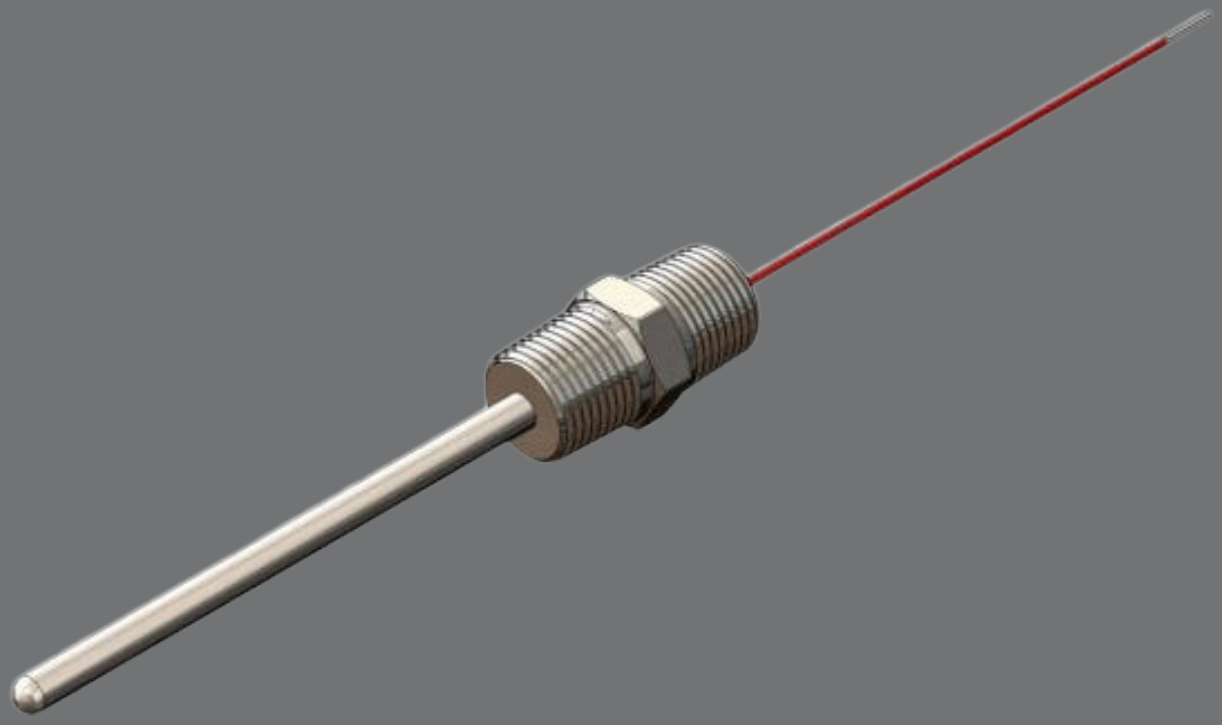
Model 201 and 203 RTDs with welded fittings



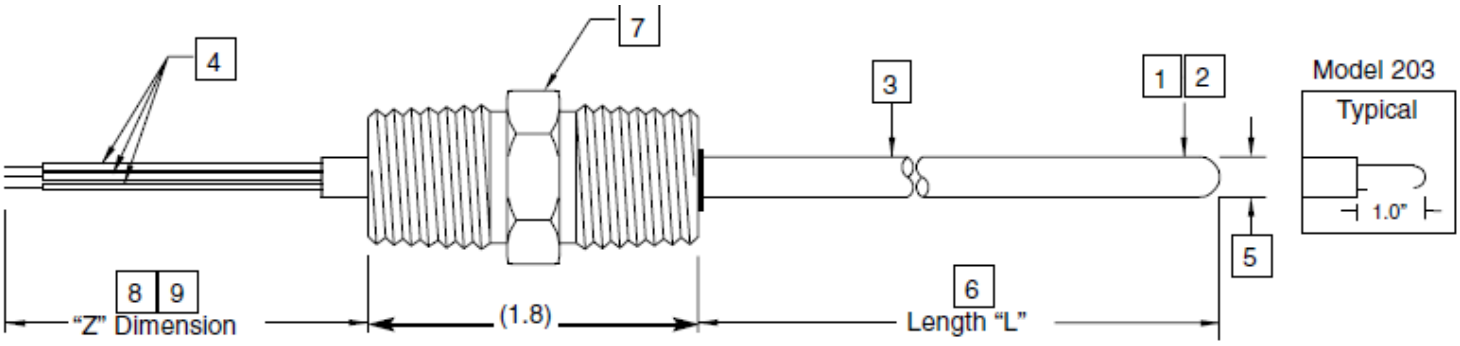
Key features

- Model 201 is a straight sheath temperature sensor - refer to Model 101 if mounting fitting is not required, refer to 300 Series if spring loading is required for thermowell applications
- Model 203 is a reduced tip/fast response temperature sensor - refer to Model 103 if mounting fitting is not required.

