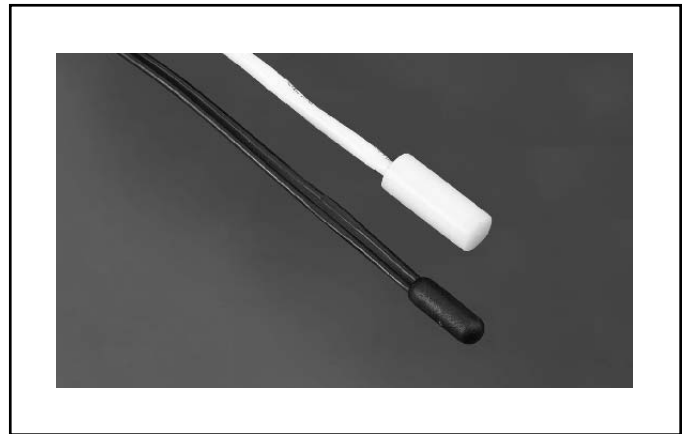
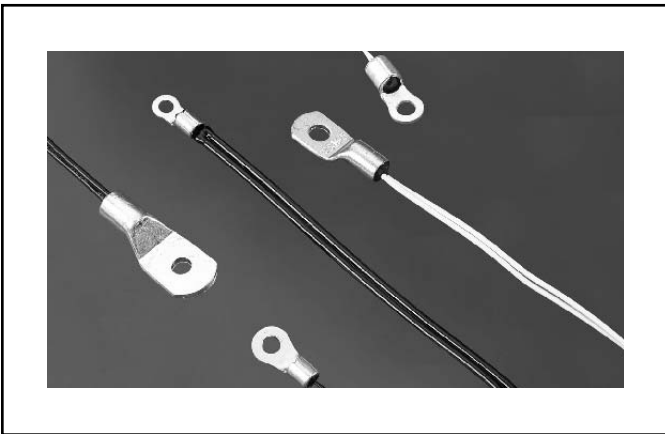
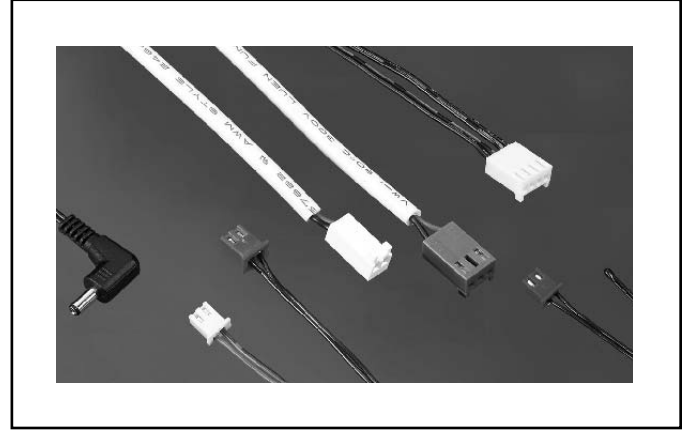
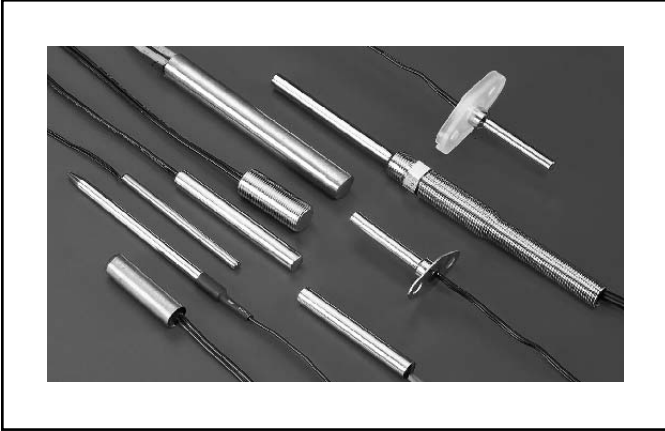


Custom Thermistor Probes

CP Series



Temperature Sensor Applications

Household Appliances

- Dryers
- Heaters
- Toasters
- Refrigerators
- Coffee Makers
- Air Conditioners
- Washing Machines

Other Consumer Electronics

- Cooling Fan
- Battery Pack
- Wireless Card
- Audio Amplifiers
- Cellular Telephones
- Pool and Spa Control

Medical Electronics

- Infant Incubators
- Blood Analysis Equipment
- Skin Temperature Monitors
- Internal Temperature Sensor
- Respiration Rate Measurement
- Electronic Clinical Thermometer

Automotive

- Hybrid Battery Sensor
- Water / Oil Tank Sensor
- Automatic Climate Control
- Outside Air Temperature Sensor
- Engine Block Temperature Sensor

Industrial Electronics

- Fire Detectors
- Solar Collector
- HVAC Equipment
- Water Purification
- Plastic Laminating
- Vending Machines
- Welding Equipment
- Weather Monitoring
- Industrial Process Control
- Oceanography Monitoring
- Fruit Transportation Process Control

(775) 674-5100 • (800) 257-3526 • FAX (775) 674-5111 • E-mail: sales@selcoproducts.com

www.selcoproducts.com

Custom Thermistor Probes

CP Series



FEATURES

- RoHS Compliant
- Virtually unlimited options
- Customer specification or made from stock materials
- Available in Interchangeable or Point Matched 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 the standard components listed on the following pages or from a multitude of other materials.

SPECIFICATIONS

Temperature rating/ recommended operating ranges

CP Series probes may be intermittently cycled at temperatures from -50°C to 150°C. Optimum stability is achieved when they are stored at temperature less than 50°C and operated continuously at temperatures less than 100°C.

