HI 766

HI 766 K-Type Thermocouple Probes

HI 766Px Series, Probes with Detachable Handle

The HI 766Px series are K-type thermocouple temperature probes to be used with thermocouple thermometers. These probes are ideal for measuring samples at very high temperatures, such as in industrial applications.

All probes are made with stainless steel for long life and easy cleaning. The HI 766Px series includes a wide range of probes for measurement of liquids, air, gas, penetration in semisolids, as well as curved, planed or hard to reach surfaces. In addition, models are available with interchangeable or fixed handles for maximum versatility.

HI 766HD, Probe Interchangeable Handle

A rugged, PVC handle with a 1 meter (3.3') cable. It is provided with a female connector, which allows the connection of any HI 766Px probe.

HI 766EX, Extension Cable

Coiled cable which extends by 1 m (3.3') the probe cable, with two connectors at the two ends (1 male and 1 female).

HI 766PA, Roller Surface Probe

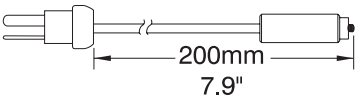
This probe is designed to measure the temperature of convex surfaces.

SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE LENGTH	PROBE
HI 766PA	convex surfaces, moving rollers	320°C (600°F)	7 seconds	280 mm (11')	stainless steel

HI 766PB, Surface Probe

Temperature probe for measurements on surfaces.



SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766PB	hot solids, furnaces, molds	650°C (1200°F)	8 seconds	L 200 mm x dia 16 mm (7.9 x 0.6")	stainless steel

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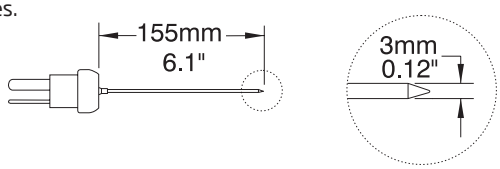
HI 766PC, Penetration Probe

K-type thermocouple probe with sharp tip for penetration of semi-solid samples.

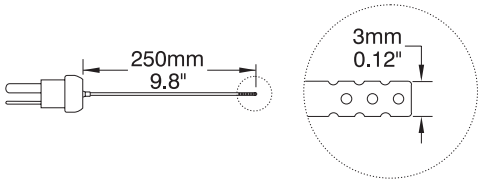


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766PC	semi-solids, meat, rubber	900°C (1650°F)	15 seconds	L 155 mm x dia 3 mm (6.1 x 0.12")	stainless steel

HI 766PD, Probe for Air and Gas

K-type thermocouple probe for measuring the temperature of air and gases.

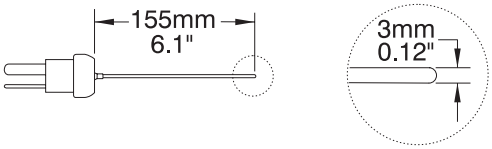


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766PD	air, gases	300°C (570°F)	20 seconds	L 250 mm x dia 3 mm (9.8 x 0.12")	stainless steel

HI 766PE1, General Purpose Probe

General purpose, penetration probe.

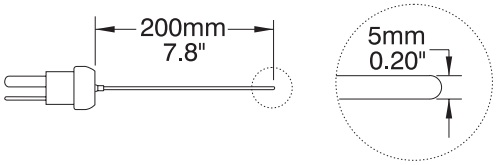


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766PE1	liquids, air, gases	900°C (1650°F)	6 seconds	L 155 mm x dia 3 mm (6.1 x 0.12")	stainless steel

HI 766PE2, General Purpose Probe

General purpose, penetration probe.



SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766PE2	liquids, air, gases	900°C (1650°F)	6 seconds	L 200 mm x dia 5 mm (7.8 x 0.2")	stainless steel

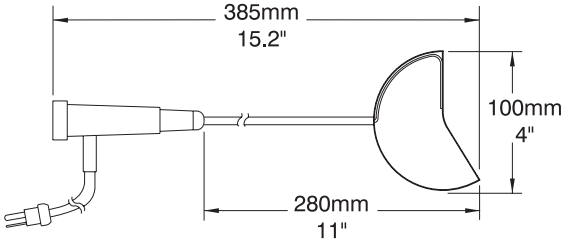
HI 766

HI 766 K-Type Thermocouple Probes with Handle

HI 766A, Roller Surface Probe

This probe is designed to measure the temperature of convex surfaces.

