

Platinum 100 Ω Resistance Thermometer

- Temperature Range 70 K to 900 K



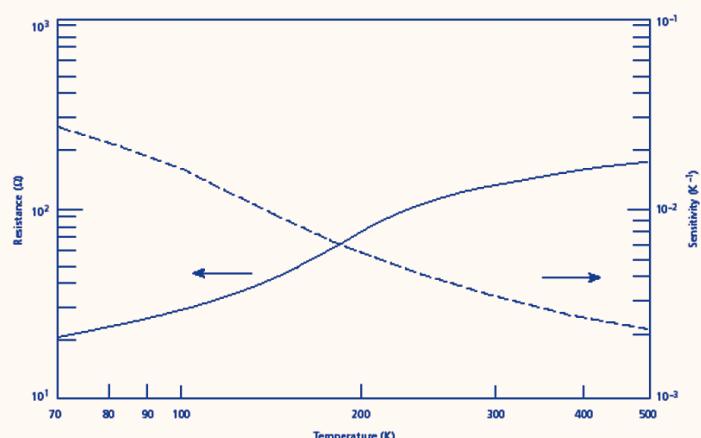
Each sensor conforms to BS 1904/1984 Class A, Band 4 and is supplied with a temperature resistance ratio chart. It is not available with individual calibration.

Platinum resistance sensors may be used in magnetic fields. The table on the right shows the percentage relative temperature error in magnetic fields to 19 Tesla.

Values for long axis of sensor parallel to field

T	$ \Delta T /T$ (%) in magnetic field B			
	2.5 T	8 T	14 T	19 T
87 K	0.04	0.4	1	2
300 K	0.01	0.02	0.07	0.13

Resistance (solid line) and sensitivity (dashed line) as a function of temperature for the platinum 100 Ω sensor (typical curves)



Ordering information

Sensor	Mounting block	Temperature controller/monitor
T1-101	A6-102	ITC 501, 502, 503, or 601 (standard curve already stored)