

A02 | 3/16" Miniature RTD

Specifications

Originally designed for the pharmaceutical and biotechnology world as a freezer sensor, the A02 meets the accuracy and repeatability demands of a highly regulated industry while maintaining a very small profile. Equally precise at elevated temperatures, the A02 combines the accuracy of a full-size sensor in a reduced size to easily reach your most critical temperature measurement points.

Features and Benefits:

- **Application:** Direct or indirect immersion in subzero and elevated temperature applications. Easily “snaked” into guide tubes and difficult to reach measurement points.
- **Accuracy:** Precision, 0.05% and Standard, 0.10%
- **Sheath:** 316 stainless steel, 0.188" diameter, 1.250" length
- **Sensitive Length:** 0.40"
- **Element/Lead Wire Configuration:** Single 3 or 4 wire
- **Cable:** 22 AWG stranded PTFE insulated wires with PFA jacket
- **Cleanability:** 316 stainless steel sheath and PFA cable jacket

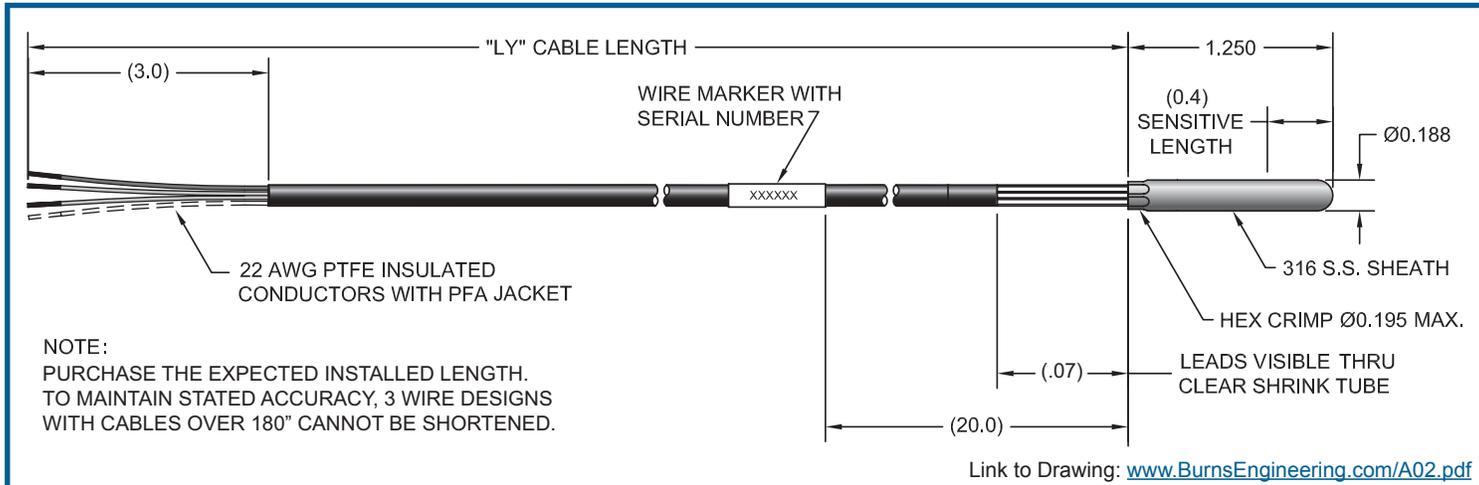
Specifications:

- **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: $\pm 0.05^\circ\text{C}$ (0.02 Ω)
 - » Standard Accuracy: $\pm 0.10^\circ\text{C}$ (0.04 Ω)
- **Long Term Stability:** Maximum change at 0°C after 1000 hour soak at 200°C
 - » Precision Accuracy: $\pm 0.03^\circ\text{C}$ (0.01 Ω)
 - » Standard Accuracy: $\pm 0.26^\circ\text{C}$ (0.10 Ω)
- **Insulation Resistance:** 10 mega-ohms minimum at 100 VDC at room temperature



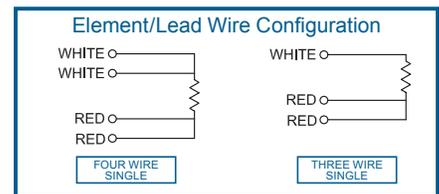
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Ordering Information



All dimensions in inches

A02- 3/16" Miniature RTD			
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" Cable Length			
060 60.0 inches			
120 120.0 inches			
180 180.0 inches			
240 240.0 inches			
Specify Cable Length in 12 inch increments			
A02-			



Example Part Number: A02-05A120



Customized miniature sensors, designed for your application.

Surface Mount

Installs easily on any pipe or tube with a standard hose clamp. Radius groove in housing matches tube or pipe diameter to insure good contact and heat transfer.

Contact us to discuss your specific application.