

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	\$48.50	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			\$52.00			12"				
RTD1-P18-01			\$55.00			18"				

Technical Specifications	
Sensing Element	Single 100Ω platinum (Pt 100). 3-wire; TCR = 0.00385 Ω/Ω/°C
Initial Accuracy	Class A ±[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)

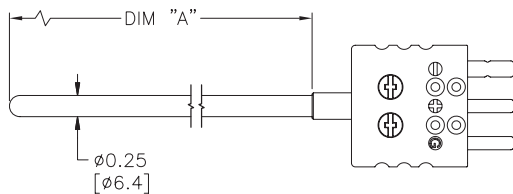


NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.

Dimensions

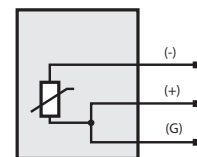
inches [mm]

RTD1-PXX-01



Wiring Information

PT100: white plug
Pins labeled +, - and G



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]

pro^{sense}® RTD Probes with Attached Plug - Accessories

Accessories

Part No.	Description	Pcs/Pkg	Price
BCF14-125N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	\$2.75
BCF14-25N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	\$3.25
BCF14-50N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	\$4.75
CF14-125N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	\$7.00
CF14-25N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	\$8.00
CF14-50N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	\$12.00
CFTF-14	Teflon™ ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes	5	\$7.25
RTD-SJ	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	\$9.25
WCB-S	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$5.50

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