Temperature

Product Spotlights

BEER line

HI148 Series

Waterproof Thermologgers

The HI148 series of thermologgers are ideal for monitoring temperature in applications such as food processing, transportation, museums, and horticulture.

HI935012

Brewing Thermometer

with 1 m stainless steel probe

Comparison Guides

	K-type	T-type	KJT - type	Range	CAL Button	CAL Check™	PC Compatibility	BEPS	HOLD Feature	Waterproof	Autoranging	Logging	Alarm	Interchangeable Probe	Multiple Channels	Backlit LCD	Foodcare	Page
Thermocouple Thermometers																		
HI935005	•			°C/°F				•	•	•				•				14.7
HI935002	•			°C/°F				•	•	•				•	•			14.8
HI93531	•			°C/°F				•	•	•				•				14.9
HI93531N	•		•	°C/°F				•	•	•				•		•		14.9
HI935003	•			°C/°F		•				•				•				14.10
HI935001	•			°C/°F		•				•				•			•	14.30
HI935004		•		°C/°F		•				•				•			•	14.31
HI935007	•			°C/°F		•				•							•	14.34
HI9350011	•			°C/°F		•				•							•	14.32
HI9350041	•			°C/°F		•				•							•	14.33
Thermistor Thermometers																		
HI93510				°C/°F				•	•	•				•				14.20
HI93510N				°C/°F	•			•	•	•				•		•		14.20
HI935012				°C/°F		•				•				•			•	14.26
HI93501				°C/°F		•				•				•			•	14.28
Temperature Dataloggers																		
HI148				°C/°F	•	•			•			•	•		•			14.42
HI144				°C/°F	•							•	•					14.44

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HI935005

K-Type Thermocouple Thermometers

- **°C/°F Readout**
  - Measurements can be displayed in either degrees Celsius or Fahrenheit. A simple press of the °C/°F button will switch between the scales.

- **Interchangeable Probes**
  - A wide range of K-type thermocouple probes are available to meet the specific needs of users. Any of the HI766 series of probes can be interchanged with the HI935005 to measure temperature of surfaces, gases, air, liquid, semi-solid samples, and more.

- **High/Low Function**
  - The maximum and minimum temperature values are continuously monitored and displayed on the lower portion of the HI935005 LCD display during a measurement session. The CLR button clears the high and low values on the LCD display.

- **HOLD Function**
  - The HOLD button on the face of the meter freezes the display to allow the user time to record readings. Although the display is frozen, the meter continues to internally monitor the temperature and update the high and low measurement values.

- **Auto Shut-off**
  - Users can select to enable automatic shut off after 8 or 60 minutes of non-use or select to disable the shut-off feature.

- **Battery Error Prevention System (BEPS)**
  - The Battery Error Prevention System detects when the batteries become too weak to ensure reliable measurements.

- **Low Battery Indicator**
  - When the battery level is below 10%, a warning symbol will blink to indicate low battery condition.

The HI935005 is a K-type thermocouple thermometer that can be used with a wide variety of K-type probes. This thermometer offers two measurement ranges from -50.0 to 199.9°C and 200 to 1350°C which can also be displayed in °F (-58.0 to 399.9°F and 400 to 2462°F). With a ±0.2% full scale accuracy, the HI935005 waterproof thermometers are perfectly suited for temperature measurements in the laboratory or the field.

Specifications	HI935005
Range	-50.0 to 199.9°C and 200 to 1350°C; -58.0 to 399.9°F and 400 to 2462°F
Resolution	0.1°C (-50.0 to 199.9°C) and 1°C (outside); 0.1°F (-58.0 to 399.9°F) and 1°F (outside)
Accuracy	±0.2% FS (excluding probe error)
Probe	HI766 series K-type thermocouple (not included)*
Battery Type / Life	1.5V AA (3) / approximately 1600 hours of continuous use; auto-off selectable after 8 or 60 minutes of non-use (can be disabled)
Environment	-10 to 50°C (14 to 122°F); RH max 100%
Dimensions	150 x 80 x 36 mm (5.9 x 3.1 x 1.4")
Weight	235 g (8.3 oz.)

Ordering Information	HI935005 is supplied with batteries and instruction manual.	
Probes	**HI766C**	Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable
	HI766D	Air/gas, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
	HI766E1	General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
Accessories	**HI710007**	blue shockproof rubber boot
	HI710008	orange shockproof rubber boot

HI935002

Dual-channel, K-Type Thermocouple Thermometer

- Multiple input channels
  - Dual input channels
- HOLD
  - HOLD function
- BEPS
  - Alerts the user of low battery power that could adversely affect readings
- Battery indicator
  - Battery life indicator at startup
- Waterproof
  - Compact, heavy-duty and waterproof

HI935002 is a 2-channel, waterproof, K-type thermometer that offers accurate temperature measurements in a wide range, as well as 1600 hours of battery life.

These units display current temperature along with the minimum and maximum temperature for each channel achieved during the measuring session. The difference between each channel can be shown, or a relative value can be set on each channel and variances around that value can be monitored.

The HOLD button freezes the display to allow the user time to record readings.

The instruments are equipped with BEPS (Battery Error Prevention System), which alerts the user in the event that low battery power could adversely affect readings.

Specifications — HI935002

Specifications	HI935002
Range	-50.0 to 199.9°C and 200 to 1350°C; -58.0 to 399.9°F and 400 to 2462°F
Resolution	0.1°C (-50.0 to 199.9°C) and 1°C (outside); 0.1°F (-58.0 to 399.9°F) and 1°F (outside)
Accuracy	±0.2% f.s. (for 1 year, excluding probe error)
Probe	HI766 series K-type thermocouple (not included)*
Battery Type / Life	1.5V AA (3) / approx. 1600 hours of continuous use
Environment	-10 to 50°C (14 to 122°F); RH max 100%
Dimensions	150 x 80 x 36 mm (5.9 x 3.1 x 1.4")
Weight	235 g (8.3 oz.)

Ordering Information

HI935002 is supplied with batteries and instructions.

Probes		
	HI766C	Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable
	HI766D	Air/gas, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
	HI766E1	General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable

Accessories		
	HI710007	blue shockproof rubber boot
	HI710008	orange shockproof rubber boot

*K-type thermocouple probes should be ordered separately to meet your specific application.

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0.1° Resolution K-Type Thermocouple Thermometers

- HOLD
  - HOLD function
- BEPS
  - Alerts the user of low battery power that could adversely affect readings
- Battery indicator
  - Battery life indicator at startup
- Backlight
  - Backlit display (N and R versions)
- Waterproof
  - Compact, heavy-duty and waterproof
- Connectivity
  - PC and printer compatible (R version)

These waterproof thermometers feature 0.1° resolution in the -149.9 to 999.9°C (-24.9 to 999.9°F) range, making them ideal for precise temperature measurements. The instruments display the current temperature along with the minimum and maximum extremes achieved.

The HOLD button freezes the display to allow the user time to record readings. The °C/°F button switches between the Celsius and Fahrenheit temperature scale. The CLR button restarts the evaluation of high and low values.

The HI93531N features a user-activated backlight for low or no light conditions. The CAL button allows a simple one-point calibration in an ice bath at 0°C when probe interchange occurs.

The instruments are equipped with BEPS (Battery Error Prevention System), which alerts the user in the event that low battery power could adversely affect readings.

Specifications	HI93531	HI93531N
Range	-200.0 to 999.9°C; 1000 to 1371°C -328.0 to 999.9°F; 1000 to 2500°F	
Resolution	0.1°C (-149.9 to 999.9°C); 0.2°C (-200.0 to -150.0°C); 1°C (outside) 0.1°F (-24.9 to 999.9°F); 0.2°F (-249.9 to -25.0°F); 0.3°F (-328.0 to -250.0°F); 1°F (outside)	
Accuracy	±0.5°C (-100.0 to 999.9°C); ±1°C (outside); ±1°F (-148.0 to 999.9°F); ±1.5°F (outside) (for 1 year, excluding probe error)	
Probe	HI766 series K-type thermocouple (not included)*	
CAL Button	N/A	yes
Backlit LCD	N/A	yes
RS232	N/A	N/A
Battery Type / Life	1.5V AA (3) / approximately 500 hours of continuous use (with backlight off); auto-off after 60 minutes of non-use (can be disabled)	
Environment	-10 to 60°C (14 to 122°F); RH max 100%	
Dimensions	150 x 80 x 36 mm (5.9 x 3.1 x 1.4")	
Weight	235 g (8.3 oz.)	

Ordering Information	HI93531 and HI93531N are supplied with batteries and instructions.	
Probes*	HI766C	Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable
	HI766D	Air/gas, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
	HI766E1	General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
Accessories	HI710007	blue shockproof rubber boot
	HI710008	orange shockproof rubber boot

*K-type thermocouple probes should be ordered separately to meet your specific application.

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HI935003

K-Type Thermocouple Thermometer

- Compatible with K-type thermocouple probes
- CAL Check™ feature
- Remaining battery life indication/ low battery detection
- Auto-off
- IP65 Waterproof casing

HI935003 is designed for the measurement of industrial and domestic applications as well as farm and field temperatures.

This thermometer is compatible with K-type thermocouple probes to provide the greatest accuracy and offers a large range of temperature measurement; from -50 to 300°C (-58.0 to 572°F).

Features include waterproof casing (rated IP65), CAL Check, low battery detection, auto-off capability, and long battery life.

Our optional HI710027 blue shockproof rubber boot offers maximum impact protection.

| Specifications	HI935003
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
Meter Accuracy (@ 23.0°C ±5°C)	±0.4 °C (-50.0 to 300 °C) ±0.7 °F (-58.0 to 572 °F)
Response time for 90% of final value	20 seconds
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	Rated operating condition: -20 to 50 °C (-4 to 122 °F)
	limiting condition: -30 to 50°C (-22 to 122°F)
	storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	178 g (6.27 oz.)
Ordering Information	**HI935003** is supplied with 1.5V AAA batteries (3), quality certificate, and instructions.
Probes	**HI766C** — Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable
	HI766D — Air/gas, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable
	HI766E1 — General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable

The measurement range applies to the probe shaft.

