

# prosense® RTD Cuttable Length Probe

**RTD1-V24L06-01**

## Overview

- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- 1/4" diameter, 316 SS sheath to protect against harsh environments
- 24" probe length can be cut using an ordinary tubing cutter to adapt to the application
- Mounting is accomplished using a variety of ProSense compression fittings
- 2-foot Kapton insulated leadwires
- Made in the USA

## RTD Cuttable Length Probe

| Part Number           | Pcs/Pkg | Wt (lb) | Price   | Type                    | Probe Diameter (O.D.) | Probe Length                   | Probe Material      | Temperature Sensing Range      | Mounting   |
|-----------------------|---------|---------|---------|-------------------------|-----------------------|--------------------------------|---------------------|--------------------------------|--|
| <b>RTD1-V24L06-01</b> | 1       | 0.44    | \$55.00 | PT 100, Class A, 3-wire | 1/4"                  | 24"<br>(4" minimum cut length) | 316 stainless steel | -40 to 316°C<br>(-40 to 600°F) | ProSense compression fitting(see accessories purchased separately) |

## Technical Specifications

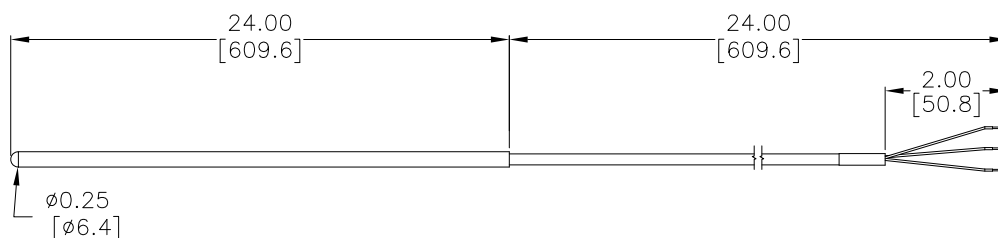
|                                   |  |
|-----------------------------------|--|
| <b>Sensing Element</b>            | Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385 Ω/Ω/°C          |
| <b>Initial Accuracy</b>           | Class A ±[0.15 +0.002  t ] °C  |
| <b>Probe</b>                      | 1/4" O.D., 316 stainless steel sheath                                |
| <b>Minimum Installation Depth</b> | 3" (76mm)  |
| <b>Probe Minimum Bend Radius</b>  | Not bendable   |
| <b>Response Time</b>              | 7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)              |
| <b>Wiring</b>                     | 2 foot solid 24 AWG wire leads with stripped ends, Kapton insulation |



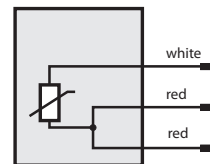
*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

## Dimensions

inches [mm]



## Wiring Information



## Cutting Instructions

1. Remove the plastic retainer mounted to the top of outer metal tube.
2. Remove the inner sensing element and wires to prevent possible damage while cutting.
3. Cut the tube to the desired length and remove all burrs or sharp edges.
4. Reinstall the sensing element and plastic retainer.

Note: Ensure sensing element is fully seated at the base of the outer tube. If outer tube is compressed during installation it may not be possible to remove the sensing element.



# RTD Cuttable Length Probe - Accessories

## Accessories

| Part No.                          | Description  | Pcs/Pkg | Price   |
|-----------------------------------|--|---------|---------|
| <a href="#"><u>BCF14-125N</u></a> | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread   | 1       | \$3.25  |
| <a href="#"><u>BCF14-25N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread   | 1       | \$4.25  |
| <a href="#"><u>BCF14-50N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread   | 1       | \$6.50  |
| <a href="#"><u>CF14-125N</u></a>  | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread   | 1       | \$8.00  |
| <a href="#"><u>CF14-25N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread   | 1       | \$9.25  |
| <a href="#"><u>CF14-50N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread   | 1       | \$14.00 |
| <a href="#"><u>CFTF-14</u></a>    | Teflon™ ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes  | 5       | \$7.75  |
| <a href="#"><u>RTD-SP</u></a>     | RTD 3-pin connector, standard round pin plug, maximum continuous temperature 400°F (200°C), white body, copper pins, 14 AWG maximum (2.0 mm) wire size | 1       | \$9.25  |
| <a href="#"><u>RTD-SJ</u></a>     | RTD 3-pin connector, standard round pin jack, maximum continuous temperature 400°F (200°C), white body, copper pins, 14 AWG maximum (2.0 mm) wire size | 1       | \$12.00 |
| <a href="#"><u>WCB-S</u></a>      | Wire / cable clamp bracket for use with standard thermocouple and RTD connectors   | 4       | \$12.00 |

Note: RTD extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com)

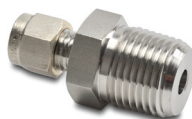
See end of section for full listing of accessories and dimension information.

\*Working pressure of compression fitting should not exceed 500 psi. However we recommend any pressure application use a thermowell

[CFTF-14](#)



[CF14-50N](#)



[CF14-25N](#)



[CF14-125N](#)



*S.S. Compression Fittings*

[BCF14-50N](#)



[BCF14-25N](#)

[BCF14-125N](#)



*Brass Compression Fittings*

[RTD-SJ](#)



[RTD-SP](#)



*RTD Connectors*