# Thermometers for Pt100 RTD probes

The XS thermometers Pt100 RTD, are studied from an ASIC (Application Specific Integrated Circuit) microprocessor which offers numerous innovative features while maintaining, at the same time, an easy to use interface.

Good quality / price ratio, ideal for temperature measurements in the laboratory and in the field.

Temp 7 Basic For Pt100 RTD probes from -200 to + 999 °C
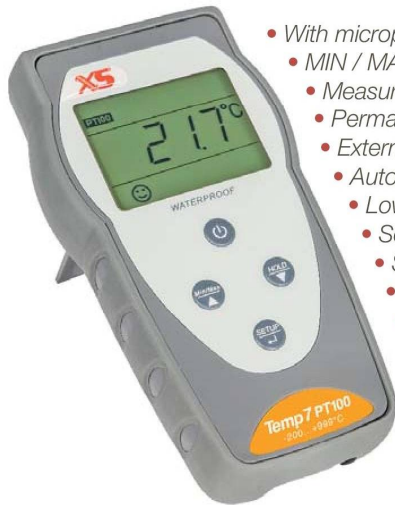
- With microprocessor
- MIN / MAX values
- Measurement stability indicator
- Permanent memory
- Externally calibratable
- Auto power-off and hold function
- Low battery indicator
- Self diagnosis messages
- Splash-proof IP56 protection
- Protective boot in rubber with support
- Certifiable from National metrology center

Splash-proof keypad

Probe connector

How to select right temperature probe for your application

On temperature measure, first selection is based at type of temperature probe. When temperature probe is selected thermometer model is linked.

Pt 100: very accurate temperature probe, with high linearity. Indicated as primary thermometer and for very accurate measure. Medium speed response. Suitable for negative value until -200°C . Suggested for laboratory application or laboratory reference.

NTC: accurate in short range of temperature: -50..+150°C. Simple and basic application as food , HAVC or general temperature measure. Medium speed response.

K thermocouple: large range of temperature applications up to 1.100°C. Most suggested for high temperature value over 300°C. Very fast response and very flexibility on construction: small size available for special application. Negative temperature value reading for short time. Suggest for all industrial application where is necessary large range of measure.

T thermocouple: short range of temperature applications up to 300°C. Very fast response and very flexibility on construction: small size available for special application. Negative temperature value reading without any problem. Suggest for all pharmaceutical and food application.

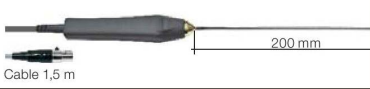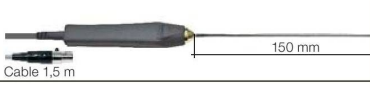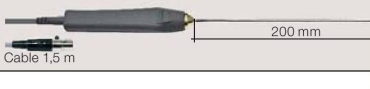Temperature measurement in air conditioning system

Perfect for food application

How to order	
Code	Description
50011012	**Temp 7 RTD** Portable thermometer for PT 100 RTD probes, provided **without** temperature **probe**. Complete with carrying case.

PT 100 PROBES FOR THERMOMETERS Temp 7 RTD – Temp 70 RTD

Code	Model	Design	Tip	Measuring range °C	Certification range °C	t₉₀ sec.	Precision class
51000202	PT56L	200 mm / Cable 1,5 m	Ø3 liquid/air	-50 +400	-50 +300	30	A
51000212	PT56C	200 mm / Cable 1,5 m	Ø5 contact	-50 +400	-50 +300	120	A
51000222	PT56P	150 mm / Cable 1,5 m	Ø4 penetration	-50 +400	-50 +300	60	A
51000232	PT56A	200 mm / Cable 1,5 m	Ø4 air	-50 +250	-50 +150	60	A
51000242	PT56L 1/5 DIN	200 mm / Cable 1,5 m	Ø3	-50 +400	-50 +300	30	1/5 DIN
51000252	PT56 TFE	100 mm / Cable TEFLON/TEFLON 3 m IDEAL FOR OVENS AND FREEZERS	Ø4	-100 +300	-100 +250 CABLE INCLUDED	30	A
51000262	PT56/500	500 mm / Cable 1,5 m	Ø6	-50 +400	-50 +300	60	A
51000272	PT56/1000	1000 mm / Cable 1,5 m	Ø6	-50 +400	-50 +300	60	A

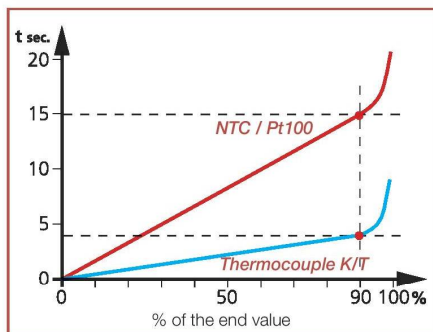**Other models of PT100 probes avaialabe on request**

Particular of the grip

Model of the probe

Serial number of the probe essential for certification from the National metrology center

Response time for the probe immersed in a liquid

Specifications of the precisions

Sensor	Measuring range of temperature	Precision Class	Max tollerance refered to the temperature
Thermocouple Tipo K	-60…+1200 °C	1	±1,5 °C or 0,4% T*
Type T	-40…+350 °C	1	±0,5 °C or 0,4% T*
Thermistor NTC	+25…+85 °C / -40…+125 °C	-	±0,5 °C / ±1 °C
Pt100	-100 °C / +0 °C / +100 °C / +200 °C	class A	±0,35 °C / ±0,15 °C / ±0,35 °C / ±0,55 °C
Pt100	-100 °C / +0 °C / +100 °C / +200 °C	class 1/5	±0,16 °C / ±0,06 °C / ±0,16 °C / ±0,26 °C

T*=Measured Temperatura. Consider always the bigger error