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HI766 K-Type Thermocouple Probes

General Specifications
Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

HI766E1
General Purpose Probe

225 mm
8.9"

120 mm
4.7"
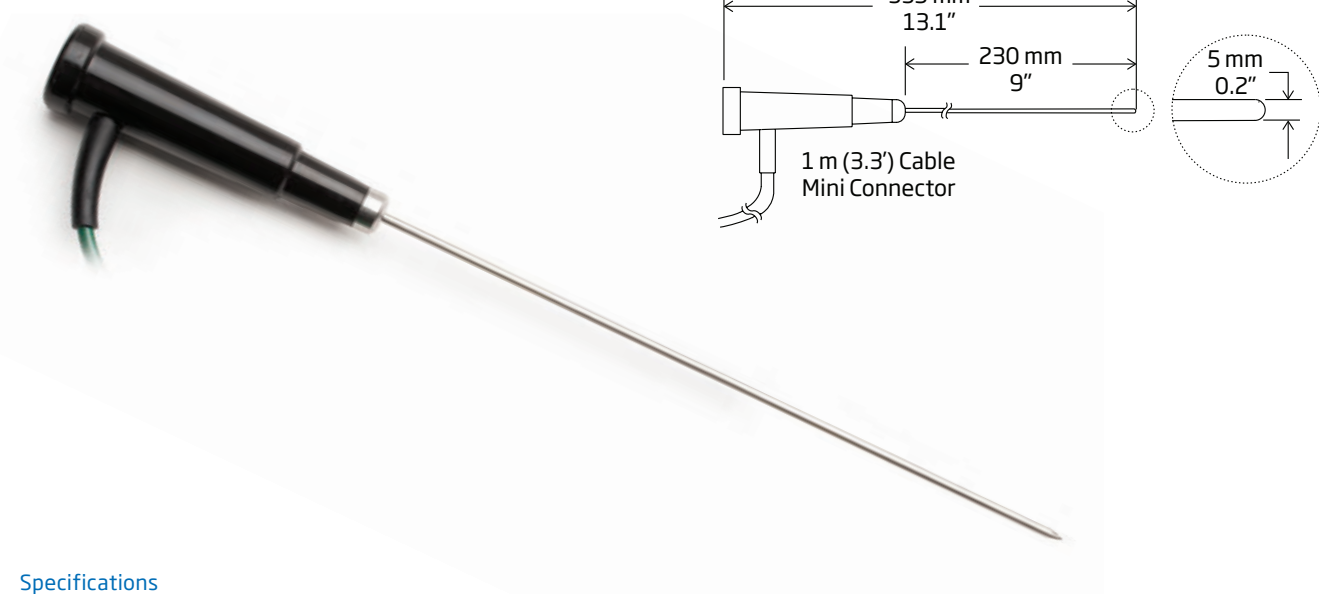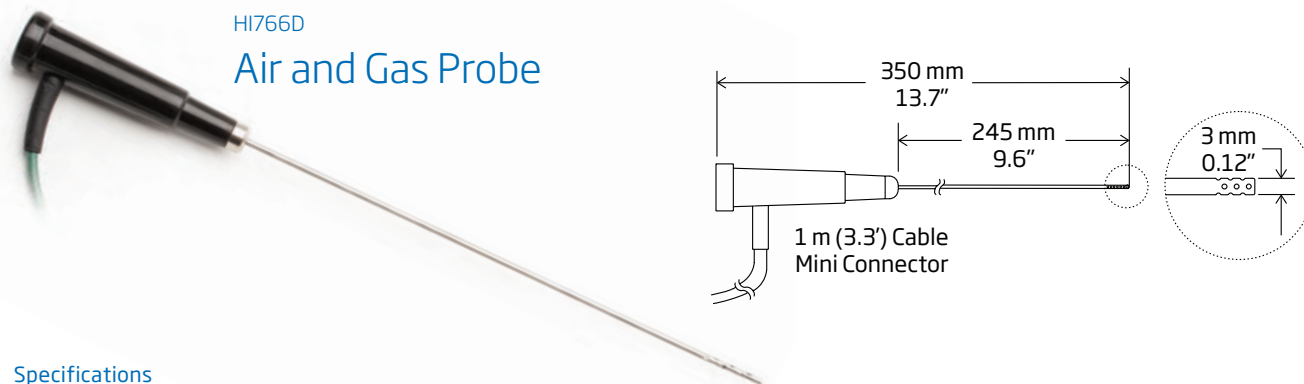
3 mm
0.12"

1 m (3.3') Cable
Mini Connector
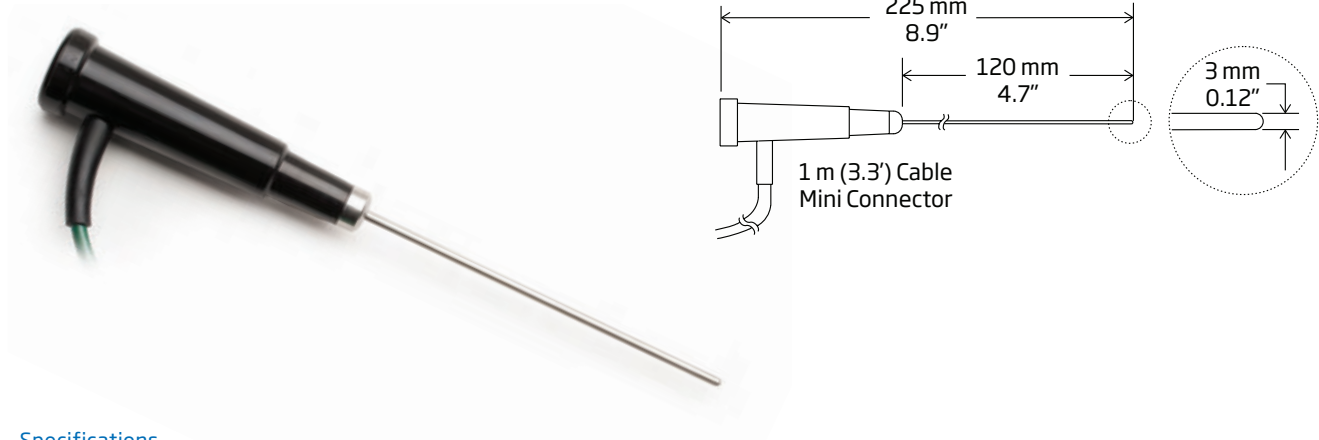
Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766E1	900°C (1650°F)	17 seconds	L 120 mm x dia 3 mm (4.7 x 0.12")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766E2
General Purpose Probe

335 mm
13.1"

230 mm
9"

5 mm
0.2"

1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766E2	900°C (1650°F)	35 seconds	L 230 mm x dia 5 mm (9.0 x 0.2")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766 K-Type Thermocouple Probes

General Specifications
Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

HI766D
Air and Gas Probe

350 mm
13.7"

245 mm
9.6"

3 mm
0.12"

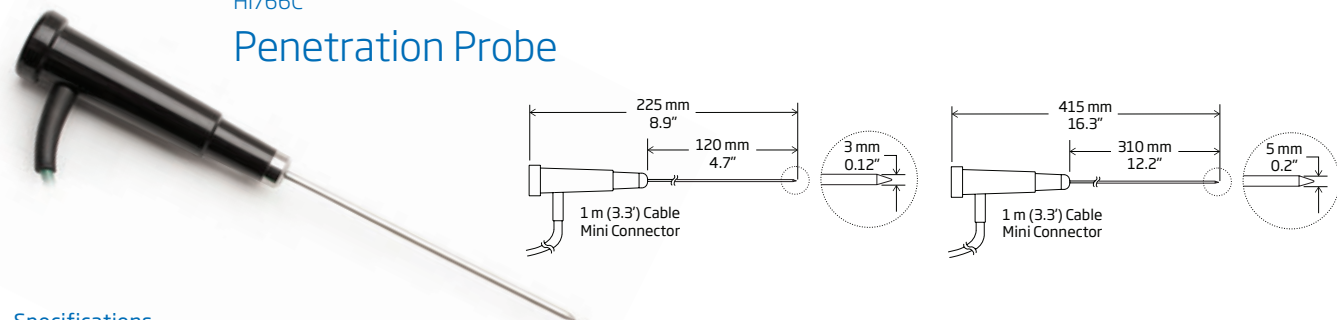1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length	Connector Type
HI766D	300°C (570°F)	5 seconds	L 245 mm x dia 3 mm (9.6 x 0.12")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766C
Penetration Probe

225 mm
8.9"

120 mm
4.7"

3 mm
0.12"

1 m (3.3') Cable
Mini Connector

415 mm
16.3"

310 mm
12.2"

5 mm
0.2"

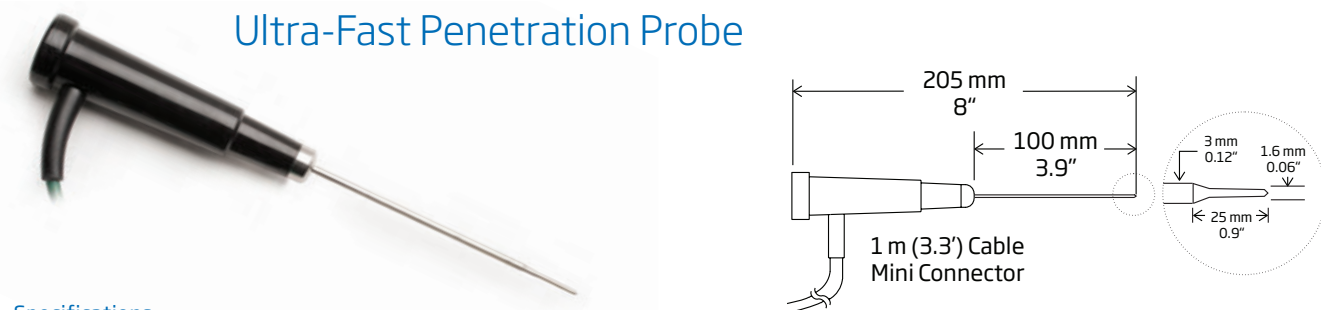1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length	Connector Type
HI766C	900°C (1650°F)	15 seconds	L 120 mm x dia 3 mm (4.7 x 0.12")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type
HI766CL	900°C (1650°F)	10 seconds	L 310 mm x dia 5 mm (12.2 x 0.2")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766C1
Ultra-Fast Penetration Probe

205 mm
8"

100 mm
3.9"

3 mm
0.12"

1.6 mm
0.06"

25 mm
0.9"