Overview

Designed for direct immersion applications where a male fitting is required for mounting, for use in tanks, stacks, pressure vessels and similar applications. Sensors are supplied with a threaded hex fitting which is welded to the sheath of the RTD providing a pressure seal for process applications where pressure and flow are moderate.

Technical specification



1. Model	Base Model/Series Number	
2. A. Accuracy:	*Standard*	Class B (no code)
	High	Class A (code H)
	Special	Customer Specified (code S)
	* Industry Standard is DIN Curve (code 01B), Platinum, 100 @ 0°C. Conforms to IEC 751.	
B. TCR:	Temperature Coefficient of Resistance is the temperature vs. resistance characteristics of a given metal (Pt, Cu & Ni) used in manufacturing the RTD. Determines the curve of the RTD.	
C. Ice Point Resistance:	R_0 - Resistance at 0°C (32°F)	
D. Response Time :	Dependent on sheath diameter, the smaller the diameter - the faster the response. See RTD General Specs.	
3. Construction:	Code A - 316SS tube and wire construction, thin film element, teflon insulated lead wire. Code C - 316SS tube and wire construction, fiberglass insulated lead wire. Code B & D - MgO construction, Teflon insulated lead wire.	
4. Lead Wires:	3 - Wire: W R R 4 - Wire: W W R R 6 - Wire (Dual 3 - Wire): W R R Y BK BK 8 - Wire (Dual 4 - Wire): W W R R Y Y BK BK	
5. Sheath Diameter:	.250" (1/4") is industry standard. Code C/N for reduced tip design.	
6. Sheath Length:	Length from bottom of fitting to tip of sensor.	
7. Welded Fitting:	Specify fitting size and style that suits application.	
8. Lead Wire Length:	Length of wire beyond the sheath.	
9. Lead Wire Protection:	Stainless Steel Overbraid or Stainless Steel Armor. Order length at 3-6" shorter than lead wire length. Example: Z024-X020	
10.Water resistant:	Increases moisture protection for humid environments.	

Technical specification

Model	Description
201	**RTD with Welded Fitting**
203	**Reduced Tip/Fast Response RTD with Welded Fitting**

1

Code	R_O & Temperature Coefficient			
01B	**100 ohm Platinum**	**.00385055**	**TCR**	**100 ohms @ 0° C - Industry Standard**
01A	100 ohm Platinum	.003902	TCR	100 ohms @ 0° C
10A	1000 ohm Platinum	.003902	TCR	1000 ohms @ 0° C
10B	1000 ohm Platinum	.00385055	TCR	1000 ohms @ 0° C
12N	120 ohm Nickel	.00672	TCR	120 ohms @ 0° C
09C	10 ohm Copper (9.035)	.004274	TCR	10 ohms @ 25° C

Add Code "H" for higher accuracy
Add Code "S" for special accuracy
Add Code "M_", ME for matched to element, MT for matched to transmitter, MP for two matched probes.

2

Code	Construction Temperature Limit
A	500° F Maximum
C	900° F Maximum (Platinum Only)
D	1200° F Maximum (Platinum Only)
B	1700° F Maximum (Platinum Only)

3

Code	Number of lead Wires	For Models
2	2-Wire (No lead Compensation)	All
3	3 Wire (Lead Compensation)	All
4	4-Wire (Complete Compensation)	All
6	Dual 3-Wire (With dual element)	201
8	Dual 4-Wire (With dual element)	201

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Code	Sheath Diameter	For Models
A	.125" (1/8") Diameter	201
B	.187" (3/16") Diameter	201
C	.250" (1/4") Diameter	201
C/N	.250" (1/4") Dia. Sheath/.156" Dia. Tip	203
Other	Consult factory	

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Code	Sheath Length
XXX.X	Specify length to nearest 0.1"

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Code	Welded Fittings (Stainless Steel)
A1	1/4" NPT Hex Nipple
A2	1/2" NPT Hex Nipple
A3	1/8" NPT Hex Nipple
A4	3/4" NPT Hex Nipple
B1	1/4" NPT Hex Plug (threads toward tip)
B2	1/2" NPT Hex Plug (threads toward tip)
B3	1/8" NPT Hex Plug (threads toward tip)
B4	3/4" NPT Hex Plug (threads toward tip)
C1	1/4" NPT Hex Plug (threads toward leads)
C2	1/2" NPT Hex Plug (threads toward leads)
C3	1/8" NPT Hex Plug (threads toward leads)
C4	3/4" NPT Hex Plug (threads toward leads)

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Code	Lead Wire Length
Z006	6" - Standard with head
Z024	24" - Standard without head
ZXXX	Other - consult factory

8

Code	Lead Wire Protection
X___	Stainless steel overbraid - (specify inches)
Y___	Stainless steel armor - (specify inches)
Other	Consult factory

9

Code	Option
W	Water Resistant

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201	-	01B	-	A	-	3	-	C	-	012.0	-	A2	-	Z024	-	X020	-	Sample Model Number
	-		-		-		-		-		-		-		-		-	Your Model Number

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