

# Industrial Automation Class A Pt100 RTD with M12 connector with Plain Barrel 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.

## **Datasheet**

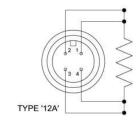


An industrial automation temperature sensor with a measuring range of -50 to +250°C with a Pt100 class A 4 wire resistance thermometer detector (RTD).

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

4 pin Wiring Diagram



Pin	TYPE '12A'	
1	Red	
2	Red	
3	White	
4	White	

# **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	Plain barrel			
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			

# **Ordering Information**

Process Connection	Sheath Diameter	Sheath Length	Termination Type	Farnell Order Code	Manufacturer Part No
Plain barrel			M12 Male	XF-2666-FAR	1 1 0
Plain barrei	3mm	100mm	WITZ Wate	AF-2000-FAR	RPBA-S-3.0-100-B3-12A
Plain barrel	3mm	150mm	M12 Male	XF-2667-FAR	RPBA-S-3.0-150-B3-12A
Plain barrel	3mm	200mm	M12 Male	XF-2668-FAR	RPBA-S-3.0-200-B3-12A
Plain barrel	3mm	250mm	M12 Male	XF-2669-FAR	RPBA-S-3.0-250-B3-12A
Plain barrel	6mm	100mm	M12 Male	XF-2670-FAR	RPBA-S-6.0-100-B6-12A
Plain barrel	6mm	150mm	M12 Male	XF-2671-FAR	RPBA-S-6.0-150-B6-12A
Plain barrel	6mm	200mm	M12 Male	XF-2672-FAR	RPBA-S-6.0-200-B6-12A
Plain barrel	6mm	250mm	M12 Male	XF-2673-FAR	RPBA-S-6.0-250-B6-12A

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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



#### **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



**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



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**



Film Detector Farnell 8598550 Newark 38K0883

PT100 Wire **Wound Detector** 

Farnell 2770776 Newark 25AC2608

PT100 Class A Thin Film Detector

Farnell 8598525 **Newark 38K0885** 



#### Mineral Insulated Thermocouples

Available in various calibration types with a variety of terminations

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





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**



Sensor Probe Farnell 8598096 Newark 38K0974



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

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