Note: CP Series probes using the DT Series glass thermistor may be intermittently cycled from -50°C to 250°C. Optimum stability is achieved when they are stored at less than 50°C and operated continuously at temperatures less than 220°C.

For CP Series probes using interchangeable thermistor elements, optimum stability is achieved when they are operated at temperatures within the specified temperature range.

R/T curves


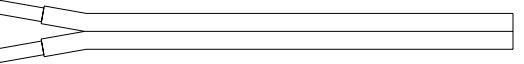

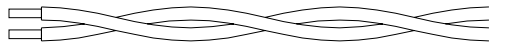
CP Series thermistors probes are available in all R/T curve materials. Detailed curve material information on pages 26-27.

Tolerances

±0.10°C, ±0.20°C, ±0.25°C, ±0.50°C, ±1.00°C, ±1%, ±2%, ±5%, ±10%

Note: Selco can provide options such as corrosion resistant housings, high pressure (PSI) housings, custom plastic molded or over-molded thermistor sub assemblies, and moisture resistant thermistor probe assemblies. Contact Selco applications engineering for information.

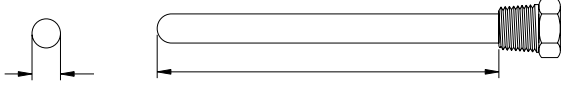
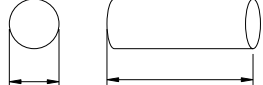

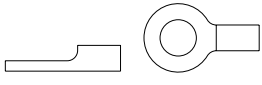
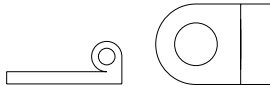
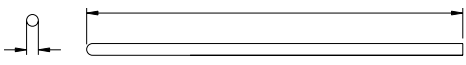
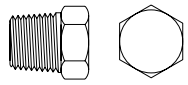
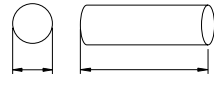
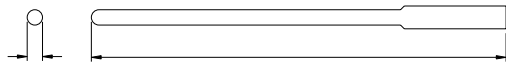
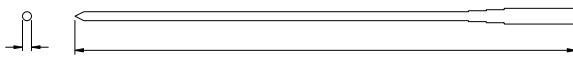
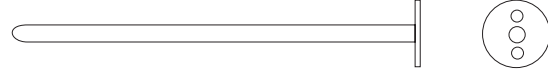
The following are a few examples of the unlimited choices for the combination of wire and probe housings

Wire Styles	Configuration	Gauge	Insulation
	Single Conductor	18-32	PVC, XLPE Teflon
	Zipcord	22-30	PVC
	Jacketed	22-26	PVC, Teflon
	Twisted	22-24	PVC, Etched Teflon

Custom Thermistor Probes

CP Series

The following are a few examples of the unlimited choices for the combination of wire and probe housings

Housings	Type	Material
	Threaded NPT fitting round, close-end tube	Brass 316 Stainless Steel
	Flat closed-ended	PVC, Stainless Steel, Brass, Overmold
	Rounded, closed-end cup	Delrin, Stainless Steel, Brass, Overmold
	Ring lug terminal bolt	Steel, Copper
	Ring lug terminal bolt	Steel, Copper
	Probe	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic
	Threaded NPT plug	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic, Overmold
	Open-end tube	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic
	Expanded Probe	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic
	Tapered-end Probe	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic
	Flange Mount Probe	304 Stainless Steel, 316 Stainless Steel, Brass, Aluminum, Plastic

(775) 674-5100 • (800) 257-3526 • FAX (775) 674-5111 • E-mail: sales@selcoproducts.com

www.selcoproducts.com

Custom Thermistor Probes

CP Series - Ordering Map

ORDERING MAP

CP - - - - - X X X X

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

Resistance in Ohms at 25°C
 0300 = 300 Ohms
 001K = 1K Ohms
 005K = 5K Ohms
 006K = 6K Ohms
 010K = 10K Ohms
 100K = 100K Ohms
 2252 = 2,252 Ohms
 1MEG = 1 Million Ohms

IN Type Only Tolerance at 25°C
 A = ±1.0°C C = ±0.2°C
 B = ±0.5°C D = ±0.1°C
 X = new letter assigned on special

PM Type Only Tolerance at 25°C
 1 = ±1% 5 = ±5%
 2 = ±2% 0 = ±10%
 3 = ±3% X = letter or digit assigned for specials

IN Type Only Temperature Ranges
 1 = 20°C to 45°C 6 = -40°C to 40°C
 2 = -20°C to 50°C 7 = +50°C to 125°C
 3 = 0°C to 70°C 8 = 0°C to 50°C
 4 = 0°C to 100°C 9 = -20°C to 125°C
 5 = +20°C to 90°C X = new digit assigned for specials

PM Type Only Temperature Ranges
 A = -20°C D = 37°C
 B = 0°C E = 70°C
 C = 25°C F = 100°C
 X = digit to be assigned for specials

XXXX = System file number assigned

TO ORDER SPECIFY ALL ITEMS BELOW

- Lead length
- Wire gauge size
- Solid or stranded wire
- Probe type description
- Connectors if required (Molex, Amp or other)
- Blunt or stripped end and length of stripped wire
- Insulation material (Isomid, Kynar, Nylon, PVC, Teflon, etc.)

(775) 674-5100 • (800) 257-3526 • FAX (775) 674-5111 • E-mail: sales@selcoproducts.com

www.selcoproducts.com