

A05 | 1/8" Miniature RTD w/Cable Extension

Specifications

The A05 design delivers an extremely small profile sensor with class leading tolerances. When space is limited accuracy and repeatability are a must and extended cable length is necessary, the A05 is the answer. The small diameter, highly flexible sheath enables the sensor to maneuver into even the tightest spaces to secure your critical temperature measurements. With unlimited installation possibilities, the A05 gives you maximum flexibility and reach in a compact design.

Features and Benefits:

- **Application:** Direct or indirect immersion in subzero and elevated temperature applications. Easily "snaked" into difficult to reach areas. Ideal for vial or sample cell measurements.
- **Accuracy:** Precision, 0.05% and Standard, 0.10%
- **Tip:** 316 stainless steel, 0.125" diameter, 1.250" length
- **Sensitive Length:** 0.40"
- **Element/Lead Wire Configuration:** Single 3 or 4 wire
- **Cable:** 32 AWG PTFE insulated wires with PFA sheath and white PFA cable extension
- **Cleanability:** 316 stainless steel tip and PFA cable jacket

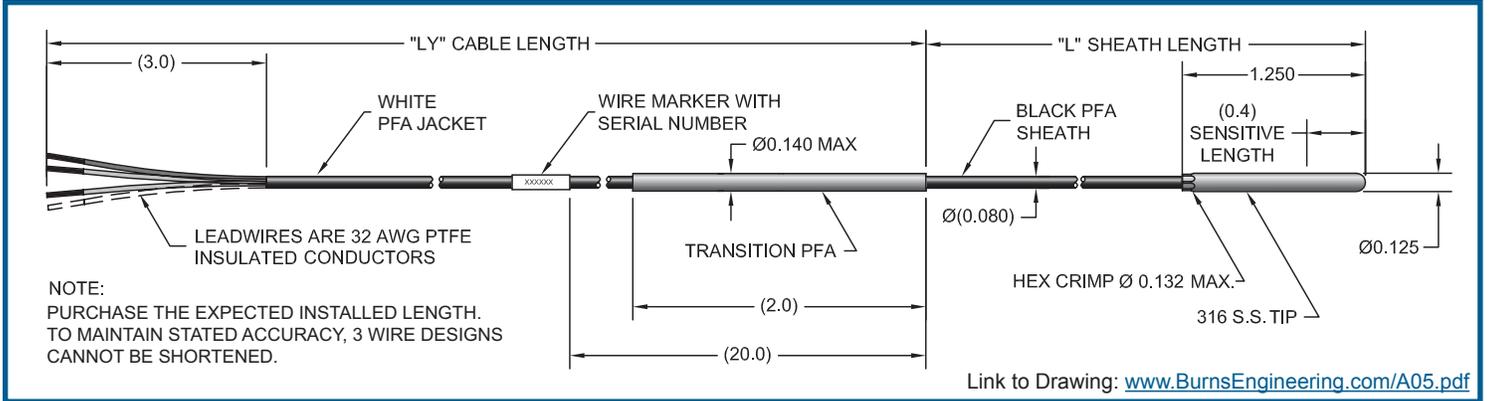
Specifications:

- **Element Configuration:** Single, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- **Temperature Range:** Sensor and Cable
 - » Precision Accuracy: -196°C to 200°C
 - » Standard Accuracy: -50°C to 200°C
- **R0 interchangeability:**
 - » Precision Accuracy: $R0 \pm 0.05$ ohms
 - » Standard Accuracy: $R0 \pm 0.10$ ohms
- **Repeatability and Hysteresis:** Maximum change at 0°C after 10 thermal cycles over the operating temperature range.
 - » Precision Accuracy: $\pm 0.05^\circ\text{C}$ (0.02Ω)
 - » Standard Accuracy: $\pm 0.10^\circ\text{C}$ (0.04Ω)
- **Long Term Stability:** Maximum change at 0°C after 1000 hour soak at 200°C
 - » Precision Accuracy: $\pm 0.03^\circ\text{C}$ (0.01Ω)
 - » Standard Accuracy: $\pm 0.26^\circ\text{C}$ (0.10Ω)
- **Insulation Resistance:** 10 mega-ohms minimum at 100 VDC at room temperature



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Ordering Information



All dimensions in inches

A05- 1/8" Miniature RTD with Cable

RTD Accuracy

- 05 Precision, +/- 0.05% of resistance at 0 degrees C
- 10 Standard, +/- 0.10% of resistance at 0 degrees C

Element Configuration

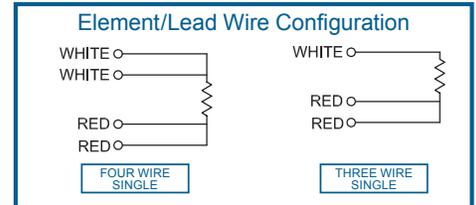
- A Three wire single
- B Four wire single

"L" PFA Sheath Length

- 120 12.0 inches
- 240 24.0 inches
- 360 36.0 inches

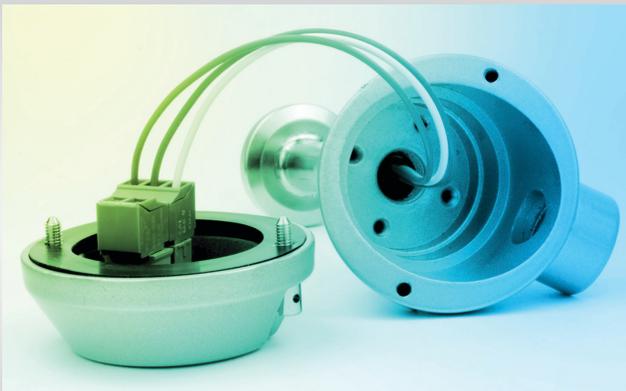
"L" Cable Length

- 024 24.0 inches
 - 120 120.0 inches
- Specify cable length in 12 inch increments



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Example Part Number: A05-05A120-024



Customized miniature sensors,
designed for your application.

The T16 Mini Transmitter

Maximum performance in minimal space. Easily programmed and an excellent addition to the Burns S01 Mini Sanitary RTD or adaptable to nearly any RTD application.

Contact us to discuss your specific application.