1 m (3.3') Cable
Mini Connector



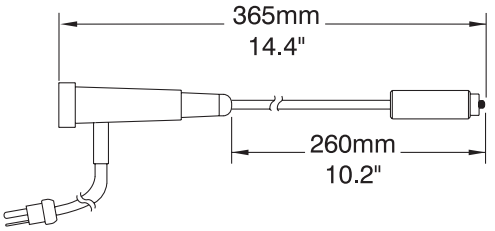
SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766A	convex surfaces, moving rollers	320°C (600°F)	7 seconds	280 mm (11') (probe length)	stainless steel

HI 766B, Surface Probe

Temperature probe for measurements on surfaces.

1 m (3.3') Cable
Mini Connector



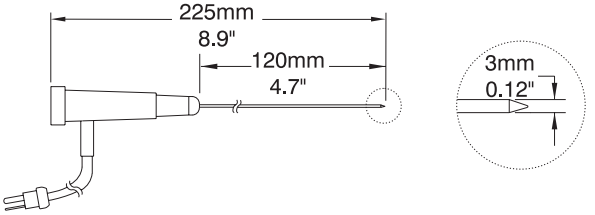
SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE
HI 766B	hot solids, furnaces, molds	650°C (1200°F)	8 seconds	L 200 mm x dia 16 mm (7.9 x 0.6")	stainless steel

HI 766C, Penetration Probe

K-type thermocouple probe with sharp tip for penetration of semi-solid samples.

1 m (3.3') Cable
Mini Connector



SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	CABLE COLOR
HI 766C	semi-solids, meat, rubber	900°C (1650°F)	15 seconds	L 155 mm x dia 3 mm (6.1 x 0.12")	stainless steel	green
HI 766CL	semi-solids, meat, rubber	900°C (1650°F)	15 seconds	L 310 mm x dia 5 mm (12.2 x 0.19")	stainless steel	green
HI 766CA	semi-solids, meat, rubber	900°C (1650°F)	15 seconds	L 155 mm x dia 3 mm (6.1 x 0.12")	stainless steel	green, no connector

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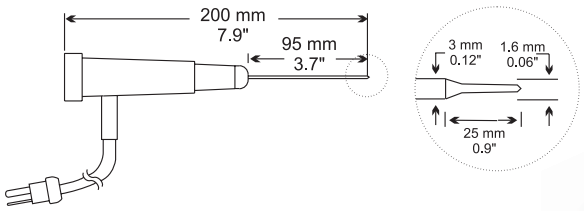
HI 766C1, Ultra-Fast Penetration Probe

Penetration probe with fast response time



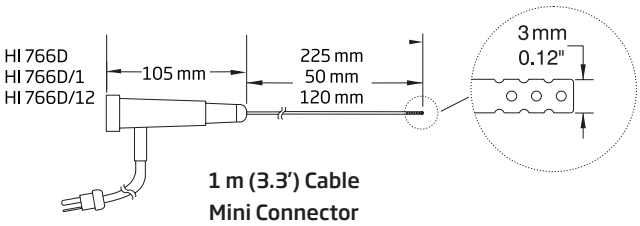
1 m (3.3') Cable
Mini Connector

HI 766CAR

SPECIFICATIONS						
CODE	**APPLICATION**	**MAX TEMPERATURE**	**RESPONSE TIME** (90% OF FINAL VALUE)	**PROBE DIMENSIONS**	**PROBE**	**CABLE COLOR**
HI 766C1	semi-solids, food	300°C (570°F)	4 seconds	L 95 mm x dia 1.6 mm (3.7 x 0.06")	stainless steel	green
HI 766C1/G	semi-solids, food	300°C (570°F)	4 seconds	L 95 mm x dia 1.6 mm (3.7 x 0.06")	stainless steel	yellow
HI 766CAR	rubber, car tires	300°C (570°F)	4 seconds	L 10 mm x dia 1.6 mm (.39 x 0.06")	stainless steel	black

HI 766D and HI 766D/12, Probes for Air and Gas

K-type thermocouple probe for measuring the temperature of air and gases.