1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length	Connector Type
HI766C1	300°C (570°F)	3 seconds	L 100 mm x dia 1.6 mm (3.9 x 0.06")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

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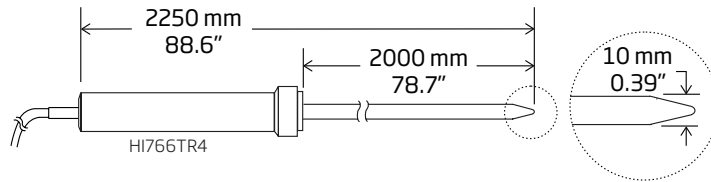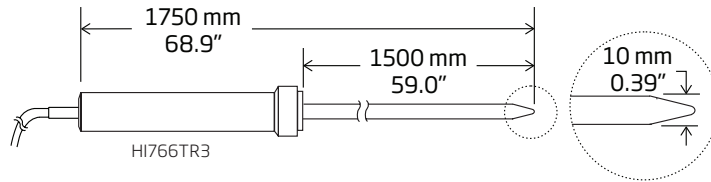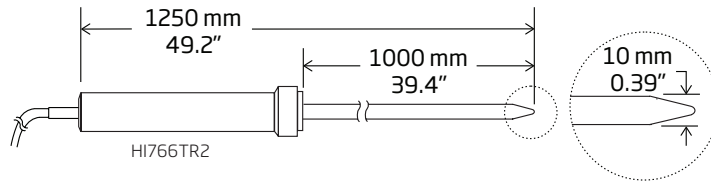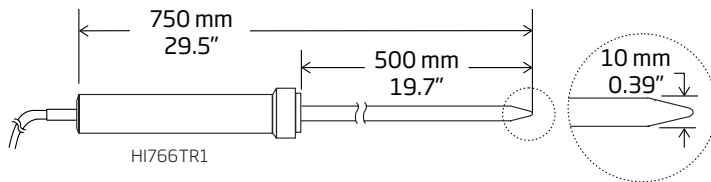## General Specifications

Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

HI766 K-Type Thermocouple Probes

HI766TR1, HI766TR2, HI766TR3, HI766TR4

Penetration Probes for Semi-Solid Samples

750 mm 29.5"   500 mm 19.7"   10 mm 0.39"
HI766TR1

1250 mm 49.2"   1000 mm 39.4"   10 mm 0.39"
HI766TR2

1750 mm 68.9"   1500 mm 59.0"   10 mm 0.39"
HI766TR3

2250 mm 88.6"   2000 mm 78.7"   10 mm 0.39"
HI766TR4

Temperature

thermocouple probes

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766TR1	250°C (482°F)	14 seconds	L 500 mm x dia 10 mm (19.7 x 0.39")	stainless steel	PVC	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type
HI766TR2	250°C (482°F)	14 seconds	L 1000 mm x dia 10 mm (3.3' x 0.39")	stainless steel	PVC	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type
HI766TR3	250°C (482°F)	14 seconds	L 1500 mm x dia 10 mm (5' x 0.39")	stainless steel	PVC	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type
HI766TR4	250°C (482°F)	14 seconds	L 2000 mm x dia 10 mm (6.6' x 0.39")	stainless steel	PVC	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

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14.13

HI766

HI766 K-Type Thermocouple Surface Probes

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.
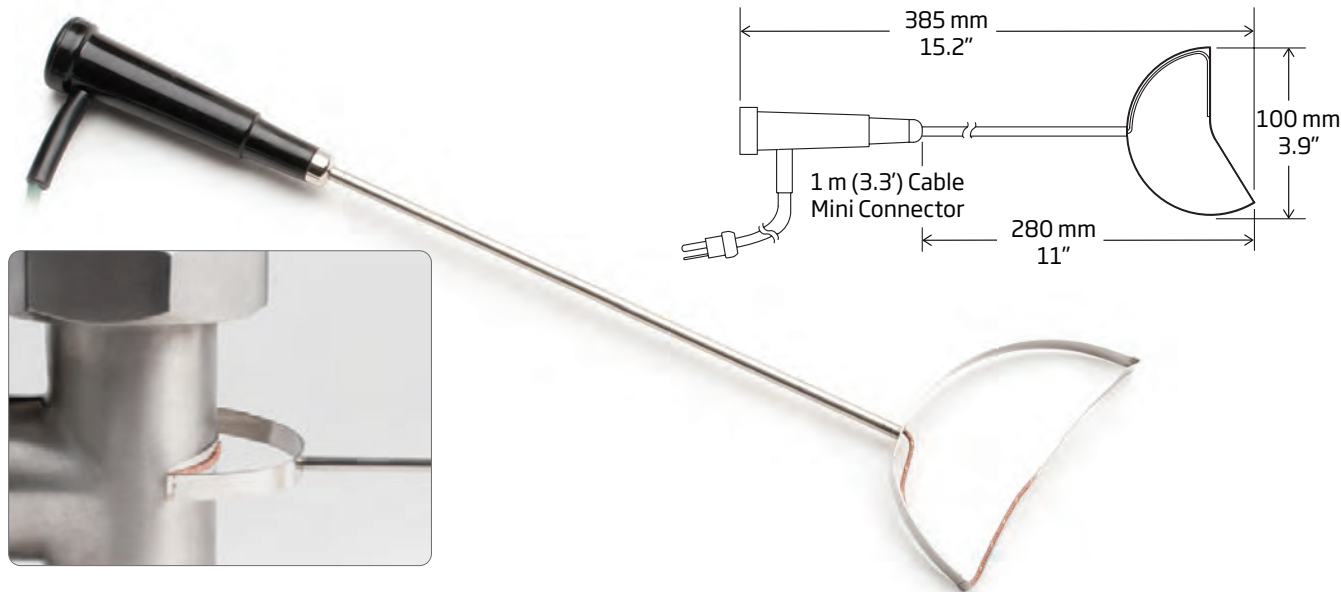
General Specifications
Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

HI766A

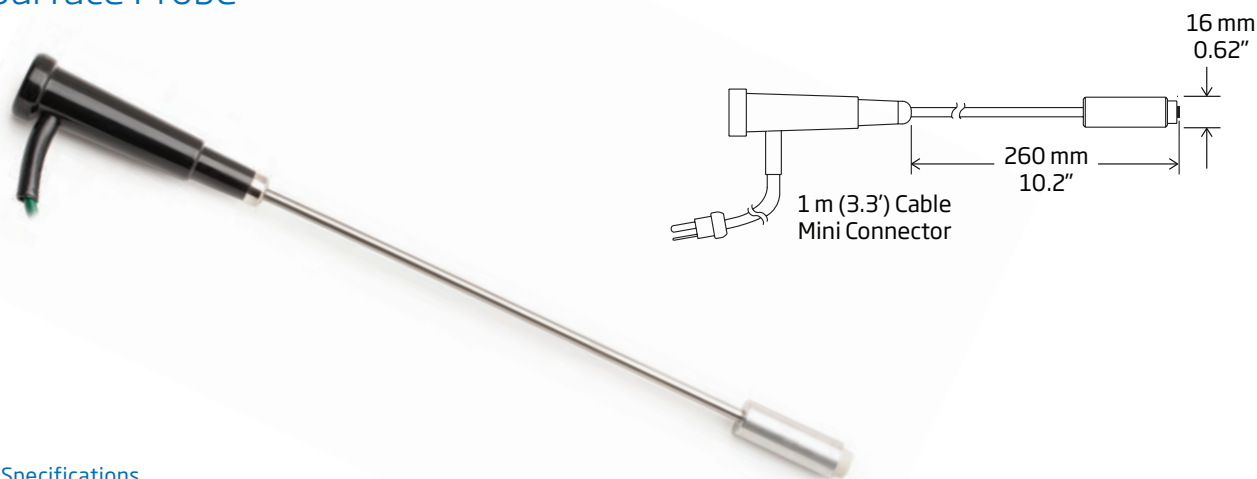## Roller Surface Probe for Convex Surfaces

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766A	320°C (600°F)	4 seconds	L 280 mm x 100 mm (11 x 3.9") (probe length)	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766B

Surface Probe

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766B	650°C (1200°F)	8 seconds	L 260 mm x dia 16 mm 10.2 x 0.6")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

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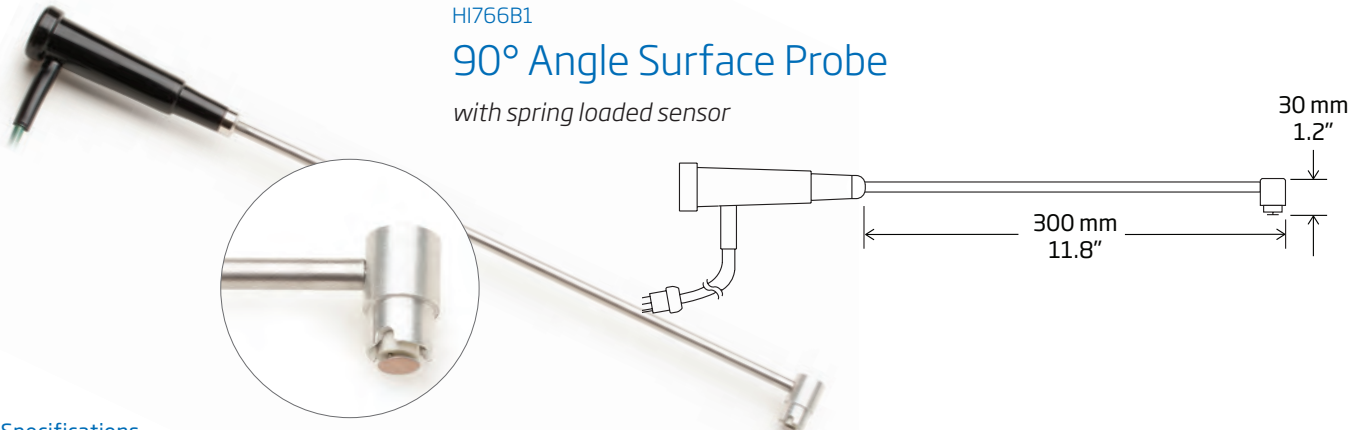| General Specifications |
|---|
| Accuracy |
| ±1.5°C (up to 375°C)
±0.004 x T °C (above 375°C) |

