

A01 | 1/8" Miniature RTD

Specifications

The A01 design delivers an extremely small profile sensor while exceeding Class A tolerances. When space is limited and accuracy and repeatability are a must, the A01 is the answer. The small diameter sheath, coupled with a highly flexible wire/cable jacket combination, enables the sensor to maneuver into even the tightest spaces to secure your critical temperature measurements. With unlimited installation possibilities, the A01 gives you maximum flexibility in a compact design.

Features and Benefits:

- Application: Direct or indirect immersion in cryogenic and elevated temperature applications. Easily “snaked” into difficult to reach areas. Ideal for vial or sample cell measurements.
- Accuracy: Precision, 0.05%
- Sheath: 316 stainless steel, 0.125" diameter, 1.250" length
- Sensitive Length: 0.36"
- Element/Lead Wire Configuration: Single 3 or 4 wire
- Cable: 32 AWG Teflon® insulated wires with Teflon® shrink jacket
- Cleanability: 316 stainless steel sheath and Teflon® cable construction

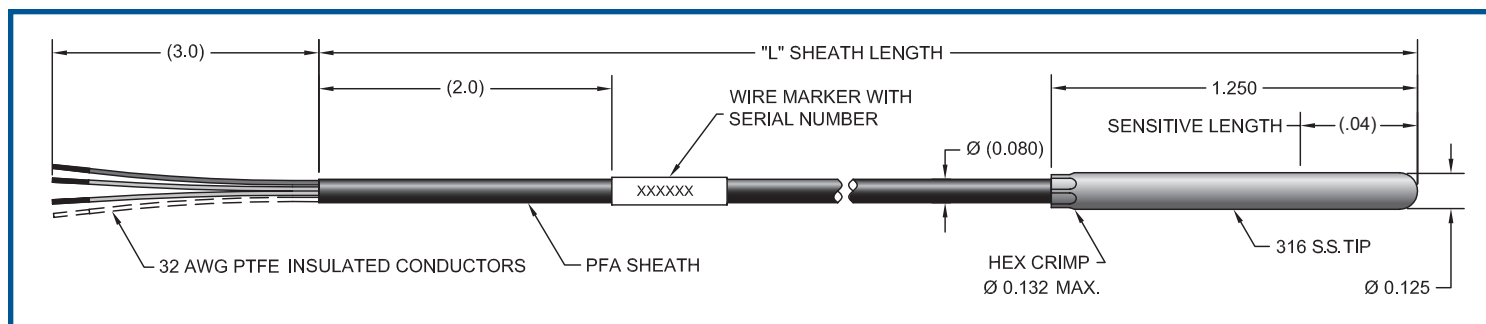
Specifications:

- Element Configuration: Single, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Temperature Range: -196°C to 200°C
- Cable Limits: -196°C to 200°C continuous exposure
- R0 interchangeability: $R_0 \pm 0.05$ ohms
- Short-Term Repeatability and Hysteresis: $\pm 0.025^\circ\text{C}$ (0.01 ohms) maximum change at 0°C over any 5 consecutive thermal cycles from -196°C to 200°C
- Repeatability: $\pm 0.05^\circ\text{C}$ (0.02 ohms) maximum shift at 0°C after 10 cycles between -196°C and 200°C
- Insulation Resistance: 10 mega-ohms minimum at 100 VDC at room temperature

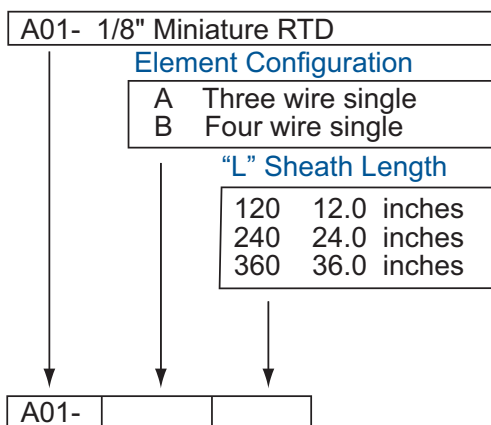


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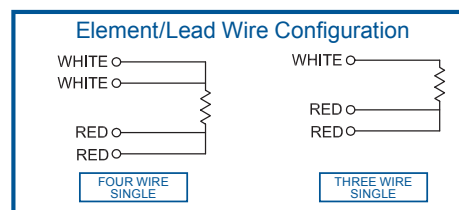
Ordering Information



All dimensions in inches



NOTE: For longer cable lengths please refer to A05.



Customized miniature sensors,
designed for your application.

Surface Mount

Adapts to a variety of surface temperature measurement applications. The stainless steel cup allows the sensor to be glued or clamped in place on nearly any surface.

Contact us to discuss your specific application.