



Fast Response Copper Tip RTD Sensor

PR-25CU Series

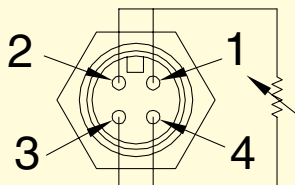


Optional

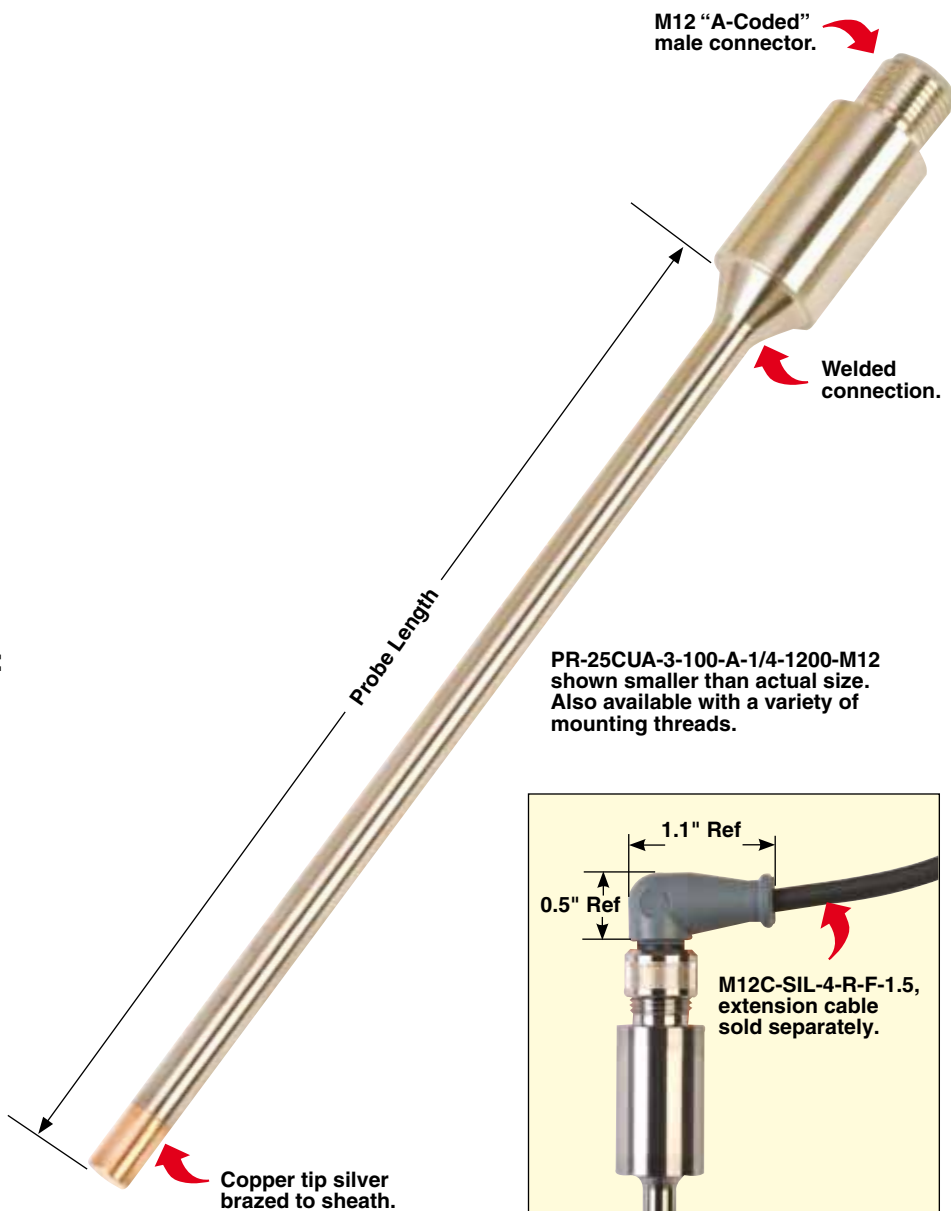
- ✓ Element Located Inside Copper Alloy Tip for Improved Thermal Response
- ✓ 316L Stainless Steel Sheath and Housing
- ✓ Can be Used for Measuring Bearing Temperature and in Thermowells
- ✓ Operating Temperature Sensor: -50 to 250°C (-58 to 482°F)
Connector: -50 to 85°C (-58 to 185°F)
- ✓ Response Time (Typical):
6 Seconds for 63.2%,
5 Seconds for 50%,
11 Seconds for 90%
[Water at 0.91 m (3')/second]