HI766 K-Type Thermocouple Surface Probes

HI766B1
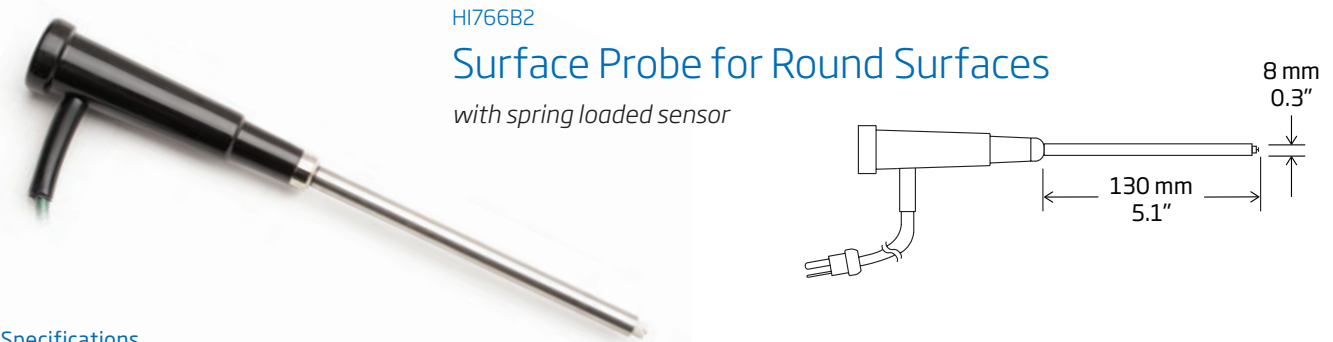## 90° Angle Surface Probe
with spring loaded sensor

30 mm
1.2"

300 mm
11.8"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766B1	450°C (840°F)	8 seconds	L 300 mm x dia 30 mm (11.8 x 1.2")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766B2
Surface Probe for Round Surfaces
with spring loaded sensor

8 mm
0.3"

130 mm
5.1"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766B2	900°C (1650°F)	5 seconds	L 130 mm x dia 8 mm (5.1 x 0.3")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

HI766B3
Surface Probe for Small Surfaces
with spring loaded sensor

5 mm
0.2"

130 mm
5.1"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766B3	200°C (390°F)	6 seconds	L 130 mm x dia 8 mm (5.1 x 0.3")	stainless steel	Polypropylene (PP)	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

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HI766

HI766 K-Type Thermocouple Probes without Handle

The HI766P 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. Probes in this section are recommened to be used with the HI766HD probe handle and/or HI766EX extension cable. All probes are made of stainless steel for long life and easy cleaning.

HI766HD

Probe 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 HI766P probe.

Specifications

Code	Probe Handle	Probe Handle Color	Cable Type	Cable Color / Length	Connector Type
HI766HD	Polypropylene (PP)	black	Polyurethane (PUR)/coiled	green / 1 m (3.3')	K-Type

HI766EX

Extension Cable

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

Specifications

Code	Cable Type	Cable Color / Length	Connector Type
HI766EX	Polyurethane (PUR)/coiled	green / 1 m (3.3')	K-Type

HI766PD

Air and Gas Probe

250 mm 9.8"

3 mm 0.12"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PD	300°C (570°F)	5 seconds	L 250 mm x dia 3 mm (9.8 x 0.12")	stainless steel	K-Type
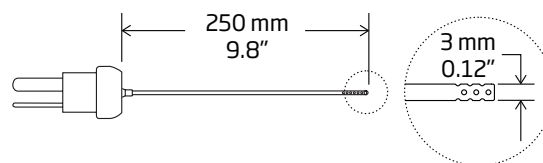
HI766PC

Penetration Probe, General Purpose

150 mm 5.9"

3 mm 0.12"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PC	900°C (1650°F)	15 seconds	L 150 mm x dia 3 mm (5.9 x 0.12")	stainless steel	K-Type
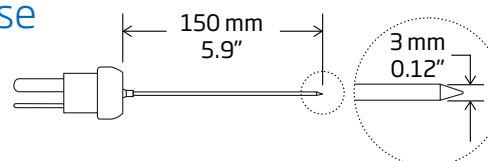
HANNA instruments | www.neonics.co.th

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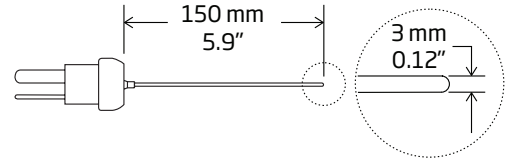
General Specifications

Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

HI766 K-Type Thermocouple Probes without Handle

HI766PE1
General Purpose Probe

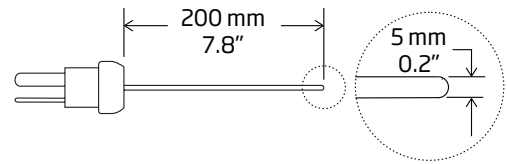150 mm 5.9"   3 mm 0.12"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PE1	900°C (1650°F)	16 seconds	L 150 mm x dia 3 mm (5.9 x 0.12")	stainless steel	K-Type

HI766PE2
General Purpose Probe

200 mm 7.8"   5 mm 0.2"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PE2	900°C (1650°F)	35 seconds	L 200 mm x dia 5 mm (7.8 x 0.2")	stainless steel	K-Type

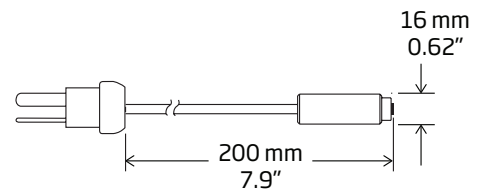### HI766PA
Roller Surface Probe for Convex Surfaces
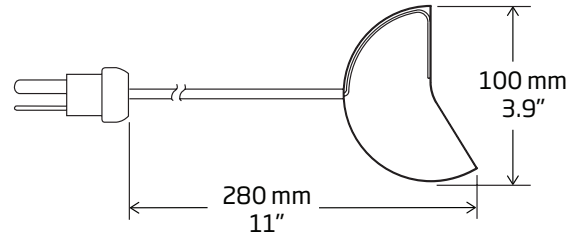
100 mm 3.9"   280 mm 11"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PA	320°C (600°F)	5 seconds	L 280 mm x 100 mm (11 x 3.9")	stainless steel	K-Type

HI766PB
Surface Probe

16 mm 0.62"   200 mm 7.9"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Connector Type
HI766PB	650°C (1200°F)	4 seconds	L 200 mm x dia 16 mm (7.9 x 0.6")	stainless steel	K-Type

HI766 K-Type Thermocouple Wire Probes

Temperature

HI766F

High Temperature Wire Probe

with flexible sheath
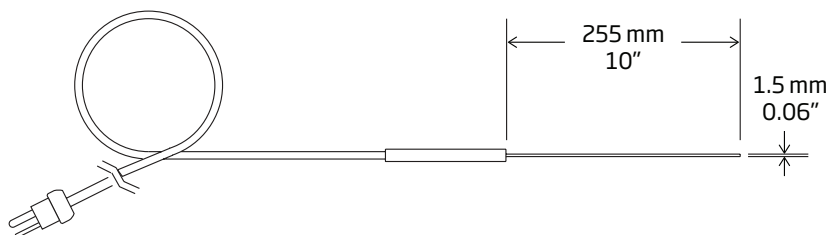
255 mm
10"

1.5 mm
0.06"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Cable Type	Cable Length	Connector Type
HI766F	1100°C (2000°F)	3 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	AISI 316 stainless steel	Aluminum	fibre glass with stainless steel overbraid / straight	1 m (3.3')	K-Type

HI766F1

Wire Probe for Hard to Reach Places

thermocouple probes

2 mm
0.08"

1 m
3.3'

HI766F1

HI766F1

2 mm
0.08"

5 m
16.4'
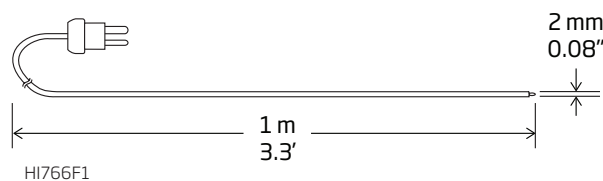
HI766F1/5

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Sensor	Cable Type	Cable Length	Connector Type
HI766F1	480°C (900°F)	4 seconds	dia 2 mm (0.08")	exposed wire	fibreglass/straight	1 m (3.3')	K-Type
HI766F1/5	480°C (900°F)	4 seconds	dia 2 mm (0.08")	exposed wire	fibreglass/straight	5 m (16.4')	K-Type

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General Specifications	
Accuracy	
±1.5°C (up to 375°C)	
±0.004 x T °C (above 375°C)	

HI766Z
Wire Probe for Ovens

255 mm
10"

1.5 mm
0.06"

Specifications

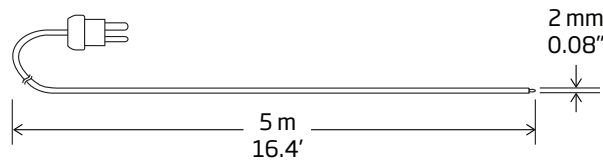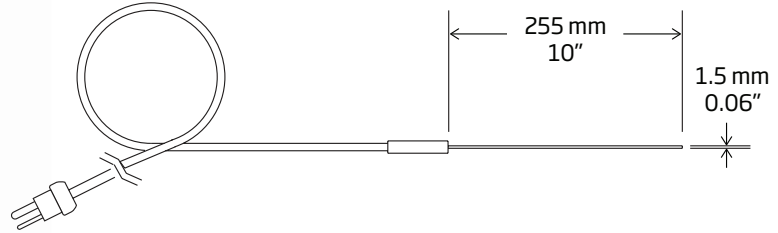| Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Cable Type	Cable Length	Connector Type
HI766Z	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	stainless steel/ straight	1.7 m (5.6')	K-Type
HI766Z/3	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	stainless steel/ straight	3 m (9.9')	K-Type
HI766Z/7	1100°C (2000°F)	4 seconds	L 255 mm x dia 1.5 mm (10 x 0.06")	stainless steel	stainless steel/ straight	7 m (22.9')	K-Type

HI766TV1
Clamp Probe for Pipes and Tubes

35 mm Max.
1.4"

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	sensor	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI766TV1	200°C (390°F)	4 seconds	Clamp Opening Diameter max 35 mm (1.4")	housed inside the clamp	ABS	Black	Polyurethane (PUR)/coiled	green / 1 m (3.3') cable	K-Type

thermocouple probes

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HANNA instruments

14.19

Thermistor Thermometers

- HOLD
  - HOLD Feature
- BEPS
  - Alerts the user of low battery power that could adversely affect readings
- Battery indicator
  - Battery level indicator at startup
- Backlight
  - Backlit display (N version)
- Waterproof
  - Compact, heavy-duty and waterproof

The HI93510 is a waterproof thermometer tailored for the lab and field. The LCD displays the highest and lowest readings in the cycle along with the current temperature. To freeze the reading for easy recording, simply press the HOLD button. Celsius or Fahrenheit range can be selected at the touch of a button.

