

TP473P.0: Penetration probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 150 mm. Cable 2 meters long.

TP474C.I: Contact probe, Wire Wound Pt100 sensor. Stem Ø 4mm, length 230mm, contact surface Ø 5mm. Cable 2 meters long.

TP474C.O: Contact probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 230mm, contact surface Ø 5mm. Cable 2 meters long.

TP475A.O: Air probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 230mm. Cable 2 meters long.

TP472I.5: Penetration probe, Thin Film Pt100 sensor. Stem Ø 6mm, length 500 mm. Cable 2 meters long.

TP472I.10: Penetration probe, Thin Film Pt100 sensor. Stem Ø 6mm, length 1000mm. Cable 2 meters long.

TP49A.O: Immersion probe, Thin Film Pt100 sensor. Stem Ø 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AC.O: Contact probe, Thin Film Pt100 sensor. Stem Ø 4 mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AP.O: Penetration probe, Thin Film Pt100 sensor. Stem Ø 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP875.I: Globe thermometer Ø 150 mm with handle. Wire Wound Pt100 sensor complete of SICRAM module. Cable 2 meters long.

TP876.I: Globe thermometer Ø 50 mm with handle. Wire Wound Pt100 sensor complete of SICRAM module. Cable 2 meters long.

TP87.O: Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70 mm. Cable 2 meters long.

TP878.O: Contact probe for solar panels. Thin Film Pt100 sensor. Cable 2 meters long.

TP878.1.O: Contact probe for solar panels. Thin Film Pt100 sensor. Cable 5 meters long.

TP879.O: Penetration probe for compost. Thin Film Pt100 sensor. Stem Ø 8 mm, length 1000mm. Cable 2 meters long.

Temperature probes without SICRAM module

TP47.100.0: Immersion probe, Thin Film Pt100 sensor probe. Stem Ø 3 mm, length 230mm. 4 wires connection cable with connector, 2 meters long.

TP47.1000.0: Thin Film Pt1000 sensor immersion probe. Stem Ø 3 mm, length 230mm. 2 wires connection cable with connector, 2 meters long.

TP47: Only connector for probe connection without SICRAM module: direct 3 and 4 wires Pt100, 2 wires Pt1000.

TP87.100.0 Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70mm. Cable 2 meters long. 4 wires connection cable with connector 1 meter long.

TP87.1000.0 Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70mm. Cable 2 meters long. 2 wires connection cable with connector 1 meter long.

TEMPERATURE PROBES

Pt100 SENSOR PROBES $\alpha=0.00385\text{ }^{\circ}\text{C}^{-1}$, $R_0 = 100\ \Omega$

Depending on the manufacturing technology of the Platinum sensing element, there are two categories of Pt100 sensor probes:

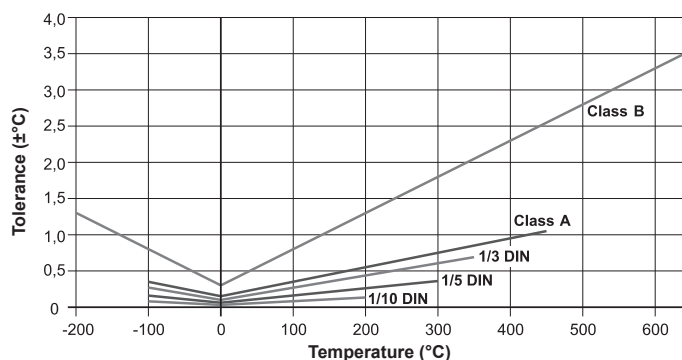
- **Wire Wound** probes : identified by the letter **I** in the ordering code;
- **Thin Film** probes : identified by the letter **O** in the ordering code.

The best performances are obtained by using the wire wound probes, characterized by a very low long-term drift compared to the thin film probes. **The measuring uncertainty of the probes with SICRAM module can be improved with a calibration Report or an ACCREDIA calibration certificate.**

Tolerance Classes

Reference standards:

- **DIN 43760 : 1980**
- **IEC 60751 : 2008**
- **BS EN 60751 : 2008**



IEC nomenclature	DIN nomenclature	Temperature range of validity of the tolerance class		Tolerance at 0 °C
		wire wound sensor	thin film sensor	
W0.03 ^(*)	1/10 DIN	Not defined by the standard	Not defined by the standard	± 0.03 °C
W0.06 ^(*)	1/5 DIN	Not defined by the standard	Not defined by the standard	± 0.06 °C
W0.1	1/3 DIN	-100...+350 °C	0...+150 °C	± 0.1 °C
W0.15	Class A (1/2 DIN)	-100...+450 °C	-30...+300 °C	± 0.15 °C
W0.3	Class B (DIN)	-196...+660 °C	-50...+600 °C	± 0.3 °C

