

# Resistance Temperature Detectors (RTDs)

Resistance Temperature Detectors (RTD's). These detectors are frequently used in the plastics industries and many others. Care must be taken to eliminate moisture and vibration effects can be troublesome as well. Thermo Sensors provides the utmost in current state of the art in materials, techniques and research.

Thermo Sensors offers the Reliatemp RTD. This RTD features lifetime moisture free use as well as excellent vibration resistance.

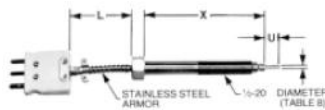
Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.



## Nozzle and Immersion Bolt Assemblies

Table 7

Figure 1 Immersion Bolt with Armor Extension



"X"	"U"	Order Code	"X"	"U"	Order Code
3"	***	R350-(U)***	6"	***	R350-(U)***
	Flush	R351		Flush	R351
	1/2"	R352		1/2"	R352
	1"	R353		1"	R353
4"	***	R354-(U)***	***	***	R354-(X)-U)***
	Flush	R355		Flush	R355
	1/2"	R356		1/2"	R356
	1"	R357		1"	R357
***Insert desired length of "U" in inches and/or "X" in inches. Example: R350-1/4; R3512-8-1/4					

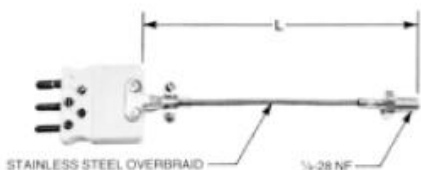
Figure 2 Immersion Bolt with Rigid Tube Extension



"X"	"U"	Order Code	"X"	"U"	Order Code
3"	***	R390-(U)***	6"	***	R398-(U)***
	Flush	R391		Flush	R399
	1/2"	R392		1/2"	R3910
	1"	R393		1"	R3911
4"	***	R394-(U)***	***	***	R3912-(X)-U)***
	Flush	R395		Flush	R3913-(X)
	1/2"	R396		1/2"	R3914-(X)
	1"	R397		1"	R3915-(X)

\*\*\*Insert desired length of "U" in inches and/or "X" in inches.  
 Example: R350-1/4; R3512-8-1/4

**Figure 3** Nozzle Bolt with Stainless Steel Overbraided Extension



Description	Fig. 3 (as shown)	Fig. 3 w/o. Male Plug
Description	R500	R501
Mating Female Connectors		
Order Mating Female Connectors as a Separate Item		
<b>Sensing Element</b>		<b>Order Part Number</b>
2-Wire		6000-U
3-Wire		6009-U

**Table 8**  
Sensor Diameter

Diameter	Order Code
1/8" (.125")	2
3/16" (.188) Standard	3
Do not use this table for "R500", "R501"	

**Table 9**  
Sensing Element

Sensor Type	Order Code	
	2-Wire*	3-Wire*
100 OHM Platinum .00385 T. C. (DIN43760) (Most commonly used)	A2	A3
Note: All sensor are $\pm 0.12\%$ @ °C Dual Elements are not available.		

**Table 10**  
**Temperature Range**

Temperature Range	Order Code
-50 to + 260°C -58 to + 500°F	L
-50 to + 260°C -58 to + 500°F	S

**Table 11**  
**"L" Dimension**

"L" Dimension	Order Code
Refer to Figures 1-3 and Specify "L" in inches and insert in ordering sequence. See "How to Order"	

**How to Order:**

Style	Sheath Diameter	Sensing Element	Temp. Range	Length
R353	3	A3	L	(X) Specify (L) "L" in Inches
Table 7	Table 8	Table 9	Table 10	Table 11