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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Temperature Probes

Probe Tips

Penetration / Immersion Type "F"

- 20 Pointed penetration
- 21 Tapered penetration
- 22 Chisel penetration
- 24 Rounded Immersion
- 26 Corkscrew penetration
- 28 Alligator Immersion

Surface/Contact Type "C"

- 30 Flat disk (Thermistor)
- 32 Ribbon
- 34 Between pack



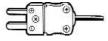
36 Heavy duty spring

Air/Gas

- 40 Air (Thermistor)
- 42 Beaded thermocouple
- 44 Hooded
- 46 Caged
- 48 Caged with rack clip



Sub-Mini Connector



Lumberg Connector



Bipolar Connectors

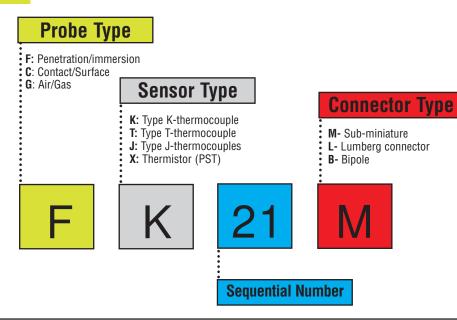


Temperature Probe Catalog V101





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What is the difference between thermocouple and thermistor probes?

Thermocouple probes utilize the reaction between two dissimilar metals to produce a voltage that changes as temperature changes. A thermistor is a resistive with a change in temperature. In general, thermocouples offer a wider temperature range and quicker response time than thermistors. Thermistors are typically more accurate than thermocouples.

What are the differences between thermocouple types?

Each thermocouple uses different metals and there fore have different characteristics. Here are general guidelines:

<u>K-Type-</u> Wide temperature range used in many digital thermometers. Identified by a yellow connector.

<u>T-Type-</u> Narrower temperature range than J-type but more accurate than K and J types, used in digital thermometers. Identified by a blue connector.

<u>J-Type-</u> Narrower temperature reange the K-Type used in analog and digital thermometers. Identified by a black connector.

Can different thermocouple types be interchanged?

No. Since each thermocouple type uses different metals in it's construction they have different output characteristics. Using a J-type thermocouple in a K-type thermometer will cause measurements to be very inaccurate.

What are the differences between the connector types TPI offers?

<u>Sub-Mini</u>-This is an industry standard connector type allowing TPI probes to be used in any thermocouple thermometer using this type of connector. Sub-mini connectors are quick and easy to use, simply push in and out. A wide variety of economical probes are available with sub-mini connectors, enhancing versatility and affordability of the temperature tester.

<u>Lumberg</u>- This connector uses a screw collar to attach to the thermometer and is the most secure connection available. Lumberg connectors are designed for the rigors of food processing environments. Advantages include:

- Strong connection stainless steel collar holds and protects connection. Probe will not pull out of instrument with out unscrewing the collar.
- · Waterproof stainless steel will not rust and is ideal for wet, humid conditions
- Lumberg connectors are manufactured following ISO9000 quality control guidelines.

Bi-Polar- This connector is used in the TPI thermistor probe line.

Probe Tips

Penetration / Immersion Type "F"

- 20 Pointed penetration
- 21 Tapered penetration
- 22 Chisel penetration
- 24 Rounded Immersion
- 26 Corkscrew penetration





- 30 Flat disk (Thermistor)
- 32 Ribbon
- 34 Between pack



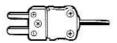
36 Heavy duty spring



- 40 Air (Thermistor)
- 42 Beaded thermocouple
- 44 Hooded
- 46 Caged
- 48 Caged with rack clip



Sub-Mini Connector



Lumberg Connector



Bipolar Connectors



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Contact/Surface Probe Applications (C)

- · Measure grill temperature to assure correct cooking temperatures.
- Check frozen food to assure proper storage temperatures.
- Measure temperatures between package to ensure proper quality control.
- · Check any surface for correct process control temperatures.
- Measure superheats on condensers.
- Measure griddle temperature.
- · Measure mackinery or mold temperature with a surface probe.
- Measure pipe temperatures in any industrial application.

Penetration / Immersion Probe Applications (F)

- Check internal food temperatures to assure quality control.
- Measure deep fat fryers with a high temp immersion probe.
- Measure liquids and semi-solid temperatures in food processing applications.
- Use a reduced tip probe for quicker response times where time is crucial to the process.

