

PROBE RTD PT100

RTD-PT100-SIL



DESCRIPTION

This probe is built using the best components available, including a precision 1/3 DIN class B resistance temperature detector (RTD) element, a double waterproofing stainless steel sleeve, and a silicone cable. It is the ideal choice for the most demanding applications requiring an extreme temperature range. Furthermore, our PT100 outperforms a type A RTD in terms of accuracy, providing more precise temperature readings between -40 °C and 40 °C. The 3-wire configuration allows for constant correction of errors caused by the cable length, ensuring the highest level of precision.

APPLICATIONS

- OEM
- Industrial production
- Prototypes
- Scientific research
- Building automation
- Engineering and R&D

OPTIONAL LENGTHS

- 1.5 m (5 ft)
 - Custom
- (minimum quantities required)

Traceability certificates

SPECIFICATIONS			
Parameter	Condition	Value	Units
RTD-PT100			
Probe type	–	PT100	–
Temperature coefficient	Alpha	385	–
RTD value	At 0°C	100	Ohms
Accuracy type	Class B 1/3 DIN, (IEC 751-95)	±0.04	Ohms
Accuracy	0°C	±0.10	°C
Accuracy	-25°C to 25 °C	±0.14	°C
Accuracy	-40°C to 40 °C	±0.17	°C
Accuracy	-100 °C to 100 °C	±0.60	°C
Accuracy	-200 °C to 200 °C	±0.90	°C

SPECIFICATIONS			
Parameter	Condition	Value	Units
Number of wires	–	3	–
Cable insulation	Silicone	–	–
Probe material	Stainless steel	316	–
Probe diameter	–	5	mm
Probe length	–	152	mm
Waterproofing	Dual Crimp seal	–	–
Weight	–	–	–
Connector type	Standard mini male	3	pin
Response time	–	–	–
Cable length ^[1]	–	2	m

Certification(s)			
RoHS	RoHS3	Yes	–
CE	CE/REACH	Yes	–

^[1] Custom lengths are available. Minimum order quantities may apply.

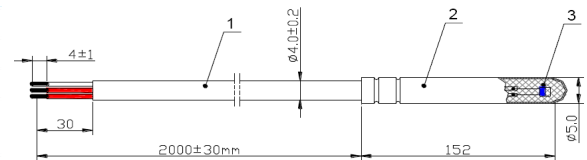
Warning: This product should not be used in applications where its failure may cause personal injury.

Note: While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions.

Note: Data may change without notification, and you are strongly advised to obtain copies of the most recently issued data sheet.

PRODUCT DIMENSIONS

- 1 Silicone cable
- 2 Stainless Steel Probe
- 3 RTD element



PT100 PROBE WITH A 3-PIN CONNECTOR



ORDERING

PRODUCT(S)		
PART NUMBER	OPTION	DESCRIPTION
601110	RTD-PT100-SIL	RTD-PT100 Class 1/3 DIN 3-wire sensor without connector.
601108	RTD-PT100-SIL-A	RTD-PT100 Class 1/3 DIN 3-wire sensor - With pre-wired connector for Dracal RTD200 adapter.
601109	RTD-PT100-SIL-B	RTD-PT100 Class 1/3 DIN 3-wire sensor - With pre-wired connector for Dracal RTD300 adapter.

TRACEABILITY CERTIFICATE(S)

NT1WT	1-point temperature certificate for one (1) unit
NT2WT	2-point temperature certificate for one (1) unit
NT3WT	3-point temperature certificate for one (1) unit
NT4WT	4-point temperature certificate for one (1) unit

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