PR-13-Series

RTD Probe with Large 3-Prong Connector

The PR-13 RTD probe assembly has a heavy duty 3-prong Omega "OTP" style connector for easy connection to extension cables, hand-held meters or other instrumentation. Probe diameter is 1/8", 3/16" or 1/4". The measuring portion of the probe can be simply inserted into a container to measure liquid temperature, or fixed into place in a pipe, tank, or vessel using an optional "BRLK" or "SSLK" compression fitting. These probes can be ordered with PT100 or PT1000 resistance element.

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**
- **Integral male connector (female sold separately)**
- **Choice of PT100 and PT1000 Ω element**
- **IP67 Ingress Protection**

Specifications

Model	PR-13L (Low)	PR-13H (High)	PR-13E (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 and Curve	100 Ω and 1000 Ω at 0°C standard; TCR = 0.00385 Ω/Ω/°C standard		
Connection Type	Large Connector	Large Connector	Large Connector
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; 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		