



FEATURES:

- Customer specification or made from stock materials
- Virtually unlimited options
- Available in Point Matched or Interchangeable tolerances.

CP Series probes are designed to meet your specific application requirements. Custom probe designs have virtually unlimited options available. Their value-added features significantly reduce your labor costs. Contact our applications engineering personnel for assistance in designing a probe from standard components listed on the following page or your options of choosing a multitude of other materials.

SPECIFICATIONS

Temperature rating/ recommended operating ranges

CP Series thermistor probes may be intermittently cycled at temperatures from -50°C to 105°C . Optimum stability is achieved when they are stored at temperatures less than 50°C and operated continuously in temperatures less than 100°C . For Interchangeable CP thermistor probes, optimum stability is achieved when they are operated at temperatures within the specified temperature range.

R/T curves

CP Series thermistor probes are available in all R/T curve materials. Detailed curve material information on pages 23-25

Tolerances

- $\pm 0.10^{\circ}\text{C}$
- $\pm 0.20^{\circ}\text{C}$
- $\pm 0.25^{\circ}\text{C}$
- $\pm 0.50^{\circ}\text{C}$
- $\pm 1.00^{\circ}\text{C}$
- $\pm 1\%$
- $\pm 2\%$
- $\pm 3\%$
- $\pm 5\%$
- $\pm 10\%$

| Wires | Configuration | Gauge | Insulation |
|---|------------------|-------|--------------------|
|  | Single Conductor | 18-26 | PVC, Etched Teflon |
|  | Zipcord | 24 | PVC |
|  | Jacketed | 22-24 | PVC |
|  | Twisted | 22-24 | PVC, Etched Teflon |

Custom Thermistor Probes

CP Series

| Housings | Type | Material |
|----------|--|--|
| | 1/8" NPT fitting round, close-end tube | 316 Stainless Steel |
| | End-end cup | PVC |
| | Flat, closed-end cup | Delrin |
| | Ring lug terminal, #6 | Steel, Copper |
| | Flag terminal, #6 | Steel, Copper |
| | End-end cup | 304 Stainless Steel A=.125" B=4" 316 Stainless Steel A=.250" B=3" |
| | 1/8" NPT plug | Alumium |
| | Open-end tube | Aluminum, Brass, Stainless Steel |
| | End-end cup | 304 Stainless Steel |
| | Tapered-end tube | 304 Stainless Steel |

Custom Thermistor Probes

CP Series - Standard Wire and Probe Materials

CP XXXX

IN= Interchangeable
PM=Point Matched

R/T CURVE
 A=Curve A F=Curve F P=Curve P
 B=Curve B G=Curve G
 C=Curve C H=Curve H
 D=Curve D J=Curve J
 E=Curve E K=Curve K

PM TYPE ONLY
Resistance in Ohms @ 25°C
 0300=300ohms
 001K=1Kohms
 005K=5Kohms
 006K=6Kohms
 010K=10Kohms
 100K=100Kohms
 2252=2252ohms
 1MEG=1MEGohms

IN TYPE ONLY
Tolerance @25°C
 A=±1.0°C
 B=±0.5°C
 C=±0.2°C
 D=±0.1°C
 X=new letter assigned on specials

PM TYPE ONLY
Tolerance @ 25°C
 1=±1% 5=±5%
 2=±2% 0=±10%
 3=±3% A=±0.25°C
 x=letter or digit B=±0.50°C
 to be assigned on specials

IN TYPE ONLY
Temperature Ranges
 1=+20°C to 45°C
 2=-20°C to 50°C
 3= 0°C to 70°C
 4= 0°C to 100°C
 5=+20°C to 90°C
 6=-40°C to 40°C
 7=+50°C to 125°C
 8= 0°C to 50°C
 9=-20°C to 125°C
 x=new digit assigned on specials

PM TYPE ONLY
Point Matched Temperatures
 1=-20°C
 2= 0 °C
 3= 25°C
 4= 37°C
 5= 70°C
 6=100°C
 X=digit to be assigned on specials

SERIAL NUMBER ASSIGNED FOR PROBE & LEAD COMBINATIONS