Air/Gas Probe Applications. (G)

- Measure air temperatures in duct work.
- Measure air temperature coming from diffusers while Trouble-shooting heating and air conditioning systems.
- Measure flame temperatures to trouble-shoot industrial heating applications.
- Calibrate thermostats using an ambient air probe.

Penetration/Immersion (F) Contact/ Immersion (C) Air/Gas (G) **Probe Tips** Use for penetation into solids and immersion Designed to measure surface temperatures Measure air or gas temperatures into semi-solids & liquids. Pointed: Can be used in air with slower response **Ribbon:** Fast response. Beaded: Flexible, can be used in some liquid Chisel: Can be used in air and on surfaces with Spring: Heavy duty sensing element for higher immersion applications slower response surface temperatures Hooded: Rigid, hood provides protection for the Tapered: Heavy duty, large diameter shaft for sensing element. Caged: Rigid, cage provides maximum protecbend resistant tion for the sensing element.

What type of probe should I use?

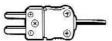
The type of probe you use depends upon your application. Here are some general guidelines for different types of probes.

<u>Penetration/Immersion (F)</u> General purpose probe used for penetration and immersion; can be used for air, but is much slower than an air probe. Need to select the tip type that best cuits the application.

<u>Contact/Surface (C)</u> Contact probes are used to measure surface temperatures. Penetration probes, with the exception of the chisel tip, can't measure surface temperatures. Need to select the tip type that best suits the application

Air/Gas (G) Air probes measure the air or gas temperatures. They respond significantly faster than penetration or contact probes in air. Need to select the tip type that best fits the application.

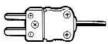
K-Type Thermocouple with Sub-Mini Connector Probes



Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
CK11M Contact surface probe, water proof	Contact tempera- tures on flat and uneven surfaces	-58° to 500°F -50° to 250°C	32	Stem Length: 4" (102mm) Diameter: 0.13" (3.2mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
CK12M Contact surface probe, right angle, waterproof	Contact tempera- tures on flat and uneven surfaces	-58° to 500°F -50° to 250°C	32	Stem Length: 4" (102mm) w/90° bend Diameter: 0.3" (7.5mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
CK13M Heavy-duty contact surface probe	Contact tempera- tures on flat and uneven high tem- perature surfaces	-58° to 1202°F -50° to 650°C	36	Stem Length: 4" (102mm) Diameter: 0.6" (14mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
CK14M Right angle heavy- duty contact surface probe	Contact tempera- tures on flat and uneven high tem- perature surfaces	-58° to 1202°F -50° to 650°C	36	Stem Length: 6" (152mm) w/90° bend Diameter: 0.6" (14mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
CK15M Heavy-duty contact surface probe for HK11M handle	Contact tempera- tures on flat and uneven high tem- perature surfaces	-40° to 950°F -40° to 510°C	36	Stem Length: 8" (203mm) Diameter: 0.6" (14mm) Lead Length: N/A IP Rating: N/A	N/A