The HI93510N offers all the features of the HI93510 plus a CAL button to allow the operator to calibrate the meter and probe in an ice bath at 0°C. This will assure the removal of the combined meter and probe interchange error. In addition to calibration capabilities, HI93510N has a user-activated backlit display.

A diverse assortment of HI762 probes and cable lengths are available. Probes can be ordered with different handle colors to prevent cross-contamination.

Advanced battery management features include a display of remaining battery power at startup, low battery warning and BEPS (Battery Error Prevention System), which alerts the user in the event that low battery power could adversely affect readings.

Specifications	HI93510	HI93510N
Range	-50.0 to 150.0°C; -58.0 to 302.0°F	
Resolution	0.1°C; 0.1°F (-58.0 to 230.0°F) and 0.2°F (outside)	
Accuracy	±0.4°C; ±0.8°F (for 1 year, excluding probe error)	
Probe	HI762BL air/liquid, stainless steel thermistor temperature probe with black handle and 1 m (3.3') cable (included)	
CAL Button	N/A	yes
Backlit LCD	N/A	yes
Battery Type / Life	1.5V AA (3) / approximately 2000 hours of continuous use (with backlight off); HI93510 only: auto-off selectable after 8 or 60 minutes of non-use (can be disabled)	
Environment	-10 to 50°C (14 to 122°F); RH max 100%	
Dimensions	150 x 80 x 36 mm (5.9 x 3.1 x 1.4")	
Weight	235 g (8.3 oz.)	

Ordering Information	HI93510 and HI93510N are supplied with HI762BL temperature probe, batteries and instructions.	
Probes	HI762L	Liquid, stainless steel thermistor temperature probe with white handle and 1 m (3.3') cable
	HI762A	Air/gas, stainless steel thermistor temperature probe with white handle and 1 m (3.3') cable
Accessories	HI710007	blue shockproof rubber boot
	HI710008	orange shockproof rubber boot

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HI762 Thermistor Probes

General Specifications

Sensor	Range	Accuracy	Interchange Error	Connector Type
NTC Thermistor	-50 to 150°C (-58 to 302°F)	±0.2°C (±0.4°F)	±0.2°C (±0.4°F)	RCA

HI762A
Air and Gas Probe

205 mm
8"

100 mm
3.9"

3 mm
0.12"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length
HI762A	5 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	white /1 m (3.3') Cable

HI762L, HI762BL
Liquid Probe, General Purpose

205 mm
8"

100 mm
3.9"

3 mm
0.12"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length
HI762L	5 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	white /1 m (3.3') Cable
HI762L/2	5 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	2 m (6.6') Cable
HI762L/10	5 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	black /10 m (32.8') Cable
HI762BL	6 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	black	PVC/straight	1 m (3.3') Cable

Calibration Test Keys for Thermistor Thermometers

For measurements that are always reliable, thermometers must be calibrated periodically. Hanna test keys offer a fast and simple way of checking the accuracy of your instruments. Connect the key to the probe input. If the reading on the display differs more than 0.4°C (0.8°F) from the key rated value, your thermometer should be recalibrated at our technical service center.

Test Keys for Thermometers Using HI762 Probes

HI762-18C	Test key at -18°C	**HI762-004F**	Test key at -0.4°F
HI762000C	Test key at 0°C	**HI762032F**	Test key at 32°F
HI762070C	Test key at 70°C	**HI762158F**	Test key at 158°F

For periodic verification of your thermometer's calibration, it is recommended to check at least two points. Choose the test keys with the nominal values closest to the temperature usually measured.

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HI762
HI762 Thermistor Probes
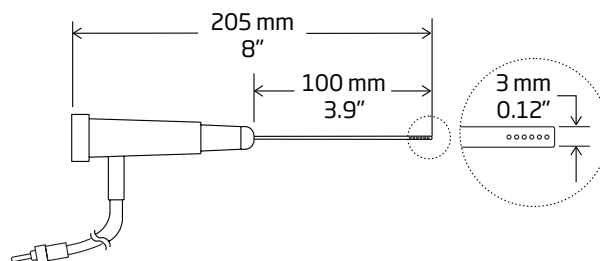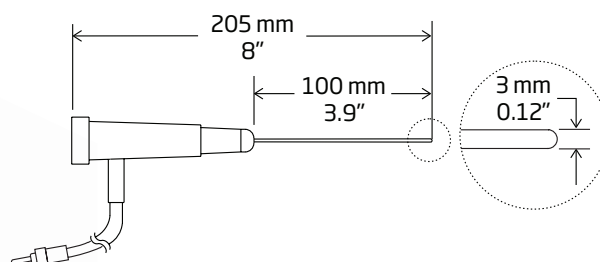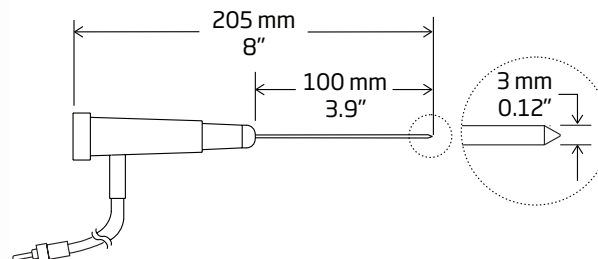
HI762PW, HI762PBL
Penetration Probe, General Purpose

205 mm
8"
100 mm
3.9"
3 mm
0.12"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Length
HI762PBL	14 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	blue	PVC/straight	1 m (3.3') Cable
HI762PW	6 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	1 m (3.3') Cable

HI762PWL
Sharp tip Probe for Penetration of Semi-solid Samples.

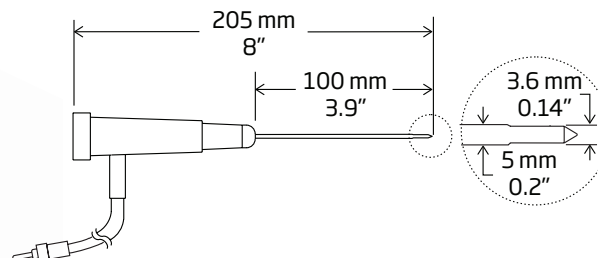205 mm
8"
100 mm
3.9"
3.6 mm
0.14"
5 mm
0.2"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Length
HI762PWL	10 seconds	L 100 mm x dia 3.6 mm (3.9 x 0.15")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	1 m (3.3') Cable

HI762W
Wire Probe for Hard to Reach Places

Probe does not incorporate a handle.
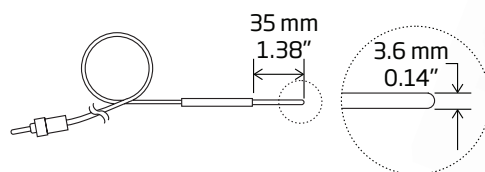
35 mm
1.38"
3.6 mm
0.14"

HI762W/10

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length
HI762W	7 seconds	L35mm x dia 3.6mm (1.38" x 0.14")	AISI 316 stainless steel	–	–	PVC/straight	1 m (3.3') Cable
HI762W/10	7 seconds	L35mm x dia 3.6mm (1.38" x 0.14")	AISI 316 stainless steel	–	–	PVC/straight	black /10 m (32.8') Cable

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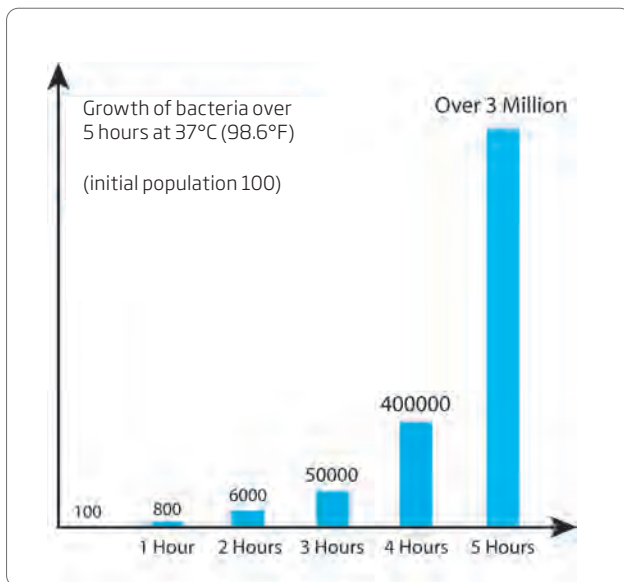**HANNA** instruments | www.neonics.co.th

Hanna Thermometers for the Food Sector

Operators in the food sector need an extensive range of products in order to guarantee the quality and safety of food supplied to the public while maintaining compliance with local and federal laws. In order to satisfy the need for quality, safety, and compliance, Hanna manufactures a vast range of products with the necessary accuracy and reliability to check the quality of food in all phases of preparation and distribution.

Many of Hanna's portable and pocket thermometer lines have become synonymous with temperature control in restaurants and catering facilities.

For the adverse measurement conditions found in food production areas, typically with high humidity and condensation problems, Hanna has manufactured a substantial array of waterproof meters.

To satisfy the requirements of HACCP, Hanna supplies a complete range of thermometers and pH meters to check goods from production to transport and from catering to storage. Documentation is a must in certain production cycles and important for HACCP programs. For this Hanna offers a range of logging meters. These are stand-alone meters that can measure and log the parameters without any supervision. Shock-resistant protective boots are available for many of our instruments.

The table below lists recommended temperatures for different products. It is vital to monitor and document the temperature to which food has been exposed.