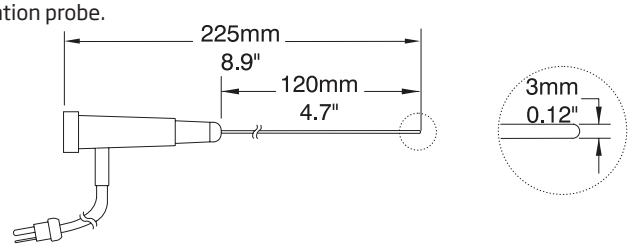
1 m (3.3') Cable
Mini Connector

SPECIFICATIONS						
CODE	**APPLICATION**	**MAX TEMPERATURE**	**RESPONSE TIME** (90% OF FINAL VALUE)	**PROBE DIMENSIONS**	**PROBE**	**CABLE COLOR**
HI 766D	air, gases	300°C (570°F)	20 seconds	L 245 mm x dia 3 mm (9.6 x 0.12")	stainless steel	green
HI 766D/1	air, gases	300°C (570°F)	20 seconds	L 50 mm x dia 3 mm (9.6 x 0.12")	stainless steel	green
HI 766D/12	air, gases	300°C (570°F)	20 seconds	L 120 mm x dia 3 mm (4.7 x 0.12")	stainless steel	green

HI 766E1, General Purpose Probe

General purpose, penetration probe.

1 m (3.3') Cable
Mini Connector



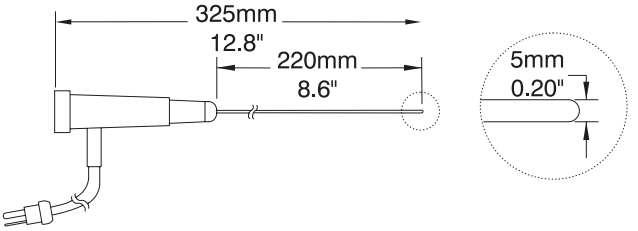
SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	CABLE LENGTH
HI 766E1	liquids, air, gases	900°C (1650°F)	6 seconds	L 120 mm x dia 3 mm (4.7 x 0.12")	stainless steel	1 m (3.3')

HI 766E2, General Purpose Probe

General purpose, penetration probe

1 m (3.3') Cable
Mini Connector

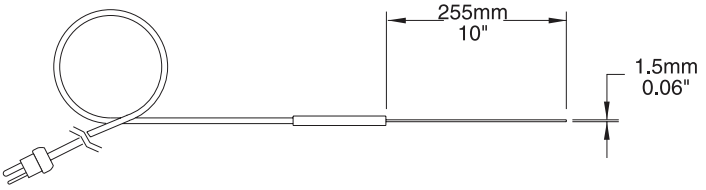


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	CABLE LENGTH
HI 766E2	liquids, air, gases	900°C (1650°F)	6 seconds	L 220 mm x dia 5 mm (8.5 x 0.2")	stainless steel	1 m (3.3')
HI 766E2/20	liquids, air, gases	900°C (1650°F)	6 seconds	L 220 mm x dia 5 mm (8.5 x 0.2")	stainless steel	20 m (66')
HI 766E2A	liquids, air, gases	900°C (1650°F)	6 seconds	L 220 mm x dia 5 mm (8.5 x 0.2")	stainless steel	1 m (3.3'), no connector

HI 766F, High Temperature Probe

Probe with flexible sheath without handle, designed to measure high temperatures.



SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	CABLE LENGTH
HI 766F	high temperature	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	AISI 316 stainless steel	1 m (3.3')
HI 766F/3	high temperature	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	AISI 316 stainless steel	3 m (9.9')

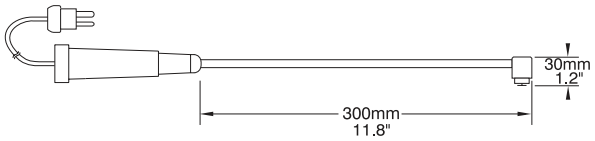
HI 766 K-Type Thermocouple Probes for Specific Applications

The following probes are designed to ensure optimal contact with surfaces of different shapes and dimensions.

When using these probes, the handle temperature must never exceed 150°C (302°F), to avoid possible damage to the probe.

HI 766B1, 90° Angle Surface Probe

Probe for measuring the temperature of 90° angle surfaces.

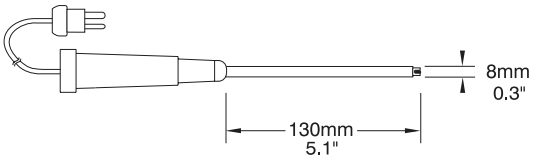


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	SENSOR
HI 766B1	hard to reach surfaces	450°C (840°F)	8 seconds	L 300 mm x dia 30 mm (11.8 x 1.2")	stainless steel	spring-loaded

HI 766B2, Surface Probe

Probe for measuring the temperature of round surfaces.

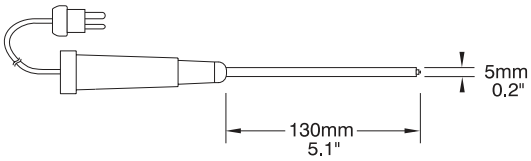


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	SENSOR
HI 766B2	solids, furnaces, molds	900°C (1650°F)	3 seconds	L 130 mm x dia 8 mm (5.1 x 0.3")	stainless steel	spring-loaded

HI 766B3, Small Surface Probe

Probe for measuring the temperature of small surfaces.

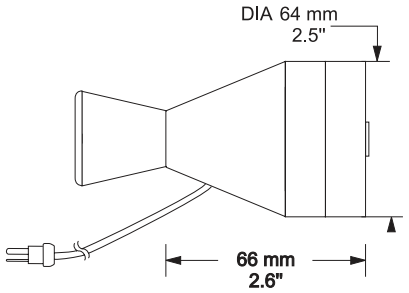


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	PROBE	SENSOR
HI 766B3	small surfaces	200°C (390°F)	6 seconds	L 130 mm x dia 5 mm (5.1 x 0.2")	stainless steel, insulated tube	spring-loaded

HI 766B4, Grill Surface Probe with Jacketed Cable

Probe for measuring the temperature of hot grill surfaces.

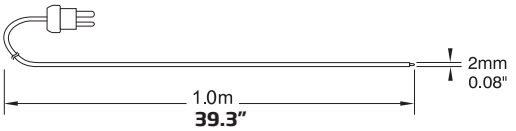


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (63.2% F.S.)	PROBE DIMENSIONS	SENSOR	WIRE LENGTH
HI 766B4	hot grills for food cooking	250°C (482°F)	6 seconds	L 66 mm x dia 64 mm (2.6 x 2.5")	PTFE contact surface with replaceable stainless steel sensor (HI 7664B4S)	70 cm (27.6") length, protected with stainless steel jacket

HI 766F1, Wire Temperature Probe

Wire probe, designed to access hard to reach places. Probe does not incorporate a handle.

