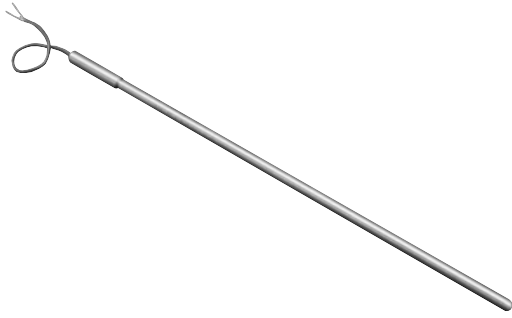


Models 101 & 103 General Purpose Thermocouple

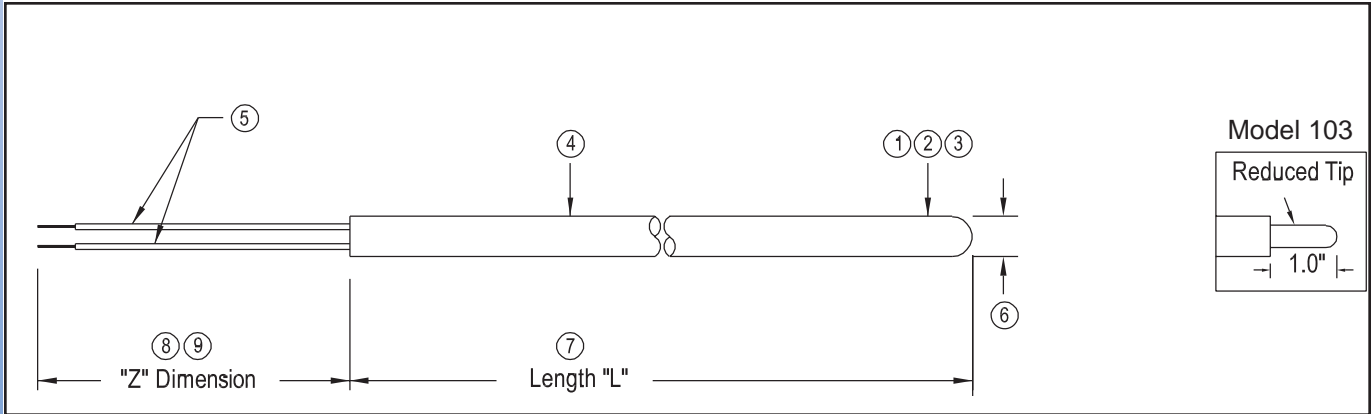


Model 101 is a Straight Sheath temperature sensor.

- Refer to Model 201 if welded fitting is required.
- Refer to 300 Series if spring loading is required.

Model 103 is a Reduced Tip/Fast Response temperature sensor.

- Refer to Model 203 if welded fitting is 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. Use code C/N for reduced tip design.
7. Sheath Length:	Entire stem length.
8. Lead Wire Length:	Length of wires beyond the sheath. Use Z000 if connector is installed directly on the end of 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. Connectors:	Optional male plug for sensor end. For mating jack add code "J".
11. Optional Fittings:	Sensor is not supplied with mounting hardware, specify optional fitting.

Model	Description			
101	General Purpose Thermocouple (Non-Spring Loaded)			
103	Reduced Tip/ Fast Response Thermocouple (Non-Spring Loaded)			
1	Code	Thermocouple Type	Range	
	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.			
2	Code	Junction Type		
	G	Grounded		
	U E	Ungrounded Exposed		
3	Code	Construction Temperature Limit		
	A	500° F Maximum		
	C B	1600° F Maximum 2300° F Maximum		
4	Code	Number of Lead Wires		
	2 4	Single Thermocouple Dual Thermocouple		
5	Code	Sheath Diameter	Model	
	A	.125" Diameter	101	
	B	.187" Diameter	101	
	C	.250" Diameter	101	
	C/N	.250" (1/4") Diameter / .156" Diameter Tip	103	
	A/G Other	.125" (1/8") Diameter / .063" Diameter Tip Consult factory	103	
6	Code	Sheath Length		
	XXX.X	Specify length to nearest 0.1"		
7	Code	Lead Wire Length		
	Z003	3" - 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	Connectors		
	P1	Standard Size, Standard Temperature		
	P2	Standard Size, High Temperature		
	P3	Miniature, Standard Temperature		
	P4	Miniature, High Temperature		
	(add /"J" for optional mating jack)			
	Code	Optional Fittings		
	A1S	Compression:	1/8" Sheath x 1/8" NPT SS	
	B1S		3/16" Sheath x 1/8" NPT SS	
	B2S		3/16" Sheath x 1/4" NPT SS	
C1S		1/4" Sheath x 1/8" NPT SS		
C2S		1/4" Sheath x 1/4" NPT SS		
C3S		1/4" Sheath x 1/2" NPT SS		
NS1		1/4" Sheath x 1/2" NPT Hex Nipple		
NS2		3/16" Sheath x 1/2" NPT Hex Nipple		
NS3		1/8" Sheath x 1/2" NPT Hex Nipple		
310	Spring-Loaded:	Spring loaded Hex Fitting Kit		
FS5		1/4" Sheath 1/2" X 1/2" Hex Fitting With Adjustable Fluid Seal		
Other		Consult Factory		

101	-	J	-	G	-	C	-	2	-	C	-	012.0	-	Z024	-	X020	-	-	-	NS1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Model Number
Your Model Number