Product	Temp.	Product	Temp.
Chunks of Meat	≤ 7°C	Smoked Fish	≤ 7°C
Minced Meat	≤ 4°C	Frozen Food	≤ -18°C
Innards	≤ 3°C	Milk	≤ 7°C
Frozen Chicken	≤ -12°C	Fruit and Vegetables	≤ 10°C
Deep-freeze Chicken	≤ -18°C	Eggs	≤ 8°C
Fresh Fish	≤ 2°C	Dried Fruit	≤ 25°C

Products and their recommended storage temperatures

Growth of bacteria over 5 hours at 37°C (98.6°F)

(initial population 100)

Over 3 Million

400000

50000

6000

100   800

1 Hour   2 Hours   3 Hours   4 Hours   5 Hours

Temperature plays an important role in the processing and preparation of edible products containing meat

Meat

The temperature of meat at slaughterhouses is a vital quality control test and needs to be checked at various points of production. Fresh meat should be stored at about 2°C (35.6°F).

For deep-freeze meat in storage, it should have an internal temperature around -22°C (-7.6°F) with the surface temperature reaching -35°C (-31°F). In order to thaw the meat properly, the surrounding temperature should be 7°C (44.6°F).

Ham and Sausages

The temperature of salted meat stored for several months is around 2°C (35.6°F). Afterwards, the product is rinsed and dried at around 25°C (77°F) prior to maturing at a preset temperature for a particular product. For sausages, the mixed ingredients are cooked at a certain temperature and then cooled at around 5 to 15°C (41 to 59°F).

Temperature

Temperature of food is constantly monitored to keep growth of pathogens and microorganisms under control. Temperature is important in production to ensure that the food is not spoiled and the quality is not compromised, therefore enhancing it's value. Food needs to be kept at the correct temperature while stored, displayed, and on the move. If temperature is not properly controlled, bacteria can grow to dangerous levels in just a few hours.

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Temperature

foodcare thermistor thermometers

BEER line

HI935012

Brewing Thermometer

with 1 m stainless steel probe

- FC762N2 1 m (3.3') stainless steel thermistor probe
- Durable IP67 waterproof casing
  - Designed to withstand the knocks, drops, and spills of real life, the new IP67 body ensures top performance in any environment. These meters are totally protected against dust and water intrusion from any direction.
- Probe Error Messages
  - The "NO PROBE" message is displayed on the meter when a probe is not attached or there is a break in the cable.
- CAL Check™
  - The calibration check (CAL Check) feature of the HI935012 is an internal diagnostic feature that checks for any drift in the electronics that occurs with all digital thermometers over time. When the meter is turned CAL Check looks to see if the internal calibration is within +/- 0.3 oC. If the drift is greater and error (err) message will be displayed. With CAL Check you can be confident that the meter is working properly.
- Large LCD
  - An enhanced LCD displays the measurement reading in oC or oF, stability indicator, error messages, and low battery indicator.
- Stability Indicator
  - An hourglass indicator is displayed on the LCD until a stable reading is obtained. Once a reading stabilizes, the indicator disappears and a reading can be recorded.
- Long Battery Life:
  - The thermometer has an exceptional battery life of approximately 4500 hours using three common AAA batteries. The battery percent level is displayed when powered on alerting the user to the remaining battery life.
- Automatic Shut-off
  - The meter can be set to automatically turn off after 8 minutes or 60 minutes to conserve battery life in the event that the meter is left on. The auto-off feature can also be disabled.

HI935012 includes HI710026 blue shockproof rubber boot to offer maximum impact protection.

The HI935012 is a waterproof portable thermistor thermometer made for the brewing professional that needs to measure the temperature in the center of a tank or vessel. This meter can be used at other critical points of the brewing process including the wort boil and fermentation. The HI935012 is supplied with the FC762N2 thermistor probe that is made of stainless steel and is 1 meter long. For a fast and accurate measurement the pre-calibrated semi-conductor sensor is located in the tip of the probe.

The HI935012, as a meter, can measure over a wide range of temperatures from -50.0 oC (-58.0 oF) up to 150 oC (302 oF) and offers a very high accuracy of +/-0.1 oC (+/-0.2 oF). The accuracy of the meter is assured with advanced diagnostic features including CAL-Check that checks for an abnormal drift of the internal electronics. Using a properly prepared ice bath, the meter and probe can be calibrated by the user. Additional features to have confidence in the measurements include a battery error prevention system (BEPS) that will not allow a reading to be taken when there is not sufficient battery power and probe diagnostics that alert the user when the probe is not connected.

Supplied with Instrument Quality Certificate– HI935012 with the FC762N2 are calibrated according to an ISO9001 calibration system using standards and reference instruments in which the accuracy is traceable the National Institute of Standards (NIST) in the USA, or to internationally acceptable physical standards.

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1 M stainless steel probe

The supplied FC762N2 thermistor probe that is 1 M (39") long and 10 mm (0.39") in diameter. This extra long probe allows for the measurement of temperature in the middle of tank to make sure it is consistent throughout.

Supplied with carrying case

The HI935102 is supplied with a soft carrying case that holds both the probe and the meter. There is a pouch inside for easy access to the meter.

Interchangeable with FC762 series thermistor probes

Specifications	HI935012
Range*	-20.0 to 120.0°C; -4.0 to 248.0°F
Resolution	0.1°C; 0.1°F
Meter Accuracy @ 23.0°C ±5°C	±0.1°C (-20.0 to 120.0°C); ±0.2°F (-4.0 to 248.0°F)
Probe Accuracy (FC762N2)	±0.3°C (-10.0 to 80.0°C); ±0.5°F (14 to 176°F); ±0.7°C / ±1.3°F remaining range
Probe	FC762N2 1 m (3.3') penetration probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 4500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	for product internal measurement: rated operating condition: -20 to 50°C (-4 to 122°F) limiting condition: -30 to 50°C (-22 to 122°F) storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	175 g (6.17 oz.)
Ordering Information	**HI935012** is supplied with FC762N2 temperature probe, protective rubber boot, 1.5V AAA batteries (3), quick reference guide, and instructions in a soft carrying case.

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foodcare thermistor thermometers

Foodcare

HI93501

Thermistor Thermometer

- EN 13485 compliant
- FC762PW thermistor probe
- CAL Check™ feature
- Remaining battery life indication / low battery detection
- Auto-off
- IP65 Waterproof casing

Food service, food preparation, packaging, storage and transport of food require temperature to be monitored or controlled. Spot checking temperatures with Hanna food thermometers ensures daily work routines are carried out at the correct temperature.

HI93501 is a thermistor style thermometer that includes a stainless steel replaceable style penetration probe (FC762PW). It measures temperatures from -50 to 150°C (-58 to 302.0°F).

Standard features include waterproof casing (rated IP65) and stainless steel penetration probe designed for continuous contact with foodstuffs in accordance with regulation (EC) number 1935/2004. HI93501 also includes features such as CAL Check, low battery detection, auto-off capability, and long battery life.

Our optional HI710026 blue shockproof rubber boot offers maximum impact protection.

Interchangeable with FC762 series thermistor probes

Specifications	HI93501
Range*	-50.0 to 150.0°C; -58.0 to 302.0°F
Resolution	0.1°C; 0.1°F
Meter Accuracy @ 23.0°C ±5°C	±0.1°C (-50.0 to 150.0°C); ±0.2°F (-58.0 to 302.0°F)
Probe Accuracy (FC762PW)	±0.3°C (-10.0 to 80.0°C); ±0.5°F (14 to 176°F); ±0.7°C / ±1.3°F remaining range
Response time for 90% of final value	10 seconds
Probe	FC762PW general purpose penetration probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 4500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	for air measurement: Type E
	for product internal measurement: rated operating condition: -20 to 50°C (-4 to 122°F) limiting condition: -30 to 50°C (-22 to 122°F) storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	175 g (6.17 oz.)
Certification	EN 13485:2001 suitability: storage and transport; climatic environment: E; accuracy class: 1;
Ordering Information	**HI93501** is supplied with FC762PW temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.

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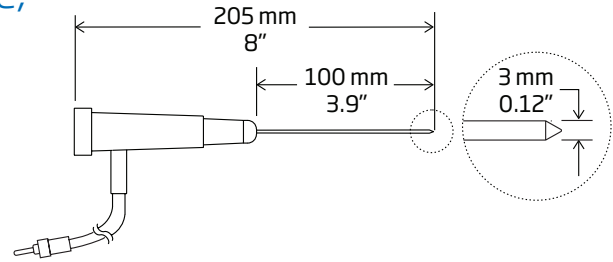Tel: 098-479-5684 หรือ 061-8268939
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General Specifications

| Sensor	Range	Accuracy	Interchange Error	Connector Type
NTC Thermistor	-50 to 150°C (-58 to 302°F)	±0.3°C (-10 to 80°C)/ ±0.5°F (14 to 176°F); ±0.7°C / ±1.3°F (outside)	±0.2°C (±0.4°F)	RCA

FC762PW

Foodcare Penetration Probe, General Purpose

205 mm 8"
100 mm 3.9"
3 mm 0.12"

Specifications

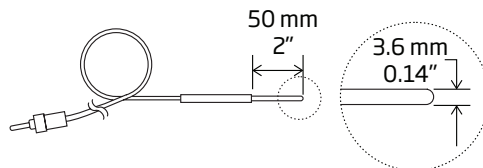| Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Length
FC762PW	6 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	PVC/straight	white / 2 m (6.6') Cable

FC762N2

Foodcare Probe for Tanks, Vessels, and Vats
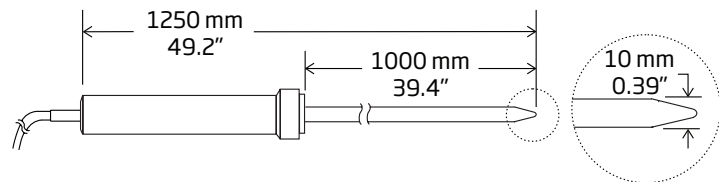
1250 mm 49.2"
1000 mm 39.4"
10 mm 0.39"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length
FC762N2		L 1000 mm x 10 mm (39" x 0.39")	Stainless steel	PVDF	white	PVC/straight	white / 2 m (6.6')

FC762W1/2

Wire probe designed for liquid immersion

Probe does not incorporate a handle.

