

Melt Bolt RTD

Melt Bolt RTD with Fixed Depth Immersion

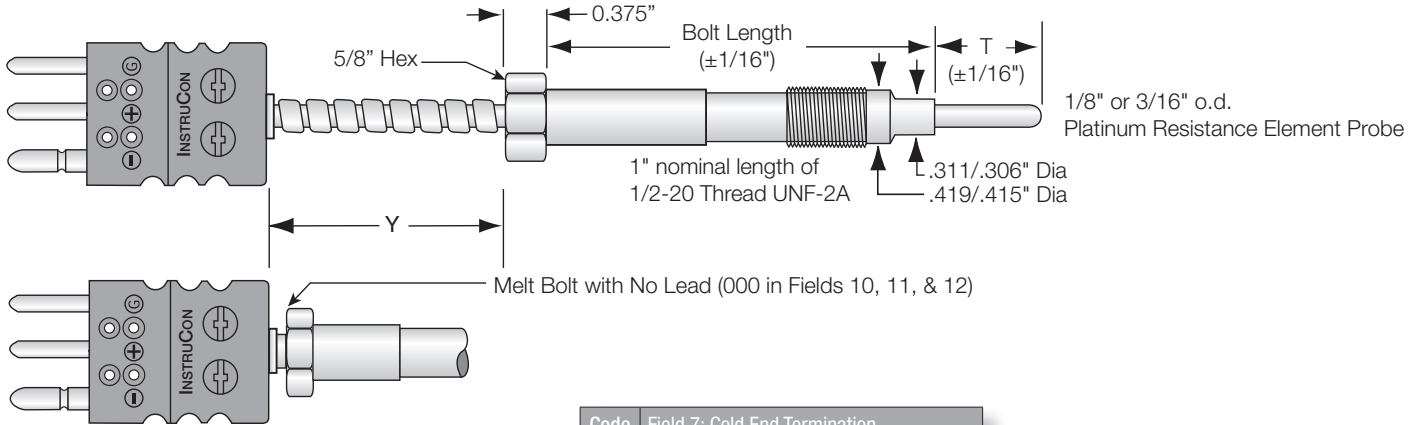
Melt bolt thermocouples are used on extruders and injection molding machines. The immersed RTD tip provides direct melt temperature measurement. Standard bolt lengths are 3", 4" and 6". Other lengths are available. Typically, 2" of protection tube ("Y" dimension) beyond the bolt head is satisfactory.

Platinum 100 ohms, RTD element. The tolerances shown below apply to all three lead probes, and two lead probes whose total length

does not exceed 48". Tolerances for two lead probes longer than 48" are increased .03 ohm to reach 12" over 38" length:

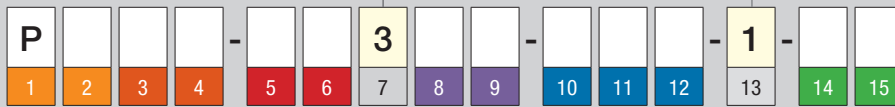
Temperature Range: -148° to 932°F (-100 to 500°C), reduced to 350°F (176°C) for plug connector. Insulation resistance: 100 meg-ohms minimum at 100 Vdc; leads to case.

Pressure Capacity: 10,000 PSI on sensing element.



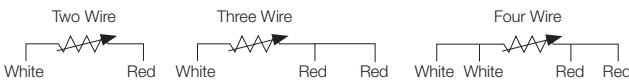
Code	Field 7: Cold End Termination
3	Solid pin quick disconnect plug

Code	Field 13: Style
1	Melt Bolt



Field 1, 2	Code	RTD Base	Resistance Value
	P5	0.00391 Ω/Ω/°C with RTD Bulb	Pt 100 Ω
	P7	0.00385 Ω/Ω/°C with Thin Film RTD Element	Pt 100 Ω
	PK	0.00385 Ω/Ω/°C with Thin Film RTD Element	Pt 1000 Ω

Fields 3, 4	Accuracy	Code	Temp.	Wires	Field 4: Element Compatibility
	0.25%	31	932°F	3 wire	Single
		51	932°F	2 wire	Single
		54	932°F	2 wire	Dual Element (four wire)
0.1%	21	932°F	3 wire	Single	



Fields 5, 6	Code	Protection O.D.
	42	1/8" O.D. Tip
	52	3/16" O.D. Tip

Fields 14, 15	Code	Tip Length (Dimension "T")
	00	None
	05	1/2"
	07	3/4"
	09	1"
99	Not listed. Specify on order. 99 = "Length" 1/16" minimum for T/C's with MgO Insulation; 1/8" minimum for T/C's with fiberglass insulation.	

Fields 10, 11, 12	Code	Flexible Length
	YYY	Dimension "Y" (Specify YYY in whole inch increments, using three digits) NOTE: If over 998", specify 999 = "length" on order
	000	No lead. Cold end termination plug (Field 7, code 3 or 4) on end of bolt (see illustration). Not available on dual element thermocouple with MgO Insulation.

Fields 8, 9	Code	Bolt Length
	03	3"
	04	4"
	06	6"
	99	None above, specify on order 99 = "Length"