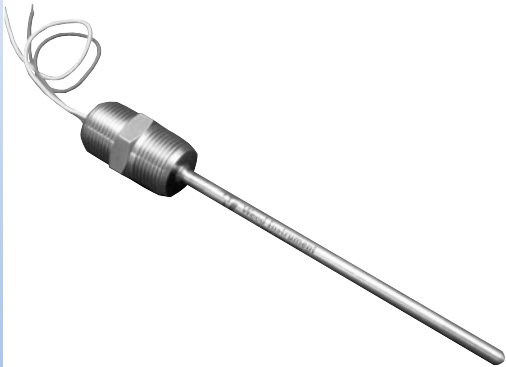


## Models 201 & 203 Thermocouples With Welded Fittings

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

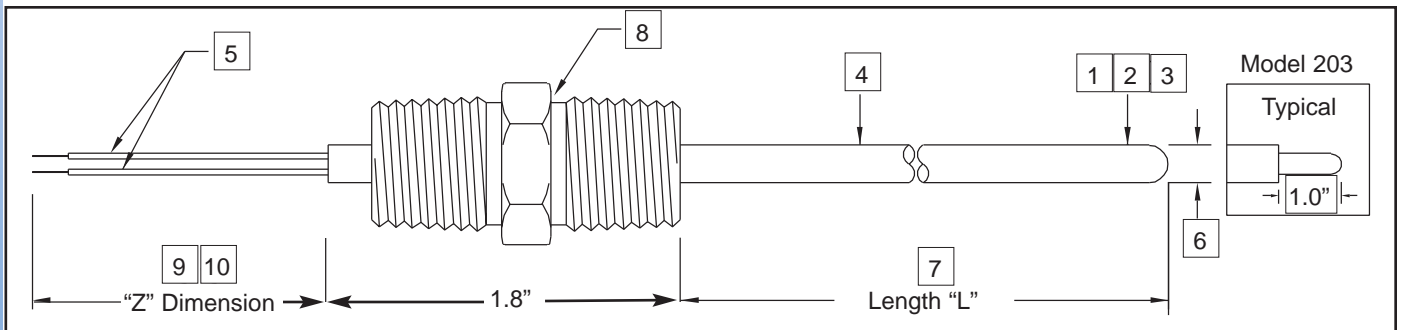


**Model 201** is a Direct Immersion temperature sensor.

- 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 Direct Immersion, Reduced Tip/Fast Response temperature sensor.

- Refer to Model 103 if mounting fitting is not required.



### Specifications:

1. Base Model	Base Model/Series Number
2. A. Accuracy:	ANSI Special Limits of Error is standard. See Thermocouple General Specifications.
B. Type:	Application dependent. See Thermocouple General Specifications.
C. Response Time:	Dependent on sheath diameter and measuring junction. See Thermocouple General Specifications.
D. Tip Sensitivity:	Thermocouples are inherently tip sensitive.
3. Grounded:	At the tip, thermocouple wires are attached to inside of probe wall, resulting in quick response time.
Ungrounded:	At the tip, thermocouple wires are insulated from the inside of probe wall, results are a slower response time but increased isolation.
Exposed:	Thermocouple junction protrudes out of sheath tip, results are quickest response time, but limited to use in non-corrosive, non-pressurized applications.
4. Construction:	Code A - 316SS tube construction, teflon insulated lead wire. Code C - 316SS MgO construction, fiberglass insulated lead wire. Code B - Inconel sheathed MgO construction, fiberglass insulated lead wire.
5. Lead Wires:	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Single</p> </div> <div style="text-align: center;"> <p>Dual</p> </div> </div>
6. Sheath Diameter:	.250" (1/4") is industry standard.
7. Sheath Length:	From bottom of fitting to tip of sensor.
8. Welded Fittings:	Specify fitting size and style that suits application.
9. Lead Wire Length:	Length of wires beyond sheath.
10. Lead Wire Protection:	Stainless Steel Overbraid or Stainless Steel Armor. Order length at 3-6" shorter than lead wire length. Example: Z024-X020

Model	Description		
201	Thermocouple with Welded Fitting		
203	Reduced Tip/Fast Response Thermocouple with Welded Fitting		
<b>1</b>	<b>Code</b>	<b>Thermocouple Type</b>	<b>Range</b>
	J	Type J Thermocouple	32 to 1400°F ( 0 to 760°C)
	K	Type K Thermocouple	-328 to 2300°F (-200 to 1260°C)
	T	Type T Thermocouple	-328 to 700°F (-200 to 371°C)
	E	Type E Thermocouple	-328 to 1600°F (-200 to 871°C)
	R	Type R Thermocouple	32 to 2700°F ( 0 to 1482°C)
	S	Type S Thermocouple	32 to 2700°F ( 0 to 1482°C)
	B	Type B Thermocouple	32 to 3100°F ( 0 to 1704°C)
N	Type N Thermocouple	-454 to 2372°F (-270 to 1300°C)	
Add "MT" for matched to transmitter. See Thermocouple General Specifications.			
<b>2</b>	<b>Code</b>	<b>Junction Type</b>	
	G	Grounded	
	U	Ungrounded	
<b>3</b>	<b>Code</b>	<b>Temperature Range</b>	
	A	500° F Maximum	
	C	1600° F Maximum	
<b>4</b>	<b>Code</b>	<b>Number of Lead Wires</b>	
	2	Single Thermocouple	
<b>5</b>	<b>Code</b>	<b>Sheath Diameter</b>	<b>Model</b>
	A	.125" Diameter	201
	B	.187" Diameter	201
	C	.250" Diameter	201
	C/N	.250" (1/4") Diameter / .156" Diameter Tip	203
	A/G	.125" (1/8") Diameter / .063" Diameter Tip	203
	Other	Consult factory	
<b>6</b>	<b>Code</b>	<b>Sheath Length</b>	
	XXX.X	Specify length to nearest 0.1".	
<b>7</b>	<b>Code</b>	<b>Welded Fittings</b>	
	A1	1/4" NPT Hex Nipple - 316 Stainless Steel	
	A2	1/2" NPT Hex Nipple - 316 Stainless Steel	
	A3	1/8" NPT Hex Nipple - 316 Stainless Steel	
	A4	3/4" NPT Hex Nipple - 316 Stainless Steel	
	B1	1/4" NPT Hex Plug (threads toward tip) - 316 Stainless Steel	
	B2	1/2" NPT Hex Plug (threads toward tip) - 316 Stainless Steel	
	B3	1/8" NPT Hex Plug (threads toward tip) - 316 Stainless Steel	
	B4	3/4" NPT Hex Plug (threads toward tip) - 316 Stainless Steel	
	C1	1/4" NPT Hex Plug (threads toward leads) - 316 Stainless Steel	
C2	1/2" NPT Hex Plug (threads toward leads) - 316 Stainless Steel		
C3	1/8" NPT Hex Plug (threads toward leads) - 316 Stainless Steel		
C4	3/4" NPT Hex Plug (threads toward leads) - 316 Stainless Steel		
<b>8</b>	<b>Code</b>	<b>Lead Wire Length</b>	
	Z003	3" - Standard with head	
	Z024	24" - Standard without head	
	ZXXX	Other - consult factory	
<b>9</b>	<b>Code</b>	<b>Lead Wire Protection</b>	
	X__	Stainless steel overbraid-(specify inches)	
	Y__	Stainless steel armor-(specify inches)	
<b>10</b>	Other		Consult factory
	Sample Model Number		
Your Part Number			

201 - J - G - C - 2 - C - 012.0 - A2 - Z024 - X020

Sample Model Number  
Your Part Number