K-Type Thermocouple with Sub-Mini Connector Probes

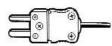


Application	Range°F°C		tip	Dimensions	Insulation Material
Contact tempera- tures on flat and uneven high tem- perature surfaces	-40° to 950°F -40° to 510°C		26	Diameter: 0.6" (14mm)	Polyurethane
Contact tempera- tures on flat and uneven surfaces	-40° to 500°F -50° to 250°C		32	Stem Length: 4" (102mm) w/45° bend Diameter: 0.3" (7.5mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
Contact temper- atures on flat surfaces	-58° to 500°F -50° to 250°C		32	IP Rating: N/A	Polyurethane
Clamp probe for pipe tempera-tures	-58° to 212°F -50° to 100°C		NI/A		Polyurethane
Clamp probe for pipe tempera-tures	-58° to 212°F -50° to 100°C		N/A	Nominal jaw opening: 0.75" Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
Contact temper- atures on flat and uneven sur- faces	-58° to 500°F -50° to 250°C		32	Stem Length: 4.5" (114mm) w/45° bend Diameter: 0.5" (12.7mm) Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
Contact temper- atures on flat and uneven sur- faces	-58° to 500°F -50° to 260°C		32	Stem Length: 4.9" (125mm) w/90° bend Diameter: 0.5" (12.7mm) Lead Length: 39.4" (1M) IP Rating:	Polyurethane
General purpose penetration into semi-solids and liquids	-58° to 500°F -50° to 250°C	_	20	Stem Length: 4" (102mm) Diameter: 0.13" (3.2mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
Heavy duty penetra- tion into semi-solids and liquids tapered shaft resist bending	-58° to 500°F -50° to 250°C		21	Stem Length: 11.8" (300mm) Diameter: 0.25 / 0.10" (6.4 / 2.5mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
General purpose penetration into semi-solids and liquids	-40° to 1562°F -40° to 850°C	=	20	Stem Length: 8" (203mm) Diameter: 0.15" (3.75mm) Lead Length: N/A IP Rating: 67	N/A
			20	Stem Length: 8" (203mm) Diameter: 0.15" (3.75mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
Food temperature measurements and other light duty applications	-58° to 500°F -50° to 250°C		20	Stem Length: 3.75" (80mm) Diameter: 0.06 (1.6mm) Lead Length: 39.4" (1M) IP Rating: N/A	Teflon
General purpose light duty penetration applications requiring fast response	-58° to 500°F -50° to 250°C	7	21	Stem Length: 4." (101.6mm) Diameter: 0.13"/.06" (3.2/1.6mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
General purpose light duty penetration applications requiring fast response	-58° to 500°F -50° to 250°C	-	21	Stem Length: 4" (101.6mm) Diameter: 0.09/0.06" (3.2/2.5mm) Lead Length: 39.4" (1M) IP Rating: N/A	Teflon
General purpose air / liquid probe with clip	-40° to 950°F -40° to 510°C			Stem Length: N/A Diameter: N/A Lead Length: 177" (4.5M) IP Rating: 67	Teflon
General purpose penetration into semi-solids and liquids	-40° to 500°F -40° to 250°C	-	21	Stem Length: 24" (610mm) Diameter: 0.37"/0.15" (9.5mm/3.76mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
	Contact temperatures on flat and uneven high temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Contact temperatures on flat surfaces Clamp probe for pipe temperatures Clamp probe for pipe temperatures Clamp probe for pipe temperatures Contact temperatures Contact temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces General purpose penetration into semi-solids and liquids Heavy duty penetration into semi-solids and liquids General purpose penetration into semi-solids and liquids General purpose penetration into semi-solids and liquids General purpose light duty applications General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response General purpose light duty penetration applications requiring fast response	Contact temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Contact temperatures on flat surfaces Clamp probe for pipe temperatures Clamp probe for pipe temperatures on flat and uneven surfaces Clamp probe for pipe temperatures Contact temperatures on flat and uneven surfaces -58° to 500°F -50° to 250°C -40° to 1562°F -40° to 850°C Contact temperatures on flat and uneven surfaces -58° to 500°F -40° to 1562°F -50° to 250°C -50° to 250°C	Contact temperatures on flat and uneven high temperatures on flat and uneven high temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces Clamp probe for pipe temperatures on flat and uneven surfaces Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat and uneven surfaces -50° to 250°C Contact temperatures on flat	Contact temperatures on flat and uneven high temperatures on traces on the state of	Probe to Dimensions Contact temporatures on fist and uneven high tem Valor to 550°F Valor to 50°F Valor to 50°F

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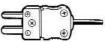
K-Type Thermocouple with Sub-Mini Connector Probes



