

10k Thermistor Temperature Sensor with Exposed Detector



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 exposed thermistor with a temperature range of -50 to +150°C, is a versatile temperature sensing device.

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.

Applications:

Environmental Monitoring

- HVAC Systems: Essential for regulating heating, ventilation, and air conditioning systems by providing accurate ambient temperature readings.
- Climate Control Devices: Used in smart thermostats and climate control units to maintain optimal environmental conditions in residential and commercial buildings.

Industrial Processes

- Equipment Monitoring: Critical for monitoring the operating temperatures of industrial machinery to prevent overheating and ensure optimal performance.
- Process Control: Used in various manufacturing processes where maintaining specific temperatures is crucial, such as in chemical production, food processing, and material fabrication.

TH - 3 Jun-24

Datasheet



Specifications

General Description	Fast response, exposed detector		
Sensor Type	Exposed Thermistor		
Thermistor	10K NTC Thermistor		
BETA 25/85	3977K		
Cable Length	300mm, 500mm, 1m, 3m, or 5m		
Core / Strands	7/0.2mm		
Cable Termination	Bare Tails		
Max. Temperature	+150°C		
Min. Temperature	-50°C		
Accuracy	+/- 0.2K (over 0-70°C)		
Number of Wires	2		

Ordering Information

Number of Wires	Thermistor	Cable Length (mm)	Manufacturers Code	Farnell Order Code
2	10k	300	RG-S2TH-300-C5	4461833
2	10k	500	RG-S2TH-500-C5	4461834
2	10k	1000	RG-S2TH-1000-C5	4461835
2	10k	3000	RG-S2TH-3000-C5	4461837
2	10k	5000	RG-S2TH-5000-C5	4461838

TH - 3 Jun-24



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

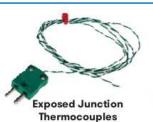


Washer Thermocouple Farnell 8597952 Newark 38K1555



Bayonet Thermocouple Farnell 2785115 Newark 37AC0993

Magnet Thermocouple Farnell 2081298 Newark 88T2877



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 T Exposed Junction Farnell 7076186 Newark 68C2613

IEC Type K Exposed Junction Farnell 4100748 Newark 15J1022



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**





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



PT1000 Thin Film Detector Farnell 8598550 Newark 38K0883

PT100 Wire **Wound Detector**

Farnell 2770776 Newark 25AC2608

PT100 Class A Thin Film Detector



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



Farnell 8598525 **Newark 38K0885**



Resistance Thermometer Detectors (RTD) / Platinum Resistance Thermometers (PRT)

To suit a wide range of applications and styles, available in class A or B.

Best Sellers



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

TH - 3 Jun-24