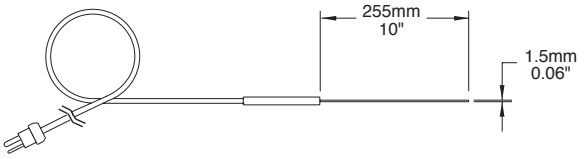


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (63.2% F.S.)	PROBE DIMENSIONS	SENSOR	WIRE LENGTH
HI 766F1	hard to reach areas	480°C (900°F)	1 second	dia 2 mm (0.08")	exposed wires	1 m (3.3')
HI 766F1/3	hard to reach areas	480°C (900°F)	1 second	dia 2 mm (0.08")	exposed wires	3 m (9.9')
HI 766F1/5	hard to reach areas	480°C (900°F)	1 second	dia 2 mm (0.08")	exposed wires	5 m (16.4')
HI 766F1/50	hard to reach areas	480°C (900°F)	1 second	dia 2 mm (0.08")	exposed wires	50 m (164')

HI 766Z, Wire Temperature Probe

Wire probe, designed to measure temperature inside ovens.

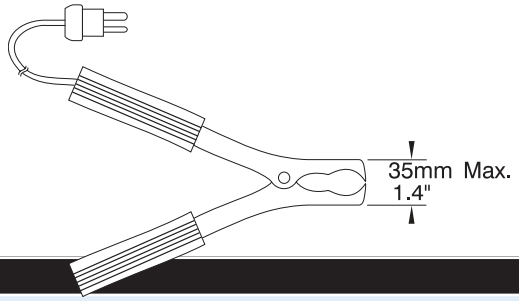


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	SENSOR	CABLE LENGTH
HI 766Z	ovens	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	1.7 m (5.6')
HI 766Z/3	ovens	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	3 m (9.9')
HI 766Z/5	ovens	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	5 m (16.4')
HI 766Z/7	ovens	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	7 m (22.9')

HI 766TV1, Pipe Clamp Probe

Probe for measuring the temperature of pipes and tubes.

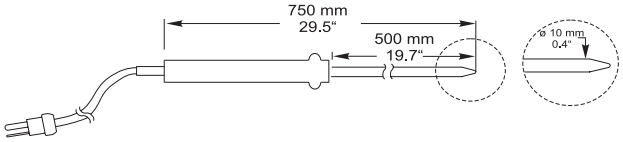


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	CLAMP OPENING DIAMETER	SENSOR
HI 766TV1	pipes, tubes	200°C (390°F)	8 seconds	max 35 mm (1.4")	housed inside the clamp

HI 766TR1, Penetration Probe

K-type thermocouple probe with sharp tip for penetration of semi-solid samples.

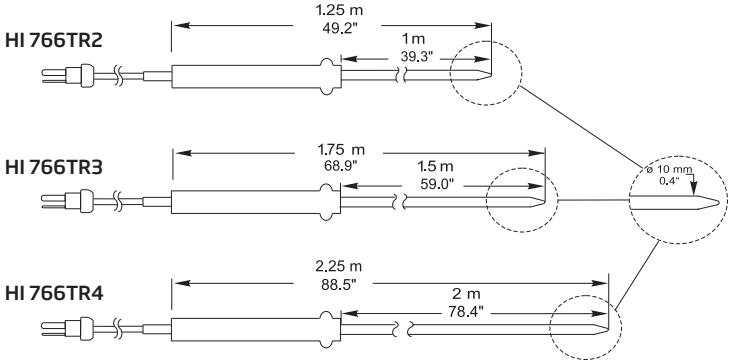


SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE DIMENSIONS	SENSOR
HI 766TR1	semi-solids, liquids	250°C (482°F)	10 seconds	L 500 mm x dia 10 mm (19.7 x 0.4")	stainless steel

HI 766TR2, HI 766TR3, HI 766TR4, Penetration Probes

K-type thermocouple probes with sharp tip for penetration of semi-solid samples.



SPECIFICATIONS

CODE	APPLICATION	MAX TEMPERATURE	RESPONSE TIME (90% OF FINAL VALUE)	PROBE LENGTH	SENSOR
HI 766TR2	semi-solids, liquids	250°C (482°F)	10 seconds	1 m (3.3')	stainless steel
HI 766TR3	semi-solids, liquids	250°C (482°F)	10 seconds	1.5 m (5')	stainless steel
HI 766TR4	semi-solids, liquids	250°C (482°F)	10 seconds	2 m (6.6')	stainless steel