

### RTD Probe with Insulated Wire and Shrink-Tube Support

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. This is available in three temperature ranges covering -200°C to 600°C (-328 to 1112°F) to accommodate your specific temperature needs. 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.

### Features

- 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)
- Extreme temperature range: -200 to 600°C (-328 to 1112°F)
- Standard probe lengths of 2, 3, 4, 6, 9, 12, 18, and 24"
- Resistance value: PT100 Ω or PT1000 Ω; 2, 3, or 4-wire
- Stripped-end standard; other terminations offered
- Dual element offered in both PT100 Ω and PT1000 Ω
- "H" probes in 1/8" diameter will have a metal barrel at transition

### Specifications

Model	PR-10L (Low)	PR-10H (High)	PR-10E (Extreme)
Process Temperature Range	-50 to 250°C (-58 to 482°F)	-50 to 450°C (-58 to 842°F)	-200 to 600°C (-328 to 1112°F)
Accuracy	Class A	Class A from -50 to 300°C (-58 to 572°F); or else Class B	Class A from -100 to 450°C (-148 to 842°F); or else Class B
Nominal Resistance/Curve	100 Ω at 0°C standard; TCR = 0.00385 Ω/Ω/°C standard		
Wire Length	40" standard (longer lengths may be built using our configurator)		
Wire Material	PFA	PFA	PFA
Wire Termination Max Temp	100°C (212°F)	250°C (482°F)	250°C (482°F)
Lead Wire Termination	Stripped ends. Other terminations may be configured.		
Dimensions	Diameters: 1/8, 3/16 and 1/4 inch. Standard probe length of 2, 3, 4, 6, 12, 18 and 24 inch. Other lengths may be built using our configurator.		
Ingress Protection	IP67	IP67	IP67
Response time T90 (s)	1/8" 2.4 sec 3/16" 2.8 sec 1/4" 3.25 sec	1/8" 2.8 sec 3/16" 4.11 sec 1/4" 5.41 sec	1/8" 9 sec 3/16" 9.8 sec 1/4" 10.6 sec
Vibration	IEC 60068-2-6; 5 to 2000 Hz sweep rate, one active per minute; 10 sweep cycles; acceleration 5g (15 probes tested together) Duration: 1 day		
Shock	IEC 60068-2-27; 50g/11ms (15 probes tested together) Duration: 1 day		

**Ordering Example: PR-10H-3-100-1/8-6:** 100 Ω, Class "A" RTD, "High" temp -50 to 450°C (-58 to 842°F), 1/8" probe diameter, 6 inch length, 40 inches of lead wire, stripped ends.

