

PR-12-Series

RTD Probe with Cast Iron Protection Head

Our PR-12 series probe with chemical-resistant cast iron protection head and screw-on cap includes PT100 Ω platinum RTD element or PT1000 RTD element, 1/2" NPT mounting threads and sheath of 316 stainless steel. When properly sized, these can go directly into and bottom out in a thermowell. All probes include a screw terminal block for easy connection of insulated copper extension wire. Using our probe configurator, replacement probes (without head assembly) are available as well as a "spring-loading" option which allows for the probe to bottom out in a thermowell for quicker and more accurate response. Applications for this probe include installation into large vessels and tanks, as well as large pipes for temperature monitoring.



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
- Cast iron head with screw-on cap
- Choice of PT100 and PT1000 Ω element
- IP67 Ingress Protection

Specifications

Model	PR-12L (Low)	PR-12H (High)	PR-12E (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	Class A from -100 to 450°C (-148 to 842°F); or else Class B
Nominal Resistance and Curve	100 Ω and 1000 Ω at 0°C standard; TCR = 0.00385 $\Omega/\Omega/^\circ\text{C}$ standard		
Process Connection	1/2" NPT	1/2" NPT	1/2" NPT
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" 0.75 sec 3/16" 0.975 sec 1/4" 1.2 sec	1/8" 1.00 sec 3/16" 1.55 sec 1/4" 2.10 sec	1/8" 1.5 sec 3/16" 1.95 sec 1/4" 2.4 sec
Vibration	IEC 60068-2-6; 5 to 2000 Hz sweep rate, one active per minute; number of sweep cycles 10 and acceleration 5g (15 probes tested together) Duration: 1 day		
Shock	IEC 60068-2-27; 50g/11ms (15 probes tested together) Duration: 1 day		