MP3 Pocket Junction Multipoint Thermocouple

Specifications

MP3	Pocket Junction Multipoint Thermocouple
Pocket Junction Multipoint thermocouple probes are very similar to MP2 OMP MultiPoint's. They utilize a specialized MI cable that contains multiple thermocouple wire pairs. Ungrounded uncommon thermocouple junctions are created along the sensor sheath by accessing the conductors through the sheath wall and then re-sealing the sheath wall. Multiple points can be arranged along the length of the sheath with great accuracy.	

Common Sheath Materials	
316/L stainless steel	Inconel 600
310 stainless steel	Consult factory for other

Thermocouple Types	Type K & N standard
Thermocouple Junction	Ungrounded
Thermocouple Tolerance	Special / standard limits of error

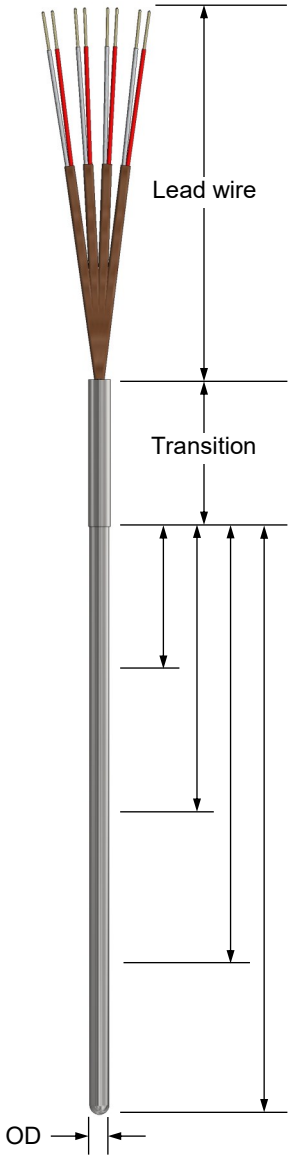
Sheath OD & Maximum Points Lengths			
OD	**Tolerance**	**Max Pts.**	**Max Length**
0.125”	+/- 0.002”	7	1600 feet
0.188”	+/- 0.002”	8	700 feet
0.250”	+/- 0.002”	8	400 feet
0.313”	+/- 0.003”	8	250 feet

Dimensional Information			
Number of points	**Wall Thickness % of Diameter**	**Outer Wire Size % of Diameter**	**Inner Wire Size % of Diameter**
2-4	11.8%	11.0%	15.5%
5-7	11.8%	8.5%	11.7%
8	11.8%	8.0%	10.3%

Transition Size	
# Points	OD x Length
2-4	0.5” x 1.5”
5-7	0.75” x 3.0”
8	0.75” x 3.0”

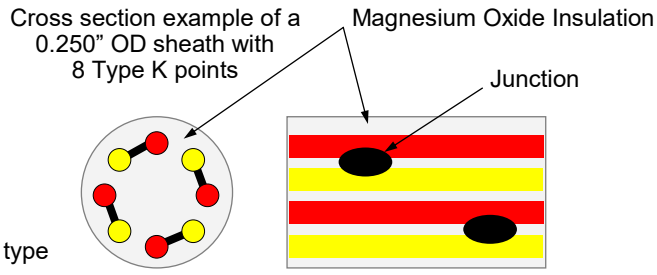
Lead Wire
Teflon (260°C)
Teflon /w SS braid
Flex armour over Teflon
Fiberglass (482°C)
Fiberglass /w SS braid
Flex armour over Fiberglass

Outline & Dimensions



Points are measured from transition bottom Minimum distance between points is 1.0”

Point location tolerance is +/- 1.0” or 0.3% of length (which ever is greater)



NOTES:
1. Drawing for approval provided after receipt of order
2. Temperature rating reflective of sheath material and thermocouple type
3. Transition filled with epoxy resin 175°C maximum temperature
4. Pressure rated to 1000 psi
5. Minimum bend radius is 10x sheath OD
6. Sensors longer than 6 feet will be shipped in a coil roughly 24”- 36” OD

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