

PR-10 Metric Series

Metric RTD Probe with Insulated Wire and Shrink-Tube Support

- Class A accuracy, conforming to IEC 60751
- Low temperature range: -50 to 250°C (-58 to 482°F)
- High temperature range: -50 to 450°C (-58 to 842°F)
- Standard probe lengths of 100 mm, 150 mm or 300 mm. Measured from tip to end of heat shrink.
- Resistance value: PT100 Ω or PT1000 Ω; 2, 3, or 4-wire
- Stripped-end standard (Contact Sales for additional options)



Description

Omega's RTD probe with insulated lead wire has a shrink-tube strain relief support at the sheath/wire transition to provide wire flexibility and durability. This probe is offered in 2-, 3-, or 4-wire configuration. Applications for this probe include liquid immersion, slurries and emulsions, granular material measurements, as well as temperature monitoring of heat bars, kilns, and pipes. This probe is suited for both process and laboratory temperature measurements.

Specifications

Model	PR-10L (Low)	PR-10H (High)
Process Temperature Range	- 50 °C to 250 °C (-58 °F to 482 °F)	-50 °C to 450 °C (-58 °F to 842 °F)
Accuracy	Class A	Class A from -50 °C to 300 °C (-58 °F to 572 °F); or else Class B
Nominal Resistance/Curve	Pt100: 100 Ω at 0 °C standard; TCR = 0.00385 Ω/Ω/°C standard Pt1000: 1000 Ω at 0 °C standard; TCR = 0.00385 Ω/Ω/°C standard	
Wire Length	1 m standard (for longer lengths, contact sales)	
Wire Material	PFA	Glass fibre
Wire Termination Max Temp	250 °C (482 °F)	450 °C (842 °F)
Lead Wire Termination	Stripped ends (Contact Sales for additional options)	
Dimensions	Diameters: 3 mm, 6 mm Standard Probe Length: 100 mm, 150 mm, 300 mm (For other probe lengths, contact Sales)	
Ingress Protection	IP67	-
Response Time T90 (s)	3 mm: 2.8 seconds 6 mm: 5.2 seconds	3mm: 6 seconds 6 mm: 16 seconds
Vibration	IEC 60068-2-6; 5 Hz to 2000 Hz sweep rate, one active per minute; 10 sweep cycles; acceleration 5 g (15 probes tested together) Duration: 1 day	
Shock	IEC 60068-2-27; 50 g/11 ms (15 probes tested together) Duration: 1 day	

Ordering Example: PR-10L-3-100-M30-150: 100 Ohm, Class A RTD, - 50 °C to 250 °C, 3 mm diameter probe, 150 mm probe length, 1 m of lead wire, stripped ends

DS-PR-10

