

General Purpose 10k Thermistor Probe with 2m PTFE lead



Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockists of Thermocouple Cables. The Company has been trading since 1971 and is ISO 9001 accredited.

Labfacility have supplied Farnell for over 30 years, and an extensive range of our products are available to buy online, from stock, direct from Farnell.

Datasheet



2-wire 10K NTC thermistor housed in a stainless-steel sheath with a temperature range of -50 to +150°C, is a versatile temperature sensing device.

The stainless-steel sheath provides durability and protection, making this thermistor ideal for a wide range of applications, from industrial processes to consumer electronics and scientific research.

Key Features:

- Resistance Value: 10K ohms
- Type: NTC (Negative Temperature Coefficient) thermistor, meaning its resistance decreases as the temperature increases.
- Temperature Range: Capable of accurately measuring temperatures from -50°C to +150°C.
- Wiring: 2-wire configuration for simple connectivity.
- Design: Encased in a stainless-steel sheath for enhanced durability and protection against harsh environments

Applications:

Environmental Monitoring

- HVAC Systems: Monitors air temperature to regulate heating, ventilation, and air conditioning systems efficiently.
- Climate Control Devices: Ensures accurate temperature readings in smart thermostats and other climate control devices.

Industrial Processes

- Equipment Monitoring: Ensures the safe operation of machinery by monitoring and controlling operating temperatures.
- Process Control: Maintains precise temperatures in manufacturing processes, such as in chemical production, food processing, and material fabrication.

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Datasheet



Specifications

General Description	2-wire 10K NTC thermistor housed in a stainless steel sheath				
Thermistor	10K NTC Thermistor				
BETA 25/85	3977K				
Probe Diameter	3mm, 4mm, 4.5mm & 6mm				
Cable Length	2M				
Cable Type	PTFE insulated twisted leads				
Core / Strands	7/0.2mm				
Cable Termination	Bare Tails				
Max. Temperature	ure +150°C				
Min. Temperature	mperature -50°C				
Accuracy	+/- 0.2K (over 0-70°C)				
Length	25mm, 50mm, 100mm & 150mm				
Number of Wires 2					

Ordering Information

Number of Wires	Thermistor	Tube Diameter	Tube Length (mm)	Cable Length	Manufacturers Code	Farnell Order Code
2	10k	3mm	25	2m	RAA-S2TH-3.0-25-NP-2.0-C5-T	XF-2927-FAR
2	10k	3mm	50	2m	RAA-S2TH-3.0-50-NP-2.0-C5-T	XF-2928-FAR
2	10k	3mm	100	2m	RAA-S2TH-3.0-100-NP-2.0-C5-T	XF-2929-FAR
2	10k	3mm	150	2m	RAA-S2TH-3.0-150-NP-2.0-C5-T	XF-2930-FAR
2	10k	4.5mm	25	2m	RAA-S2TH-4.5-25-NP-2.0-C5-T	XF-2931-FAR
2	10k	4.5mm	50	2m	RAA-S2TH-4.5-50-NP-2.0-C5-T	XF-2932-FAR
2	10k	4.5mm	100	2m	RAA-S2TH-4.5-100-NP-2.0-C5-T	XF-2933-FAR
2	10k	4.5mm	150	2m	RAA-S2TH-4.5-150-NP-2.0-C5-T	XF-2934-FAR
2	10k	4mm	25	2m	RAA-S2TH-4.0-25-NP-2.0-C5-T	XF-2935-FAR
2	10k	4mm	50	2m	RAA-S2TH-4.0-50-NP-2.0-C5-T	XF-2936-FAR
2	10k	4mm	100	2m	RAA-S2TH-4.0-100-NP-2.0-C5-T	XF-2937-FAR
2	10k	4mm	150	2m	RAA-S2TH-4.0-150-NP-2.0-C5-T	XF-2938-FAR
2	10k	6.0mm	50	2m	RAA-S2TH-6.0-50-NP-2.0-C5-T	XF-2939-FAR
2	10k	6.0mm	100	2m	RAA-S2TH-6.0-100-NP-2.0-C5-T	XF-2940-FAR
2	10k	6.0mm	150	2m	RAA-S2TH-6.0-150-NP-2.0-C5-T	XF-2941-FAR

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Thermocouple & PRT Cable

Thermocouple cables are available in IEC or ANSI colour codes. Insulation types include PFA, PTFE, PVC &

Fibreglass. Available spool lengths include 10, 25, 50, 100 and 200m.

Best Sellers



ANSI PTFE Insulated Twin Twisted Farnell 2443696 Newark 73AC8304

ANSI PFA Insulated Twin Twisted Farnell 2443711 Newark 73AC8297

Fabricated and Specialist Thermocouples

Styles include; Magnet, Washer, Nozzle, Leaf, Bayonet & Bolt thermocouple. Various lengths and calibration types available.

Best Sellers



Washer Thermocouple Farnell 8597952 Newark 38K1555

Bayonet Thermocouple Farnell 2785115 Newark 37AC0993

> Magnet Thermocouple Farnell 2081298 Newark 88T2877



Thermocouples

Including exposed junctions with fitted or moulded miniature plug and insulated leads, ideal for test and development applications.

1, 2, 3, 5 & 10m lengths available in IEC or ANSI colours.

Best Sellers





IEC Type K Exposed Junction Farnell 4100748



Thermocouple Connectors

Range of miniature or standard thermocouple connectors. Available in thermocouple types K, J, T, E, N, RS, B, and copper. IEC, ANSI & JIS colour codes available.



IEC Thermocouple PCB Socket Farnell 2347056 **Newark 06X5514**



IEC Thermocouple Plug

Farnell 7086362 **Newark 67C1559**



ANSI Thermocouple Socket

> Farnell 2347121 Newark 06X4819



RTD Detectors

Wire-wound type provides greater accuracy and stability but are vulnerable to shock.

Flat film type are resistant to shock and have quicker thermal response times.

Various lengths and diameters available, in class A, B and 1/10th Din.

Best Sellers



Farnell 8598550 Newark 38K0883

Newark 15J1022

PT100 Wire **Wound Detector**

Farnell 2770776 Newark 25AC2608

PT100 Class A Thin Film Detector Farnell 8598525

Mineral Insulated Thermocouples

Available in various calibration types with a variety of terminations.

These include; Thermocouple plugs, Terminal heads and Thermocouple cable.



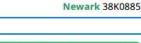


ANSI Thermocouple Farnell 2420317 Newark 53X3217

IEC Thermocouple with Mini Plug Farnell 4248338

Newark 19J1166

IEC Melt Bolt Thermocouple Farnell 2816490 Newark 44AC8638







Pt100 Heavy Duty Sensor Probe Farnell 8598096 Newark 38K0974



Pt100 Sensor in Stainless Steel Tube with Teflon Lead Farnell 2420300 Newark 53X3459

Pt100 Outdoor/ Cold Store Temperature

Sensor Farnell 2816462 Newark 44AC8648

L60 Fine Wire Thermocouple Welder

The Thermocouple Welder is a compact, simple-to-use instrument designed for thermocouple and fine wire welding. Supplied with foot switch, spare electrodes, pliers & safety glasses, impact clip and pen plate.

Best Sellers





L60+ Thermocouple & Fine Wire Welder and accessories Farnell 2897470 Newark 62AC8741

applications and styles, available in class A or B.

Resistance Thermometer

Detectors (RTD) / Platinum

Resistance Thermometers (PRT)

To suit a wide range of

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