50 mm 2"
3.6 mm 0.14"

Specifications

Code	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/Length
FC762W1/2	2min 45sec (98%FS)	L 50 mm x dia 3.6 mm (2" x 0.14")	AISI 316 stainless steel	–	–	PVC/straight	white /2 m (6.6')

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foodcare thermocouple thermometers

Foodcare

HI935001

K-Type Thermocouple Thermometer

- FC766PW K-type thermocouple probe
- CAL Check™ feature
- Remaining battery life indication/ low battery detection
- Auto-off
- IP65 Waterproof casing

Food service, food preparation, packaging, storage and transport of food require temperature to be monitored or controlled. Spot checking temperatures with Hanna food thermometers ensures daily work routines are carried out at the correct temperature.

HI935001 is a thermometer that includes a K-type thermocouple stainless steel replaceable style penetration probe (FC766PW). This thermometer offers a large range of temperature measurement; from -50 to 300°C (-58.0 to 572°F).

Standard features include waterproof casing (rated IP65) and stainless steel penetration probe designed for continuous contact with foodstuffs in accordance with regulation (EC) number 1935/2004. HI935001 also includes features such as CAL Check, low battery detection, auto-off capability, and long battery life.

Interchangeable with FC766 series thermocouple probes

Our optional HI710027 blue shockproof rubber boot offers maximum impact protection.

Specifications	HI935001
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
Meter Accuracy @ 23.0°C ±5°C	±0.4°C (-50.0 to 300°C); ±0.7°F (-58.0 to 572°F)
Probe Accuracy (FC766PW)	±1.6°C (-50.0 to 300°C); ±2.9°F (-58.0 to 572°F)
Response time for 90% of final value	20 seconds
Probe	FC766PW penetration, K-type thermocouple probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	Rated operating condition: -20 to 50 °C (-4 to 122 °F)
	limiting condition: -30 to 50°C (-22 to 122°F)
	storage and transportation condition: -40 to 70 °C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Weight	178 g (6.27 oz.)

Ordering Information

HI935001 is supplied with FC766PW temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.
HI935001-03 includes the above without probe.

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Foodcare

HI935004

T-Type Thermocouple Thermometer

- EN 13485 compliant
- FC767PW T-type thermocouple probe
- CAL Check™ feature
- Remaining battery life indication / low battery detection
- Auto-off
- IP65 Waterproof casing

Food service, food preparation, packaging, storage and transport of food require temperature to be monitored or controlled. Spot checking temperatures with Hanna food thermometers ensures daily work routines are carried out at the correct temperature.

HI935004 is a thermometer that that includes a T-type thermocouple stainless steel replaceable style penetration probe (FC767PW). This thermometer offers temperature measurement from -50 to 300°C (-58.0 to 572°F).

Standard features include waterproof casing (rated IP65) and stainless steel penetration probe designed for continuous contact with foodstuffs in accordance with regulation (EC) number 1935/2004. HI935004 also includes features such as CAL Check, low battery detection, auto-off capability, and long battery life.

Interchangeable with FC767 series thermocouple probes

Our optional HI710027 blue shockproof rubber boot offers maximum impact protection.

Specifications	HI935004
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
Meter Accuracy @ 23.0°C ±5°C	±0.4°C (-50.0 to 300°C); ±0.7°F (-58.0 to 572°F)
Probe Accuracy (FC767PW)	±0.6°C (-50 to 100.0°C); ±1.6°C (100.0 to 300°C); ±1.1°F (-58 to 212°F); ±2.9°F (212 to 572°F)
Response time for 90% of final value	20 seconds
Probe	FC767PW penetration, T-type thermocouple probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	for air measurement: Type E
	for product internal measurement: rated operating condition: -20 to 50°C (-4 to 122°F) limiting condition: -30 to 50°C (-22 to 122°F) storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	178 g (6.27 oz.)
Certification	EN 13485:2001 suitability: storage and transport; climatic environment: E; accuracy class: 1;
Ordering Information	**HI935004** is supplied with FC767PW temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.

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Foodcare

HI9350011

K-Type Thermocouple Thermometer

with ultra-fast probe

- FC766C1 ultra-fast K-type thermocouple probe
- CAL Check™ feature
- Remaining battery life indication/ low battery detection
- Auto-off
- IP65 Waterproof casing

The HI9350011 is a waterproof portable K-Type thermocouple thermometer made for the food professional that is required to monitor temperature as part of a hazardous analysis of critical control points (HACCP) plan including in food service, production, packaging, transportation, restaurants or catering. The HI9350011, as a meter, can measure over a wide range of temperatures from -50.0°C (-58.0°F) up to 300°C (573°F) and offers a very high accuracy of ±0.4°C (±0.7°F). The accuracy of the meter is assured with advanced diagnostic features including CAL-Check that checks for abnormal drift of the internal electronics, battery error prevention system (BEPS) that will not allow a reading to be taken when there is not sufficient battery power and probe diagnostics that alert the user when the probe is not connected or has been damaged.

HI9350011 Foodcare thermometer is supplied with the replaceable FC766C1 Ultra-Fast K-Type thermocouple probe that will reach 90% of the final reading within 4 seconds. The tip of FC766C1 is just 1.6 mm (0.06") in diameter allowing for easy penetrations into solids and semi-solids. The AISI 316 stainless steel body is 95 mm (3.7") long and is safe for food contact in compliance with Regulation (EC) 1935/2004.

Our optional HI710027 blue shockproof rubber boot offers maximum impact protection.

Interchangeable with FC766 series thermocouple probes

Specifications	HI9350011
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
Meter Accuracy @ 23.0°C ±5°C	±0.4°C (-50.0 to 300°C); ±0.7°F (-58.0 to 572°F)
Probe Accuracy (FC766C1)	±1.6°C (-50.0 to 300°C); ±2.9°F (-58.0 to 572°F)
Response time for 90% of final value	4 seconds
Probe	FC766C1 penetration, K-type thermocouple probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	Rated operating condition: -20 to 50 °C (-4 to 122 °F)
	limiting condition: -30 to 50°C (-22 to 122°F)
	storage and transportation condition: -40 to 70 °C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Weight	178 g (6.27 oz.)
Ordering Information	**HI9350011** is supplied with FC766C1 temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.

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Our optional HI710027 blue shockproof rubber boot offers maximum impact protection.

Interchangeable with FC767 series thermocouple probes

HI9350041

T-Type Thermocouple Thermometer

with ultra-fast probe

- FC767C1 ultra-fast T-type thermocouple probe
- CAL Check™ feature
- Remaining battery life indication / low battery detection
- Stability Indicator
  - An hourglass indicator is displayed on the LCD until a stable reading is obtained.
- Auto-off
- IP65 Waterproof casing

The HI9350041 is a waterproof portable T-Type thermocouple thermometer made for the food professional that is required to monitor temperature as part of a hazardous analysis of critical control points (HACCP) plan including in food service, production, packaging, transportation, restaurants or catering. The HI9350041, as a meter, can measure over a wide range of temperatures from -50.0°C (-58.0°F) up to 300°C (572°F) and offers a very high accuracy of ±0.4°C (±0.7°F). The accuracy of the meter is assured with advanced diagnostic features including CAL Check that checks for abnormal drift of the internal electronics, battery error prevention system (BEPS) that will not allow a reading to be taken when there is not sufficient battery power and probe diagnostics that alert the user when the probe is not connected or has been damaged.

HI9350041 Foodcare thermometer is supplied with the replaceable FC767C1 Ultra-Fast T-Type thermocouple probe that will reach 90% of the final reading within 4 seconds. The tip of FC767C1 is just 1.6 mm (0.06") in diameter allowing for easy penetrations into solids and semi-solids. The AISI 316 stainless steel body is 95 mm (3.7") long and is safe for food contact in compliance with Regulation (EC) 1935/2004.

The HI9350041 with the HI767C1 is certified according to EN13485:2001 standard that has strict requirements for accuracy, response time, operating and storage conditions as applied to the measurement of product temperature which are intended for use in transportation, storage and distribution facilities of refrigerated, frozen or deep-frozen food and ice cream.

Specifications	HI9350041
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
Meter Accuracy @ 23.0°C ±5°C	±0.4°C (-50.0 to 300°C); ±0.7°F (-58.0 to 572°F)
Probe Accuracy (FC767C1)	±0.6°C (-50 to 100.0°C); ±1.6°C (100.0 to 300°C); ±1.1°F (-58 to 212°F); ±2.9°F (212 to 572°F)
Response time for 90% of final value	4 seconds
Probe	FC767C1 penetration, T-type thermocouple probe with 1 m (3.3') white cable and white handle
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	for air measurement: Type E
	for product internal measurement: rated operating condition: -20 to 50°C (-4 to 122°F) limiting condition: -30 to 50°C (-22 to 122°F) storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	178 g (6.27 oz.)
Ordering Information	**HI9350041** is supplied with FC767C1 temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.

Foodcare

HI935007

K-Type Thermocouple Thermometer

- Fixed K-type thermocouple probe
- CAL Check™ feature
- Remaining battery life indication/ low battery detection
- Auto-off
- IP65 Waterproof casing

Food service, food preparation, packaging, storage and transport of food require temperature to be monitored or controlled. Spot checking temperatures with Hanna food thermometers ensures daily work routines are carried out at the correct temperature.

HI935007 is a thermometer that incorporates a fixed K-type thermocouple stainless steel penetration probe to provide the greatest accuracy. This thermometer offers a large range of temperature measurement; from -50 to 300°C (-58.0 to 572°F).

Standard features include waterproof casing (rated IP65) and stainless steel penetration probe designed for continuous contact with foodstuffs in accordance with regulation (EC) number 1935/2004. HI935007 also includes features such as CAL Check, low battery detection, auto-off capability, and long battery life.

Fixed
thermocouple
probe

Our optional HI710026 blue shockproof rubber boot offers maximum impact protection.

