

MP4 Multipoint Thermocouple & RTD Probe

Specifications

MP4 Multipoint Thermocouple & RTD Probes

The MP4 Multipoint RTD & Thermocouple Probe is an effective lower cost solution for milder process conditions. Multiple RTD and thermocouple sensors are combined together into an overall sensor sheath. The individual sensors inside are constructed from either Teflon or fiberglass insulated wires. They will provide the same accuracy as MI built sensors, however the limiting temperature rating factor will be the wire insulation. Excess space in the sensor assembly will be take up with aluminum oxide powder.

Common Sheath Materials

316/L stainless steel	Inconel 600
Hastelloy C	Consult factory for other

Temperature Sensor Type

100Ω Pt. 385 class A (3-wire & 4-wire)
Type K thermocouple
Type J thermocouple
Type T thermocouple
Type N thermocouple

Sensor Construction

Low temperature (-50 to 260°C)
High temperature (485°C)

Sheath OD, Maximum Points & Transition Size

Sheath OD	Max. Points	Transition OD x L
0.250"	3	0.313" OD x 2"
0.375"	10	0.500" OD x 4"
0.500"	20	0.625" OD x 4"

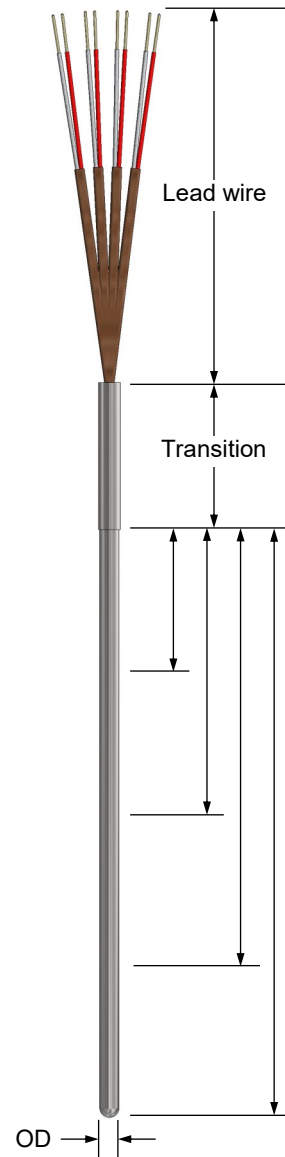
Lead Wire

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

NOTES:

1. Drawing for approval provided after receipt of order
2. Transition filled with epoxy resin 175°C maximum temperature
3. Pressure rated to sensor sheath (tubing) specifications
4. Minimum bend radius is 10x sheath OD
5. Sensors longer than 6 feet will be shipped in a coil roughly 24"- 36" OD

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)

Cross section example of a 0.375" OD sheath with 4 sensor points

