

Models Available

NTC 10K NTC Probe
PTC 1K PTC Probe
PT100 3 Wire PT100 Probe
THJ J Type Thermocouple
THK K Type Thermocouple

Product Features

- Plastic or stainless steel sheaths
- NTC probes in 1.5m, 3m or 6m lengths
- PTC probes in IP65 or IP67 versions
- Stainless steel braided cable option
- Custom specified probes also available

Temperature Probes

Tempatron temperature probes include thermistors, 3-wire PT100 resistance thermometer devices (RTDs) and J and K type thermocouples. The thermistors are available in negative temperature coefficient (NTC) or positive temperature coefficient (PTC) versions.

All probes are available with a 6mm diameter stainless steel sheath and the NTC thermistors are also available with a plastic sheath. The probes are available in 1.5m, 3m and 6m lengths and optional industrial probe heads, thermowells and compression fittings are also available.

Customer specified probes are also available - please contact our sales team for further details.

Temperature probes for detection of temperature in industrial applications

Specification

Temperature Range:

- NTC plastic sheath:
- -50°C to +50°C in water
- -50°C to +105°C in air
- NTC S/S sheath: -50°C to +105°C
- PTC0150000: 0°C to +150°C
- PTC015W000: -50°C to +100°C
- PT100000A1: -50°C to +250°C
- PT100000A2: -50°C to +400°C
- THJ030A1: -50°C to +200°C
- THK030A1: -50°C to +400°C

Thermistor Resistance:

- NTC: 10kohms at 25°C
- PTC: 1kohm at 25°C

PT100 RTD:

- 3 wire (2 or 4 wire by request)
- 100ohms at 0°C
- Platinum detector class A accuracy to BS EN 60751:1996 (see table)

J Type Thermocouple:

- PTFE insulated cable

K Type Thermocouple:

- Glass fibre insulated cable

Weight:

- NTC: 50g
- PTC: 50g
- PT100: 125g
- J/K Thermocouple: 125g

Specification subject to change without notice.

Ordering information

Model	Code	Description	
	NTC	NTC 10K Thermistor	
	PTC	PTC 1K Thermistor	
	PT100	PT100 3 Wire RTD	
	THJ	J Type Thermocouple	
	THK	K Type Thermocouple	

Probe Length	Code	Description
	000	3.0 metres (PT100 only)
	015	1.5 metres (NTC & PTC only)
	030	3.0 metres (NTC, THJ & THK only)
	060	6.0 metres (NTC only)

Sheath/Temperature	Code	Description
	0000	6x40mm Stainless Steel IP65 Sheath
		0 to 150°C (PTC only)
	HP00	6x15mm Plastic IP67 Sheath (NTC only)
	WH01	6x50mm Stainless Steel IP68 Sheath (NTC only)
	W000	6x40mm Stainless Steel IP67 Sheath (PTC only)
		-50 to 100°C (PTC only)
	A1	6x100mm Stainless Steel IP65 Sheath
		-50 to 200°C (PT100 & THJ only)
	A2	6x100mm Stainless Steel IP65 Sheath
		-50 to 400°C (PT100 & THK only)

Thermocouple Cable Insulation Colour Standards

Thermocouple Type	Conductor Materials (+/-)	BS1843	ANSI MC96.1	DIN43714	IEC584
В	Plat Rhodium Plat Rhodium		+		-
E	Ni Chromium Constantan	+	+		+
J	Iron Constantan	+	+	+	+
К	Ni Chromium Ni Aluminium	+	+	+	+
N	Nicrosil Nisil	+	+		+
R/S	Plat Rhodium Platinum	+	+	+	-
т	Copper Constantan	+	+	+	+
U Compensating cable for Types R/S	Copper Copper Nickel	+	+	+	+
Vx Compensating cable for Type K	Copper Constantan	+	+	+	+

Notes:

- 1. Thermocouples must be directly connected to the temperature controller and not joined, unless correct compensating cable is used.
- 2. The colours shown above may not exactly match the insulation colour due to printing reproduction limitations.

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

