

prosense® RTD Probes with Attached Plug

RTD1-PXX-01



Overview

- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- 1/4" diameter, 316 stainless steel sheath to protect against harsh environments
- RTD element encased in alumina powder insulation provides excellent vibration dampening and heat transfer
- 6", 12", or 18" probe length
- Attached 3-pin plug for quick and easy wiring connections
- Made in the USA

RTD Probes with Attached Plug

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Probe Diameter (O.D.)	Probe Length	Temperature Sensing Range	Mounting	Attached Plug Size	Mating Jack
RTD1-P06-01	1	0.3	\$55.00	PT 100, 3-wire	1/4"	6"	-50 to 300°C (-58 to 572°F) Plug rated to 400°F (204°C)	ProSense compression fitting (see accessories, purchased separately)	Standard size, 3-pin	RTD-SJ (see accessories, sold separately)
RTD1-P12-01			\$59.00			12"				
RTD1-P18-01			\$62.00			18"				

Technical Specifications

Sensing Element	Single 100Ω platinum (Pt 100). 3-wire; TCR = 0.00385 Ω/Ω/°C
Initial Accuracy	Class A $\pm[0.15 + 0.002 t]$ °C
Probe	ø1/4", 316 stainless steel sheath, single RTD is embedded in alumina powder
Minimum Installation Depth	3" (76 mm)
Response Time	7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)
Wiring	Attached 3-pin standard size plug (mating jack sold separately, see accessories)

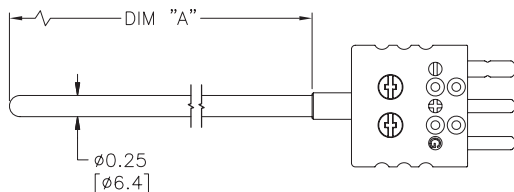


Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

Dimensions

inches [mm]

RTD1-PXX-01



Wiring Information

PT100: white plug
Pins labeled +, - and G

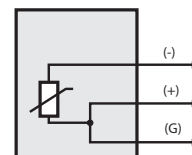


TABLE A

PART NUMBER	DIM "A"
RTD1-P06-01	6.00[152.4]
RTD1-P12-01	12.00[304.8]
RTD1-P18-01	18.00[457.2]

prosense® RTD Probes with Attached Plug - Accessories

Accessories

Part No.	Description	Pcs/Pkg	Price
<u>BCF14-125N</u>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	\$3.25
<u>BCF14-25N</u>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	\$4.25
<u>BCF14-50N</u>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	\$6.50
<u>CF14-125N</u>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	\$8.00
<u>CF14-25N</u>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	\$9.25
<u>CF14-50N</u>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	\$14.00
<u>CFTF-14</u>	Teflon™ ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes	5	\$7.75
<u>RTD-SJ</u>	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
<u>WCB-S</u>	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

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

[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