Model #	ı			Probe		2 1 25 0 250	Insulation
Description	Application	Range°F°C		tip		Dimensions	Material
FK25M Flat sensor pack probe	Between pack temperatures	-40° to 400°F -40° to 204°C		34	Stem Length: Diameter: Lead Length: IP Rating:	N/A 39.4" (1.2M) 67	Polyurethane
FK26M Petes plug probe	Petes plug temperatures	-40° to 400°F -40° to 204°C		24	Stem Length: Diameter: Lead Length: IP Rating:	0.12" (3mm) 39.4" (1M) 67	Polyurethane
FK27M Waterproof long stem heavy duty penetration probe	General purpose penetration into semi-solids and liquids	-58° to 500°F -50° to 250°C	-	21	Stem Length: Diameter: Lead Length: IP Rating:	11.8" (300mm) 0.25"/0.10" (6.4mm/2.5mm) 39.4" (1M) 67	Polyurethane
FK28M Heavy duty penetration probe	Heavy duty penetra- tion into semi-solids and liquids tapered shaft resist bending	-58° to 500°F -50° to 250°C		22	Stem Length: Diameter: Lead Length: IP Rating:	6.3" (160mm) 0.13" (3.2mm) 39.4" (1M) N/A	Polyurethane
FK29M Long stem pointed tip penetration probe	General purpose penetration into semi-solids and liquids	-58° to 500°F -50° to 250°C		22	Diameter:	6.3" (160mm) 0.13" (3.2mm) 39.4" (1M) N/A	Polyurethane
FK30M Long stem heavy duty T-handle pene- tration probe	Heavy duty penetra- tion into semi-solids and liquids tapered shaft resist bending	-58° to 500°F -50° to 250°C		22	Stem Length: Diameter: Lead Length: IP Rating:	24" (609.60mm) 0.38" (9.5mm) 39.4" (1M) 67	Polyurethane
FK31M T-handle corkscrew insertion probe	General purpose penetration into semi-solids	-58° to 500°F -50° to 250°C	Must be used with EXT31M extension (included)	26	Stem Length: Diameter: Lead Length: IP Rating:	4.5" (114mm) 0.20" (5mm) 39.4" (1M) 67	Polyurethane
FK32M Long stem heavy duty T-handle pene- tration probe	Heavy duty penetra- tion into semi-solids and liquids tapered shaft resist bending	-58° to 500°F -50° to 250°C	-	24	Stem Length: Diameter: Lead Length: IP Rating:	18" (457mm) 0.37"/0.15" (9.5mm/3.76mm) 39.4" (1M) 67	Polyurethane
GK11M General purpose beaded tip probe	Exposed junction for fast response in non-food liquid, air and surface applications	-40° to 950°F -40° to 510°C		42	Stem Length: Diameter: Lead Length: IP Rating:	N/A 28 gauge 48" (1.2M) N/A	Fiberglass
GK12M General purpose beaded tip probe with rack clip	Exposed junc- tion for fast response in air applications.	-40° to 950°F -40° to 510°C		42	Stem Length: Diameter: Lead Length: IP Rating:	N/A 20 gauge 48" (1.2M) N/A	Fiberglass
GK13M General purpose beaded tip probe	Exposed junction for fast response in food and non-food liquid, air and sur- face applications	-40° to 400°F -40° to 204°C		42	Stem Length: Diameter: Lead Length: IP Rating:	24 gauge	Teflon
GK14M Rigid stem hooded exposed tip probe	Exposed junc- tion for fast response in air applications.	-58° to 910°F -40° to 510°C		44	Stem Length: Diameter: Lead Length: IP Rating:	3.74" (95mm) 0.13" (3.75mm) 39.4" (1M) N/A	Polyurethane
GK16M General purpose caged air probe for use with HK11M handle	Caged exposed junction for fast response in air	-40° to 500°F -40° to 260°C	<u> </u>	46	Stem Length: Diameter: Lead Length: IP Rating:	8" (203mm) 0.26" (6.5mm) 39.4" (1M) N/A	N/A
GK17M General purpose caged air probe	Caged exposed junction for fast response in air	-40° to 500°F -40° to 260°C		46	Stem Length: Diameter: Lead Length: IP Rating:	8" (203mm) 0.26" (6.5mm) 39.4" (1M) N/A	Polyurethane
GK18M General purpose caged air probe with rack clip and armored cable	Caged exposed junction for fast response in air	-40° to 586°F -40° to 308°C		48	Stem Length: Diameter: Lead Length: IP Rating:	N/A N/A 39.4" (1M) N/A	Braided stainless stee
GK19M General purpose beaded tip probe with armored cable	Exposed junction for fast response in non-food liquid, air and surface appli- cations	-40° to 950°F -40° to 510°C		42	Stem Length: Diameter: Lead Length: IP Rating:	N/A 28 gauge 48" (1.2M) N/A	Braided stainless stee

