



## Temperature Probes

Tempatron temperature probes include thermistors, 3-wire PT100 and 2-wire PT1000 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.

### Models Available

**NTC** 10K NTC Probe

**PTC** 1K PTC Probe

**PT100** 3 Wire PT100 Probe

**PT1** 2 Wire PT1000 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
- 2 wire, 3 wire or 4 wire RTD probes
- Custom specified probes also available

## 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
- PT1060WP01: -50°C to +105°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 & PT1000 RTD:

- PT100 3 wire (2 or 4 wire by request)  
PT100 sensor 100ohms at 0°C  
(class B accuracy to DIN IEC751)
- PT1000 2 wire (3 or 4 wire by request)  
PT1000 sensor 1000ohms at 0°C  
(class B accuracy to DIN IEC751)

#### J Type Thermocouple:

- PTFE insulated cable

#### K Type Thermocouple:

- Glass fibre insulated cable

#### Weight:

- NTC & PTC: 50g
- PT100 & J/K Thermocouple: 125g
- PT1000: 65g

Specification subject to change without notice.

### Ordering information

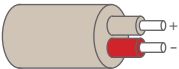































Model	Code	Description
	NTC	NTC 10K Thermistor
	PTC	PTC 1K Thermistor
	PT100	PT100 3 Wire RTD
	PT1	PT1000 3 Wire RTD
	THJ	J Type Thermocouple
	THK	K Type Thermocouple

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)
	WP01	6x50mm Stainless Steel IP68 Sheath (PT1 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)

**Example** **PT100000A1**

## Thermocouple Cable Insulation Colour Standards

Thermocouple Type	Conductor Materials (+/-)	BS1843	ANSI MC96.1	DIN43714	IEC584
B	Plat Rhodium Plat Rhodium				
E	Ni Chromium Constantan				
J	Iron Constantan				
K	Ni Chromium Ni Aluminium				
N	Nicrosil Nisil				
R/S	Plat Rhodium Platinum				
T	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.

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# TEMPATRON

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