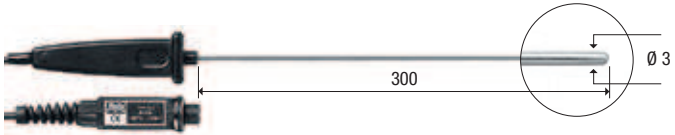
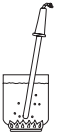
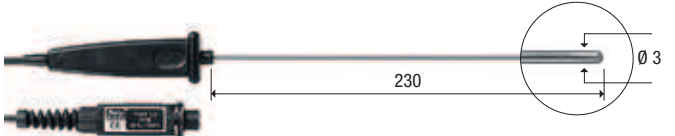
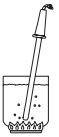
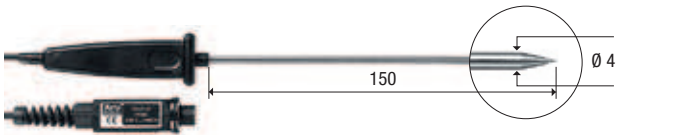
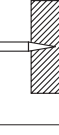
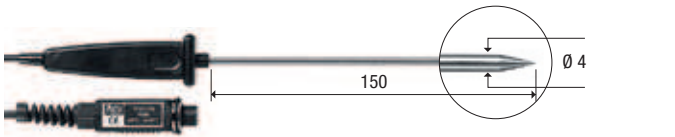
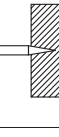
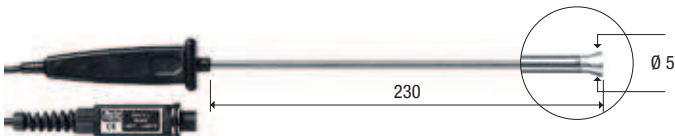
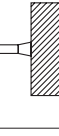

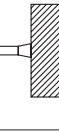


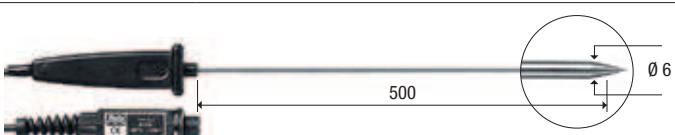

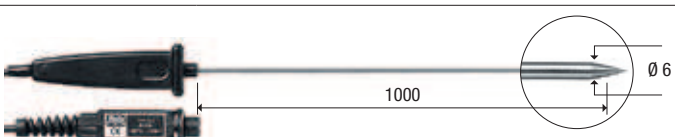

^(*) Note: the tolerance classes W0.03 and W0.06 are not included in the IEC 60751 standard.

TOLERANCE AS A FUNCTION OF TEMPERATURE

(the temperature range refers to the platinum wire wound probes)

Temperature (°C)	Tolerance (°C)				
	W0.3 Class B (DIN)	W0.15 Class A (1/2 DIN)	W0.1 1/3 DIN	W0.06 1/5 DIN	W0.03 1/10 DIN
-200	± 1.3	---	---	---	---
-100	± 0.8	± 0.35	± 0.27	± 0.16	± 0.08
0	± 0.3	± 0.15	± 0.10	± 0.06	± 0.03
100	± 0.8	± 0.35	± 0.27	± 0.16	± 0.08
200	± 1.3	± 0.55	± 0.44	± 0.26	± 0.13
300	± 1.8	± 0.75	± 0.60	± 0.36	---
350	± 2.1	± 0.85	± 0.69	---	---
400	± 2.3	± 0.95	---	---	---
450	± 2.6	± 1.05	---	---	---
500	± 2.8	---	---	---	---
600	± 3.3	---	---	---	---
650	± 3.6	---	---	---	---

Pt100 PROBES FOR PORTABLE INSTRUMENTS EQUIPPED WITH SICRAM MODULE

CODE	°C max	τ s	DIMENSIONS	USE
TP 472 I	-196 +500	3s		
TP 472 I.0 1/3 DIN Thin Film	-50 +300	3s		
TP 473 P.I	-50 +400	5s		
TP 473 P.O 1/3 DIN Thin Film	-50 +300	5s		
TP 474 C.I	-50 +400	5s		
TP 474 C.O 1/3 DIN Thin Film	-50 +300	5s		
TP 475 A.0 1/3 DIN Thin Film	-50 +250	12s		
TP 472 I.5	-50 +400	3s		
TP 472 I.10	-50 +400	3s		

Temperature



Pt100 PROBES FOR PORTABLE INSTRUMENTS EQUIPPED WITH SICRAM MODULE

CODE	°C max	τ s	DIMENSIONS		USE
TP 49 A.O Class A Thin Film	-70 +250	3,5s			
TP 49 AC.O Class A Thin Film	-70 +250	5,5s			
TP 49 AP.O Class A Thin Film	-70 +250	4s			
TP 87.0 1/3 DIN	-50 +200	3s			
TP 878.0 1/3 DIN Thin Film	+4 +85	60s	Contact probe for solar panels equipped with SICRAM module. Cable L = 2m.		
TP 878.1.0 1/3 DIN Thin Film	+4 +85	60s	Contact probe for solar panels equipped with SICRAM module. Cable L = 5m.		
TP 879.0 1/3 DIN Thin Film	-20 +120	60s	Penetration probe for compost equipped with SICRAM module. Cable L = 2m		
TP 880/300.I	-50 +450	60s	Mini DIN head. Cable L = 2m		
TP 880/600.I	-50 +450	60s	Mini DIN head. Cable L = 2m		
TP 875.I	-30 +120	15'	Globe-thermometer probe for measuring radiant heat \varnothing 150 mm. (ISO7243, ISO7726). 4 wires Pt100 Sensor cable L=2m. Equipped with SICRAM module.		
TP 876.I	-30 +120	15'	Globe-thermometer probe for measuring radiant heat \varnothing 50 mm. (ISO7243, ISO7726). 4 wires Pt100 Sensor cable L=2m. Equipped with SICRAM module.		