

APPLICATIONS



HVAC/R



Home Appliance



Food Service



Clean Energy



Medical Devices



Industrial



NTC / PTC

Temperature Sensor Probes

www.finecables.com



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NTC / PTC

Temperature Sensor Probes

Finecables offers a broad range of thermistors, RTDs, probes and assemblies for demanding temperature sensing applications worldwide. Recognized for their accuracy and long-term reliability, Finecables thermistors and RTDs are the sensor of choice for diverse markets such as Industrial Controls, Medical Electronics, HVAC-R, Aerospace, White Goods and Food Handling.

Capabilities

- Custom Probe Assemblies
- High Precision Thermistors
- Custom R-T Curves
- R-T Curve Matching
- Moisture Resistant Sensors
- Prototyping
- Extensive Quality Testing

Key Considerations

- Operating Temperature
- Operating Environment
- Base Resistance Value
- Tolerance/Accuracy
- Interchangeability
- Thermal Response Time
- R-T Characteristics
- Beta

Thermistor Probes and Assemblies

Finecables probe assemblies are valuable for sensing temperature in a variety of industries. Standard and customized probe assemblies offer very precise and extremely reliable thermal monitoring in the most demanding applications.

NTC and PTC Probes

A temperature sensor is generally a small diameter cylinder (between 0.5 and 8 mm), varying in length (between 50 mm and several meters), rigid or deformable and immersed in the media to be measured: solid, liquid or gas. The choice depends on the following criteria: temperature range, precision, response time, media to be measured, overall dimensions, pressure, corrosion, attachment and connection.

The NTC technology is used predominantly for domestic applications based on the ambient temperature (-40°C to 150°C), is suited to industrial applications between -40°C and 300°C.

The PTC technology is suited to industrial applications between -50°C and 500°C.



Thermistor Probes Supply

Finecables adopts worldclass thermistor to ensure the highly accurate precision as well as the long term stability.

Temperature Sensor RTDs

Finecables RTDs exhibit a nearly linear temperature-resistance curve as well as high accuracy over a very wide temperature range. Their unique characteristics result in a device especially suitable for use in extreme environmental conditions.

The Strength of Finecables Temperature Sensor probe

Customized assembly solution and various encapsulation design.

Robust stainless steel housing that provides an IP67 environmental protection rating.

Remote or direct mountable; compatible with 4-wire probes .

Housing design permits sensors to be mounted directly next to each other or in restrictive places.

4-pin M12 connection promotes easy integration in existing applications.

NTC Thermistors		
	Probe Assembly / Cylinder Stainless steel tubing	TS01(FCS01-102-3435)-XXXXXX
	Probe Assembly /Epoxy	TS02(FCS01-102-3435)-XXXXXX
	Probe Assembly /Ring Lug	TS03(FCS01-102-3435)-XXXXXX
	Probe Assembly /Molding	TS04(FCS01-102-3435)-XXXXXX
	Probe Assembly / plastic Tubing	TS05(FCS01-102-3435)-XXXXXX
	Probe Assembly /Square brass tubing	TS06(FCS01-102-3435)-XXXXXX
	Probe Assembly /Cylinder Stainless steel tubing & Ring pressure	TS07(FCS01-102-3435)-XXXXXX
	Probe Assembly /Cylinder Stainless steel tubing with M series connector	TS08(FCS01-102-3435)-XXXXXX
	Probe Assembly /molding of M12 connector	TS09(FCS01-102-3435)-XXXXXX
	Probe Assembly /Threaded metal tubing & hex	TS10(FCS01-102-3435)-XXXXXX
	Probe Assembly /Threaded metal tubing & hex	TS11(FCS01-102-3435)-XXXXXX
	Probe Assembly / threaded metal tubing & hex	TS12(FCS01-102-3435)-XXXXXX
	Probe Assembly / threaded metal tubing & hex	TS13(FCS01-102-3435)-XXXXXX
	Probe Assembly /T-type brass tubing	TS14(FCS01-102-3435)-XXXXXX
PTC Thermistors		
	Platinum Surface Temperature Sensor according to DIN EN 60751	TS15(FS32208500)-XXXXXX
	Platinum Temperature Sensor with stainless-steel housing according to DIN EN 60751	TS16(FS32208500)-XXXXXX
	Thread-mountable Platinum Temperature Sensor according to DIN EN 60751	TS17(FS32208500)-XXXXXX
	Platinum Temperature Sensor with jacketed cable according to DIN EN 60751	TS18(FS32208500)-XXXXXX
	Platinum Temperature Sensor for oven applications according to DIN EN 60751	TS19(FS32208500)-XXXXXX
	Platinum Temperature Sensor with ceramic housing according to DIN EN 60751	TS20(FS32208500)-XXXXXX