output (other on request)	4...20mA
Power supply	+12...24Vdc
Consumption	4...20mA
Max load resistance @12Vdc	100 Ohm (shunt)
Accuracy	±0.5°C
Mounting	With thermal paste and special adhesive tape
Working temperature	-50...+85°C
Housing	AISI304 stainless steel (probe) Polycarbonate (4...20mA Amplifier housing)
Dimensions and weight	Probe 19x7,5x3,5mm, 30g (cable excluded) 4...20mA Amplifier housing: ø27x103mm, 70g
Protection degree	Probe: IP68 4...20mA Amplifier housing: IP65
Cable	Shielded, L=10m (other lengths on request)
Electrical connection	Red: +Vdc Green or yellow: +Iout Black: Gnd

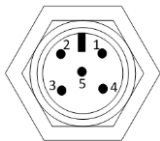


STQ_RK technical data – Dipping water/soil temperature probes

Models	STQ_RK-I
Applications	hydrology (subsoil and surface water, marine, ecc...), Agrometeorology, dam measures, dump, forestry
Typical measuring Range	0...+30 °C (other ranges on request)
Transducer	Class A Pt100 thermometer
Electrical output	4...20mA
Power supply	+12...24Vdc
Consumption	4...20mA
Max load resistance @12Vdc	100 Ohm (shunt)
Accuracy	±0.5°C
Working temperature	-50...+85°C
Max working depth	50m
Housing	AISI316 Stainless steel
Dimensions and weight	Probe ø27x115mm, 145g (cable excluded)
Cable	Shielded, L=10m (other lengths on request)
Electrical connection	Red: +Vdc Green: +Iout



STPI technical data – Dipping biocompost temperature probes

Models	STPIx-I
Applications	Bio-filters, bio-compost, dumps monitoring
Typical measuring Range	-20...+100 °C (other range on request)
Transducer	Class A Pt100 thermometer
Electrical output	4...20mA
Power supply	+12...24Vdc
Consumption	4...20mA
Max load resistance @12Vdc	100 Ohm (shunt)
Accuracy	±0.2°C
Maintenance	none
Working temperature	-50...+85°C
Housing	AISI304 stainless steel (AISI316 on request): rod and housing amplifier
Protection degree	Probe: IP68 4...20mA housing amplifier: IP65
Dimensions	- Probe: ø5-12mm, L=1 or 2m to specify in the code STPIx where x=1 or 2m (eg.: STPI1 = probe with 1m rod) 4...20mA housing amplifier: 65x50x35mm
Weight	- Probe: 1kg/mt 4...20mA housing amplifier: 50g
Electrical connection	 - Pin1: Iout+ - Pin2: - Pin3: - Pin4: Gnd - Pin5: +Vdc (12...24Vdc)