This RTD sensor incorporates a copper tip which provides an improved heat transfer path between the sensing element and the process conditions allowing for reduced response times and better temperature tracking. This becomes especially important in applications where the sensor has little exposure to the item being measured such as in thermowells and bearing temperatures.

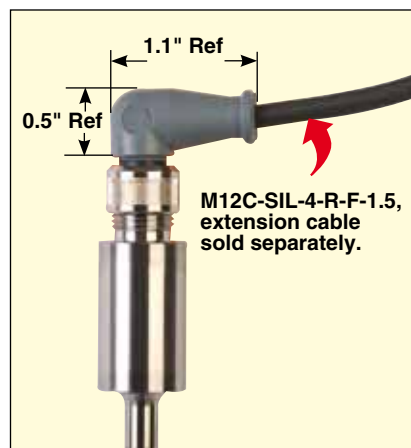
The M12 connector provides a secure connection for all types of applications. The probe can be ordered straight or with mounting threads of $\frac{1}{2}$, $\frac{3}{8}$ or $\frac{1}{4}$ NPT. The probe is also offered in a metric millimeter size and M8x1 and M10x1 mounting threads.



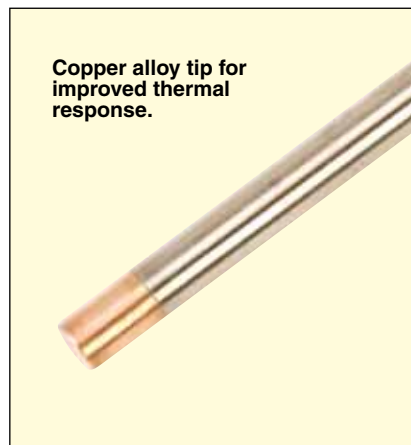
Wiring Diagram



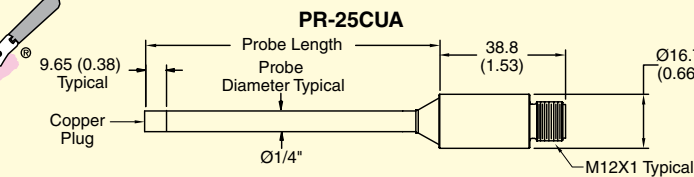
PR-25CUA-3-100-A-1/4-1200-M12 shown smaller than actual size. Also available with a variety of mounting threads.



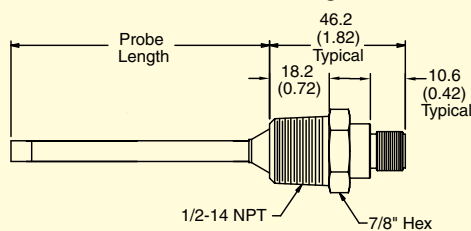
4-pin male M12 connector end shown larger than actual size.



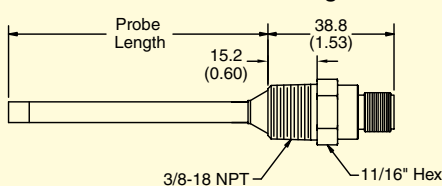
Copper alloy tip for improved thermal response.