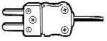


K-Type Thermocouple with Sub-Mini Connector Probes



Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
GK20M Flue temperature probe	Exposed junction with cone stop, fast response in flue temperature applications	-40° to 932°F -40° to 260°C	42	Stem Length: 4.33" (110mm) Diameter: 0.24" (6mm) Lead Length: 16' (4.9M) IP Rating: N/A	Teflon
EXT 31M Male to Male Extension	Use with FK31M	N/A	N/A	Stem Length: NA Diameter: NA Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane
HK11M Handle for use with K-type interchange- able probe tips	Use with FK13M, CK15M, and GK16M	N/A	N/A	Stem Length: N/A Diameter: N/A Lead Length: 39.4" (1M) IP Rating: N/A	Polyurethane

J-Type Thermocouple with Sub-Mini Connector Probes **E**



Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
GJ11M Standard fiberglass insulation, 4 foot, bead- ed end (disposable)	Exposed junc- tion for fast response	-40° to 950°F -40° to 500°C		Stem Length: N/A Diameter: 24 Gauge Lead Length: 1.2 IP Rating: N/A	Fiberglass
GJ12M GJ11M with oven clip	Oven clip to shield sensor from direct radiated heat	-40° to 950°F -40° to 500°C		Stem Length: N/A Diameter: 24 Gauge Lead Length: 1.2 IP Rating: N/A	Fiberglass

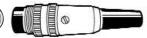
K-Type Thermocouple with Lumberg Connector Probes



Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
FK21L Contact surface probe with ribbon sensor. Water proof	Food Penetration	-58° to 500°F -50° to 250°C	21	Stem Length: 4" (101.6mm) Diameter: 0.13/.06" (3.2/1.6mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
FK22L Oven food probe	Testing food temperatures during cooking	-58° to 500°F -50° to 250°C	20	Stem Length: 4"(101.6mm) Diameter: 0.09/.06" (3.2/1.6mm) Lead Length: 47.2" (1.2M) IP Rating:	Teflon
FK23L Immersion / Penetration probe no handle or lead	Food Penetration	-58° to 500°F -50° to 250°C	21	Stem Length: 3.9"(100mm) Diameter: 0.15" (3.75mm) Lead Length: NA IP Rating: 67	NA
FK25L Flat sensor pack probe	Between pack	-40° to 400°F -40° to 204°C	34	Stem Length: NA Diameter: NA Lead Length: 47.2" (1.2M) IP Rating: 67	Teflon
FK26L Immersion / Penetration probe	Food Penetration	-58° to 500°F -50° to 250°C	20	Stem Length: 4"(101.6mm) Diameter: .09/.06" (2.4/1.6mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane

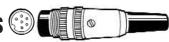
T-Type Thermocouple with Lumberg Connector Probes 💿 🚛 🕟





Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
CT11L Surface probe with ribbon sensor	Surface Temperatures Grills	-58° to 500°F -50° to 250°C	32	Stem Length: 4"(102mm) Diameter: 0.13" (3.2mm) Lead Length: 39.4" (1M) IP Rating: N/A	PVC
FT11L Chisel tip penetra- tion probe	General purpose penetation into semi-solids and liquids	-148° to 500°F	22	Stem Length: 4"(101.6mm) Diameter: 0.13/.15" (3.2mm/2.2mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane





Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
FT12L Needle probe	Weiner probe for food processing	-148° to 500°F -100° to 250°C	22	Stem Length: 4"(101.6mm) Diameter: 0.13"(3.2mm) Lead Length: 39.4" (1.0M) IP Rating: 67	PVC
FT15L Needle probe	Weiner probe for food pro- cessing	-148° to 500°F -100° to 250°C	22	Stem Length: 3.15"(80mm) Diameter: 0.06"(1.6mm) Lead Length: 39.4" (1.2M) IP Rating: N/A	Teflon
FT21L Tapered end for food penetration Waterproof	Food penetration	-148° to 500°F -100° to 250°C	21	Stem Length: 3.75"(95.3mm) Diameter: 3.2/1.6mm Lead Length: 39.4" (1.0M) IP Rating: 67	PVC
FT22L Oven food probe	Testing food temperature during cooking	-40° to 500°F -50° to 250°C	22	Stem Length: 3.93"(100mm) Diameter: 0.13" (3.2mm) Lead Length: 98.4" (2.5M) IP Rating: N/A	Teflon
FT23L Oven food probe	Testing food temperature during cooking	-40° to 950°F -40° to 510°C	28	Stem Length: NA Diameter: NA Lead Length: 177.2" (4.5M) IP Rating: N/A	Teflon
FT24L Heavy duty T-handle long stem penetra- tion probe	General purpose penetration into semi-solids and liquids	-40° to 500°F -40° to 250°C	21	Stem Length: 24" (610mm) Diameter: 0.37"/0.15" (9.5mm/3.76mm) Lead Length: 39.4" (1M) IP Rating: 67	Polyurethane
GT13L Beaded probe with FDA approved insulation	General Purpose. Air	-148° to 500°F -100° to 250°C	42	Stem Length: NA Diameter: NA Lead Length: 47.2" (1.2M) IP Rating: 67	Teflon
GT19L Oven clamp probe	Special hangingClip for ovens. Air.	-40° to 500°F -40° to 510°C	48	Stem Length: NA Diameter: NA Lead Length: 39.4" (1M) IP Rating: 67	SS

