

## 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  $\Omega$  or PT1000  $\Omega$
- Integral male mini connector (female sold separately)
- Choice of PT100 and PT1000  $\Omega$  element
- IP67 Ingress Protection

### Specifications

| Model                     | PR-17L (Low)                                                                                                                                      | PR-17H (High)                                                | PR-17E (Extreme)                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| Process Temperature Range | -50 to 250°C<br>(-58 to 482°F)                                                                                                                    | -50 to 450°C<br>(-58 to 842°F)                               | -200 to 600°C<br>(-328 to 1112°F)                              |
| Accuracy                  | Class A                                                                                                                                           | Class A from -50 to 300°C<br>(-58 to 572°F); or else Class B | Class A from -100 to 450°C<br>(-148 to 842°F); or else Class B |
| Nominal Resistance/Curve  | 100 $\Omega$ and 1000 $\Omega$ 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<br>Standard probe length of 2, 3, 4, 6, 12, 18 and 24 inch.<br>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;<br>10 sweep cycles; acceleration 5g (15 probes tested together)<br>Duration: 1 day |                                                              |                                                                |
| Shock                     | IEC 60068-2-27; 50g/11ms (15 probes tested together) Duration: 1 day                                                                              |                                                              |                                                                |