

Industrial Automation Class A Pt100 RTD with M12 connector with 1/2" or 1/4" BSPP Process Connection



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.

An industrial automation temperature sensor with a measuring range of -50 to +250°C with a Pt100 class A 4 wire resistance thermometer detector (RTD).

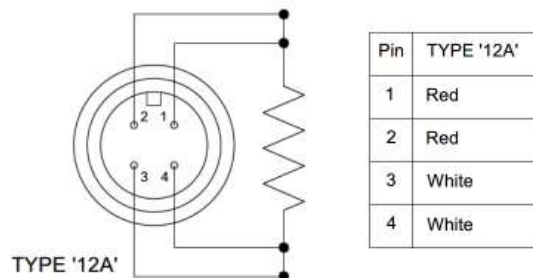
The Sensor features an industry standard 4 pin M12 A coded instrument connection, suitable for new industrial process control & automation applications and field replacement of sensors.

- Pt100 RTD class A 4 wire resistance thermometer as per IEC 751
- Sensor temperature rating -50 to +250°C
- 4 pin M12 A coded instrument connection
- For use with M12 female connectors & extension cables

Specifications

General Description	Pt100 RTD Class A 4-wire resistance thermometer as per IEC 751
Sensor Type	Pt100
Sheath Material	316 Stainless Steel
Termination Type	M12 Male
Sheath Length (mm)	100mm, 150mm, 200mm, 250mm
Sheath Diameter (mm)	3mm, 6mm
Process Connection options	1/2" or 1/4" BSPP process fitting
Max. Temperature	250°C
Min. Temperature	-75°C
Number of Wires	4 wire
General Description	Pt100 RTD Class A 4-wire resistance thermometer as per IEC 751

4 pin Wiring Diagram.

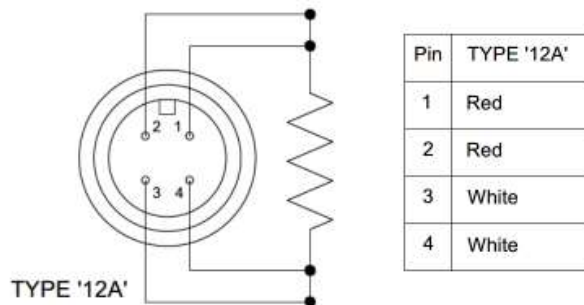


Ordering Information

Process Connection	Sheath Diameter	Sheath Length	Termination Type	Manufacturer Part No	Farnell Order Code
1/4" BSPP	3mm	100mm	M12 Male	RPPA-S-3.0-100-F143-12A	XF-2674-FAR
1/4" BSPP	3mm	150mm	M12 Male	RPPA-S-3.0-150-F143-12A	XF-2675-FAR
1/4" BSPP	3mm	200mm	M12 Male	RPPA-S-3.0-200-F143-12A	XF-2676-FAR
1/4" BSPP	3mm	250mm	M12 Male	RPPA-S-3.0-250-F143-12A	XF-2677-FAR
1/4" BSPP	6mm	100mm	M12 Male	RPPA-S-6.0-100-F146-12A	XF-2678-FAR
1/4" BSPP	6mm	150mm	M12 Male	RPPA-S-6.0-150-F146-12A	XF-2679-FAR
1/4" BSPP	6mm	200mm	M12 Male	RPPA-S-6.0-200-F146-12A	XF-2680-FAR
1/4" BSPP	6mm	250mm	M12 Male	RPPA-S-6.0-250-F146-12A	XF-2681-FAR
1/2" BSPP	3mm	100mm	M12 Male	RPPA-S-3.0-100-F123-12A	XF-2682-FAR
1/2" BSPP	3mm	150mm	M12 Male	RPPA-S-3.0-150-F123-12A	XF-2683-FAR
1/2" BSPP	3mm	200mm	M12 Male	RPPA-S-3.0-200-F123-12A	XF-2684-FAR
1/2" BSPP	3mm	250mm	M12 Male	RPPA-S-3.0-250-F123-12A	XF-2685-FAR
1/2" BSPP	6mm	100mm	M12 Male	RPPA-S-6.0-100-F126-12A	XF-2686-FAR
1/2" BSPP	6mm	150mm	M12 Male	RPPA-S-6.0-150-F126-12A	XF-2687-FAR
1/2" BSPP	6mm	200mm	M12 Male	RPPA-S-6.0-200-F126-12A	XF-2688-FAR
1/2" BSPP	6mm	250mm	M12 Male	RPPA-S-6.0-250-F126-12A	XF-2689-FAR



4 pin Wiring Diagram.





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

IEC PVC Insulated Flat Pair
Farnell 7082319
Newark 69C6504

ANSI PTFE Insulated Twin Twisted
Farnell 2443696
Newark 73AC8304

ANSI PFA Insulated Twin Twisted
Farnell 2443711
Newark 73AC8297

Best Sellers



Fabricated and Specialist Thermocouples

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



Washer Thermocouple
Farnell 8597952
Newark 38K1555

Bayonet Thermocouple
Farnell 2785115
Newark 37AC0993

Magnet Thermocouple
Farnell 2081298
Newark 88T2877



Exposed Junction 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

ANSI Type K Exposed Junction
Farnell 2443720
Newark 84X0232

IEC Type T Exposed Junction
Farnell 7076186
Newark 68C2613

IEC Type K Exposed Junction
Farnell 4100748
Newark 15J1022

Best Sellers



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

PT1000 Thin Film Detector
Farnell 8598550
Newark 38K0883

PT100 Wire Wound Detector
Farnell 2770776
Newark 25AC2608

PT100 Class A Thin Film Detector
Farnell 8598525
Newark 38K0885

Best Sellers



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



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