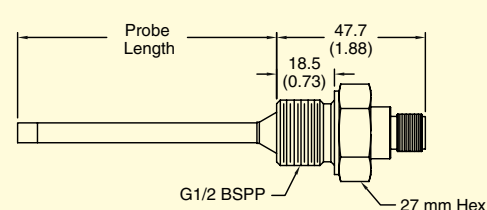
PR-25CUB ½ NPT Mounting Thread



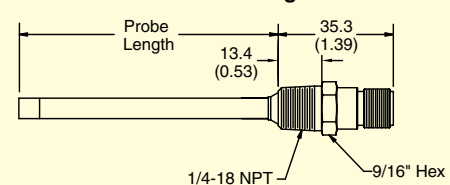
PR-25CUC ¾ NPT Mounting Thread



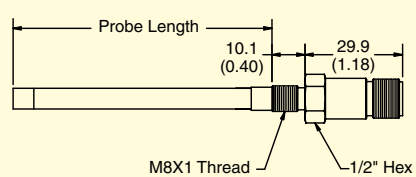
PR-25CUG



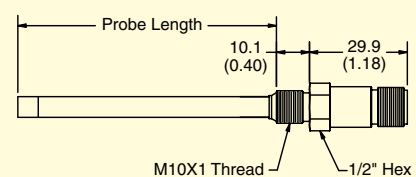
PR-25CUD ¼ NPT Mounting Thread



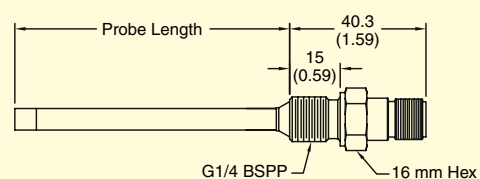
PR-25CUE M8x1 Mounting Thread



PR-25CUF M10x1 Mounting Thread



PR-25CUH



Dimensions:
mm (inch)
Ø = diameter

Standard

To Order

Model No.	Description
PR-25CUA-3-100-A-1/4-0600-M12	Straight sheath, Class A, 100 Ω, ¼" diameter, 12" long, M12 male connector
PR-25CUB-3-100-A-1/4-0600-M12	Straight sheath with ½ NPT mounting, Class A, 100 Ω, ¼" diameter, 12" long, M12 male connector
PR-25CUC-3-100-A-1/4-0600-M12	Straight sheath with ¾ NPT mounting, Class A, 100 Ω, ¼" diameter, 12" long, M12 male connector
PR-25CUD-3-100-A-1/4-0600-M12	Straight sheath with ¼ NPT mounting, Class A, 100 Ω, ¼" diameter, 12" long, M12 male connector

For lengths other than 6", change "-0600" in model number to required length and add additional cost per inch greater than 6", (example: 18" = 1800).

For 1000 Ω RTD elements change "-100" to "-1000" in model number.

For Class B Element, change the "-A" to "-B".

For ⅜" probe diameters, change "-1/4" in model number to "-3/16", no additional cost.

Ordering Examples: PR-25CUA-3-100-A-1/4-0600-M12, ¼" diameter probe, 6" long with Pt100, Class A element, straight sheath with M12 male connector.

PR-25CUB-3-100-A-1/4-0600-M12, straight sheath with ½ NPT mounting, Class A, 100 Ω, ¼" diameter, 6" long, M12 male connector.

Metric

Model No.	Description
PR-25CUE-3-100-A-M6-M150-M12	Straight sheath with M8x1 mounting thread, Class A, 100 Ω, 6 mm diameter, 150 mm long, M12 male connector
PR-25CUF-3-100-A-M6-M150-M12	Straight sheath with M10x1 mounting thread, Class A, 100 Ω, 6 mm diameter, 150 mm long, M12 male connector
PR-25CUG-3-100-A-M6-M150-M12	Straight sheath with G½ mounting thread, Class A, 100 Ω, 6 mm diameter, 150 mm long, M12 male connector
PR-25CUH-3-100-A-M6-M150-M12	Straight sheath with G¼ mounting thread, Class A, 100 Ω, 6 mm diameter, 150 mm long, M12 male connector

For lengths other than 150 mm, change "-M150" in model number to required length and add additional cost per inch greater than 150 mm.

For 4.5 mm diameters, change "-M6" in model number to "-M4.5", no additional cost.

Ordering Examples: PR-25CUE-3-100-A-M6-M150-M12, straight sheath with M8x1 mounting thread, Class A, 100 Ω, 6 mm diameter, 150 mm long, M12 male connector.

PR-25CUE-3-100-A-M4.5-M150-M12, straight sheath with M8x1 mounting thread, Class A, 100 Ω, 4.5 mm diameter, 150 mm long, M12 male connector.