PR-16-Series

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RTD Utility Handle Probe

The PR-16 series, Omega's RTD handle probe, features an easy-grip molded handle. It has a 3-conductor retractable cable that is 1 foot long, expandable to 5 feet. This is available in standard lengths of 12, 18 and 24". The 12" length probe can be stored in toolboxes or other locations for easy access. Standard termination is stripped-end lead wires. This comes with either PT100 Ω or PT1000 Ω 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 12, 18 and 24 inches**
- **Resistance value: PT100 Ω or PT1000 Ω**
- **Stripped-end standard; other terminations offered**
- **Choice of PT100 and PT1000 Ω element**

Specifications

Model	PR-16L (Low)	PR-16H (High)	PR-16E (Extreme)
Process Temperature Range	-58 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 Ω/Ω/°C standard		
Wire Length	1 foot (expandable to 5 feet)		
Wire Material	TPE (coiled)	TPE (coiled)	TPE (coiled)
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	None	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		