Thermistor Probe with Lumberg Connectors



Model # Description	Application	Range°F°C	Probe tip	Dimensions	Insulation Material
FX11L Liquid immersion probe	General Purpose, Liquid	-40° to 300°F -40° to 150°C	24	Stem Length: 4"(102mm) Diameter: 0.13" (3.2mm) Lead Length: 39.4" (1M) IP Rating: 67	PVC

Thermistor Probe with Bipolar Connectors



Model # Description	Application	Range°F°C		Probe tip	Dimensions	Insulation Material
CX13B Surface flat disk probe	Surface	-40° to 300°F -40° to 150°C	2000	30	Stem Length: 3.15"(80mm) Diameter: 0.3" (7.5mm) Lead Length: 15.7" (0.4M) IP Rating: N/A	PVC
FX12B Liquid immersion probe	General Purpose	-40° to 300°F -40° to 150°C		24	Stem Length: 3.15"(80mm) Diameter: 0.13" (3.2mm) Lead Length: 15.7" (0.4M) IP Rating: N/A	PVC
FX13B Liquid immersion probe	General Purpose	-40° to 300°F -40° to 150°C		24	Stem Length: 8"(203mm) Diameter: 0.13" (3.2mm) Lead Length: 15.7" (0.4M) IP Rating: 67	PVC
GX15B Shielded air probe	Air	-40° to 300°F -40° to 150°C	of the same of the	44	Stem Length: 3.15"(80mm) Diameter: 0.13" (3.2mm) Lead Length: 15.7" (0.4M) IP Rating: N/A	PVC
EX11B extension lead	Thermistor probes	N/A		NA	Stem Length: N/A Diameter: N/A Lead Length: 36" (0.9M) IP Rating: N/A	PVC



The Value Leader

- Digital Multimeters
- Digital Clamp-Ons
- Temperature Products
- Combustion Analyzers
- Carbon Monoxide Analyzers
- Combustible Gas Detectors
- Digital Manometers
- Indoor Air Quality
- Insulation Resistance Testers (IRT)
- Handheld Oscilliscopes
- Refrigeration Leak Detectors
- Coax / BNC Cables and Adapters
- Oscilliscope Probes / SMTP Clips
- Specialty Testers

Probe selection

TPI has three basic types of temperature probes: Penetration/Immersion (F), Contact/Surface (C), and Air/Gas (G).

- Penetration/Immersion (F) probes are used for liquids, semi-solids, and solids.
- Contact/Surface (C) probes are designed for surface temperatures.
- Air/Gas (G) probes are designed to measure air or gas temperatures.

Select your type of application and probe tip first. Then match the connector type of the probe to your instrument.

OEM/specialty temperature probes

Whatever your OEM temperature probe needs are, let TPI help you. Just let us have the following information, along with your company and contact information.

- 1. Application, environment, and operating temperature
- 2. New or existing product
- 3. Annual usage and release quantities
- 4. Connector type or bare wire details
- 5. Length of lead wire and straight or coiled wire
- 6. Probe tip type and dimensions
- 7. Any other special requirements, materials, etc.

Cost of ownership temperature probe

Ask us about a customized cost of ownership temperature probe program.

Three Year Limited Warranty on TPI Products

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