

PR-17-Series

RTD Probe with Miniature 3-Pin Connector

Omega's RTD connector-style probe has a heavy duty 3-prong Omega "MTP" connector for easy connection to extension cables, hand-held meters or other instrumentation. Probe diameter is 1/8". 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 mini connector (female sold separately)**
- **Choice of PT100 and PT1000 Ω element**
- **IP67 Ingress Protection**

Specifications

Model	PR-17L (Low)	PR-17H (High)	PR-17E (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 and 1000 Ω at 0°C standard; TCR = 0.00385 $\Omega/\Omega/^\circ\text{C}$ standard		
Connection Type	Mini Connector	Mini Connector	Mini Connector
Dimensions	Diameters: 1/8" only 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	1/8" 2.8 sec	1/8" 9 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		