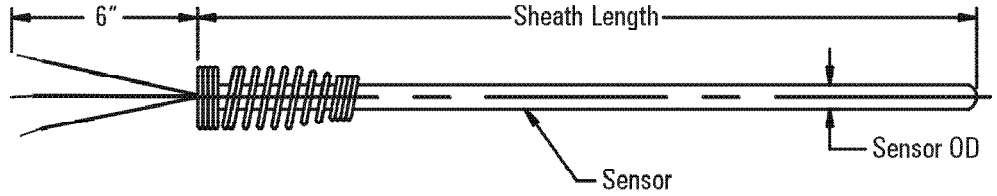


Industrial RTDs

All RTDs are 100% tested to insure that the accuracy and the continuity of the product have not been affected by the manufacturing process. The standard sheath material on all RTDs specified in this section is 316SS. Other sheath materials and coatings are available. Specify using model 1150 on page A-28. Elements are either thin film or wire wound, depending on the style RTD selected. Thin film elements are used in all constructions unless otherwise specified. Each RTD is supplied with a heavy duty spring.

Standard RTD Specifications:

Element Material: Platinum
Element Type: 100 ohms @ 0°C, .00385 DIN Curve
RTD Type: Three wire (Color code red, red, white)
Accuracy: Per ASTM E1137, Grade B
 To determine tolerance, use the following:



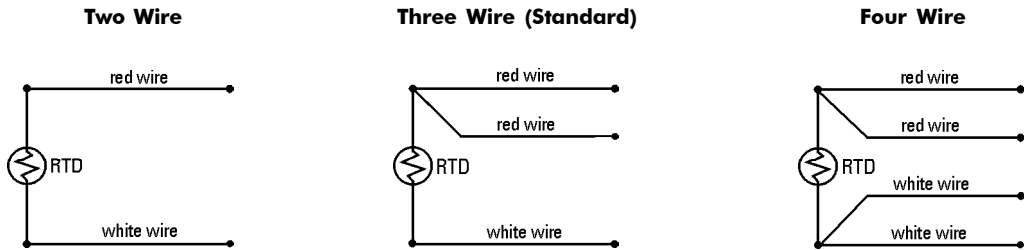
Grade A = $(\pm) = 0.13 + (0.0017 [t])^\circ\text{C}$
 Grade B = $(\pm) = 0.25 + (0.0042 [t])^\circ\text{C}$
 (where t =value of temperature without regard to sign.)

Design Types:

- PO** - This design uses nickel clad copper lead wire insulated with Teflon®. Maximum upper temperature rating of 500°F.
- PH** - Our high temperature version can be used up to 900°F, and uses fiberglass leads.
- PM** - Heavy duty applications is where this style should be specified. It is suited for temperatures up to 1100°F. Mineral insulated cable is used for this type RTD. Can be used in cryogenic applications at temperatures down to minus 200°F.
- RC** - 10 Ohm copper @ 25°C (SAMA) Color code: red, red, green.
- RN** - 120 Ohm nickel @ 0°C (Edison #7) Color code: red, red, black.

To order: Indicate the code letter or value for each specification criteria below.

Type	OD	Elements	Length ¹	Sheath Material	Options
PO	18 = 1/8"	S = Single	(Inches)	R = 316SS	TW = 2 Wire
PH	316 = 3/16"	D = Dual		A = Alloy 600	FW = 4 Wire
PM	14 = 1/4"				GA = Grade A
RC	38 = 3/8"				HV = High Vibration (PM)
RN					CR = Cryogenic (PM)



Note:

1. Length determined by assembly when used in well or protection tube. Specify length only for replacement elements. To determine the length for replacement RTD's use the following formula: U Length of well + T Length + A Length + 1" = Sensor length (See pages A-8 – A-23 for description of U, T & A lengths)