Specifications	HI935007
Range*	-50.0 to 199.9°C / 200 to 300°C; -58.0 to 399.9°F / 400 to 572°F
Resolution	0.1°C (-50.0 to 199.9°C) / 1°C (200 to 300°C); 0.1°F (-58.0 to 399.9°F) / 1°F (400 to 572°F)
System Accuracy (Meter @ 23.0°C ±5°C)	±1°C (-50.0 to 100.0°C) / ±2 °C (100.0 to 300°C); ±1.8°F (-58.0 to 212°F) / ±3.6 °F (212 to 572°F)
Probe	fixed penetration, K-type thermocouple probe with 1 m (3.3') white cable and white handle
Response time for 90% of final value	20 seconds
Battery Type / Life	1.5V AAA (3) / approximately 3500 hours of continuous use; user-selectable auto-off after 8 or 60 minutes of non-use (can be disabled).
Environment	Rated operating condition: -20 to 50 °C (-4 to 122 °F)
	limiting condition: -30 to 50°C (-22 to 122°F)
	storage and transportation condition: -40 to 70°C (-40 to 158°F)
	relative humidity 100 %
Storage/transport temperature	-40 to 70°C (-40 to 158°F)
Dimensions	140 x 57 x 28 mm (5.5 x 2.2 x 1.1")
Mass	178 g (6.27 oz.)
Ordering Information	**HI935007** is supplied with fixed temperature probe, 1.5V AAA batteries (3), quick reference guide, and instructions.

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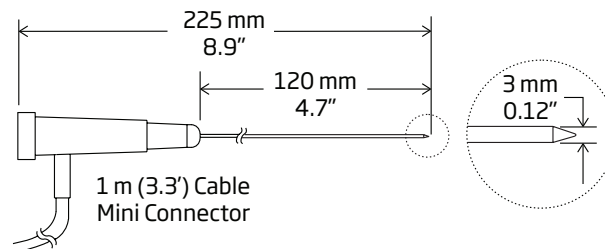E-mail: sale@neonics.co.th หรือ sale@tools.in.th

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FC766 Foodcare K-Type Thermocouple Probes

General Specifications
Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

FC766PW
Foodcare Penetration Probe

225 mm
8.9"

120 mm
4.7"

3 mm
0.12"

1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
FC766PW	300°C (570°F)	13 seconds	L 120 mm x dia 3 mm (4.7 x 0.12")	stainless steel	Polypropylene (PP)	white	Polyurethane (PUR)/coiled	white / 1 m (3.3')	K-Type

FC766C1
Foodcare Ultra-fast Probe

205 mm
8"

100 mm
3.9"

3 mm
0.12"

1.6 mm
0.06"

25 mm
0.9"

1 m (3.3') Cable
Mini Connector

Specifications

Code	Max. Temperature	Accuracy	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
FC766C1	300°C (570°F)	±1.6°C (-50 to 300°C)/±2.9°F (-58 to 573 °F)	3 seconds	L 100 mm x dia 3 mm (3.9 x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	Polyurethane (PUR)/coiled	white / 1 m (3.3')	K-Type

FC766TS Series
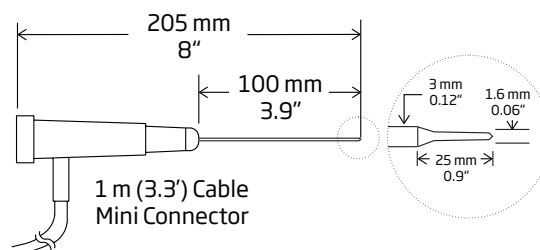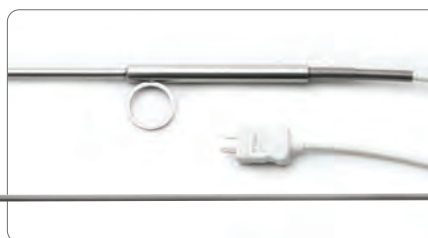## Foodcare Penetration Probe for Semi-Solid Samples

Specifications

Code	Range	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
FC766TS2	-40 to 400°C (-40 to 752°F)	14 seconds	L 200 mm x dia 6 mm (.66' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	K-Type
FC766TS5	-40 to 400°C (-40 to 752°F)	14 seconds	L 500 mm x dia 6 mm (1.64' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	K-Type
FC766TS7	-40 to 400°C (-40 to 752°F)	14 seconds	L 700 mm x dia 6 mm (2.29' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	K-Type
FC766TS10	-40 to 400°C (-40 to 752°F)	14 seconds	L 1000 mm x dia 6 mm (3.28' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	K-Type
FC766TS14	-40 to 400°C (-40 to 752°F)	14 seconds	L 1400 mm x dia 6 mm (4.59' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	K-Type

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FC766

FC766 Foodcare K-Type Thermocouple Probes without Handle

General Specifications	
Accuracy	
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)	

The FC766P 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. Probes in this section are recommened to be used with the FC766HD probe handle and/or FC766EX extension cable. All probes are made of stainless steel for long life and easy cleaning.

FC766HD

FC766EX

FC766HD

Foodcare Probe 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 FC766Px probe.

Specifications

| Code	Probe Handle	Probe Handle Color	Cable Type	Cable Color / Length	Connector Type
FC766HD	Polypropylene (PP)	white	Polyurethane (PUR)/coiled	white / 1 m (3.3')	K-Type

FC766EX

Foodcare Extension Cable

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

Specifications

Code	Cable Type	Cable Color / Length	Connector Type
FC766EX	Polyurethane (PUR)/ coiled	white / 1 m (3.3')	K-Type

FC766PC1

Foodcare Stainless Steel Probe with Exposed Sensor
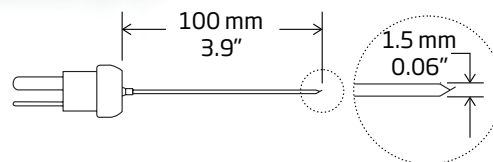
100 mm
3.9"

1.5 mm
0.06"

Specifications

Code	Range	Probe Dimensions	Probe Material	Sensor	Connector Type
FC766PC1	-40 to 300°C	L100mm x dia 1.5mm	stainless steel	exposed wires	K-Type

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General Specifications
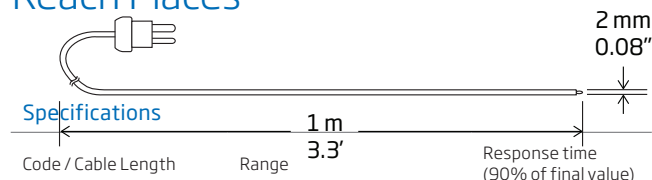
Accuracy
±1.5°C (up to 375°C) ±0.004 x T °C (above 375°C)

# FC766 Foodcare K-Type Thermocouple Probes for Specific Applications

FC766F

Foodcare Wire Probes for Hard to Reach Places

2 mm
0.08"

Specifications

1 m
3.3'

Code / Cable Length	Range	Response time (90% of final value)	Probe Dimensions	Sensor	Cable Type	Connector Type
FC766F/1 / 1 m (3.3')	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/straight	K-Type
FC766F/3 / 3 m (9.9')	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/straight	K-Type
FC766F/5 / 5 m (16.4')	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/straight	K-Type
FC766F/10 / 10 m (33')	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/straight	K-Type
FC766F/20 / 20 m (66')	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/straight	K-Type

FC766Y

Foodcare Wire Probes for Ovens and Furnaces
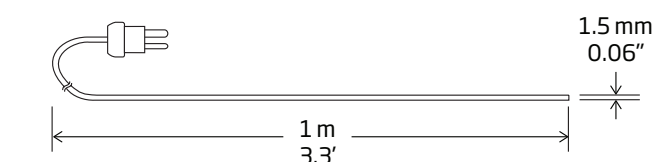
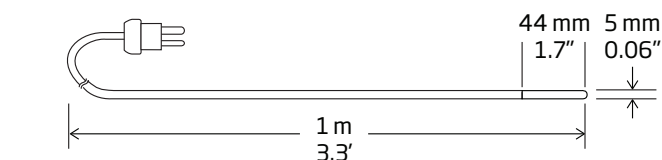1.5 mm
0.06"

1 m
3.3'

Specifications

Code / Cable Length	Range	Response time (98% of final value)	Probe Dimensions	Probe Material	Cable Type	Connector Type
FC766Y/1 / 1 m (3.3')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type
FC766Y/2 / 2 m (6.6')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type
FC766Y/3 / 3 m (9.9')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type
FC766Y/5 / 5 m (16.4')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type
FC766Y/8 / 8 m (26')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type
FC766Y/10 / 10 m (33')	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/straight	K-Type

FC766W1

Foodcare Wire Probes with Insulated Cable

44 mm
1.7" 5 mm 0.06"

1 m
3.3'

Specifications

Code / Cable Length	Range	Response time (98% of final value)	Probe Dimensions	Probe Material	Cable Type	Cable Color	Connector Type
FC766W1/1 / 1 m (3.3')	-40 to 120°C	2min 30 sec	L 44 mm x dia 5mm (1.7" x 0.2")	stainless steel	Polyurethane (PUR)/straight	white	K-Type
FC766W1/3 / 3 m (9.9')	-40 to 120°C	2min 30 sec	L 44 mm x dia 5mm (1.7" x 0.2")	stainless steel	Polyurethane (PUR)/straight	white	K-Type
FC766W1/5 / 5 m (16.4')	-40 to 120°C	2min 30 sec	L 44 mm x dia 5mm (1.7" x 0.2")	stainless steel	Polyurethane (PUR)/straight	white	K-Type
FC766W1/10 / 10 m (33')	-40 to 120°C	2min 30 sec	L 44 mm x dia 5mm (1.7" x 0.2")	stainless steel	Polyurethane (PUR)/straight	white	K-Type

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FC766

FC766 Foodcare K-Type Thermocouple Probes for Specific Applications

FC766T

Foodcare Wire Probes for Hard to Reach Places
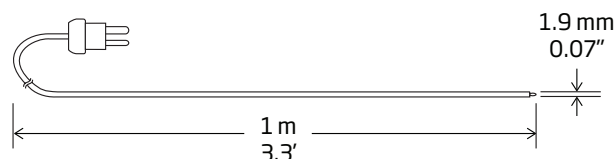
1.9 mm
0.07"

1 m
3.3'

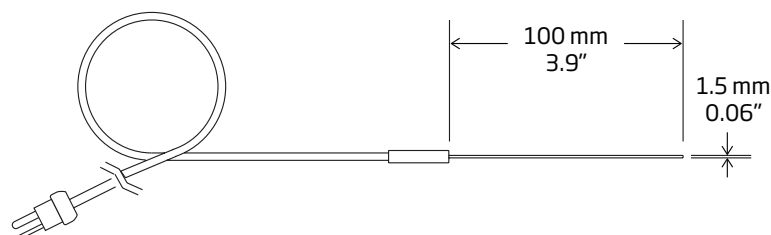### Specifications

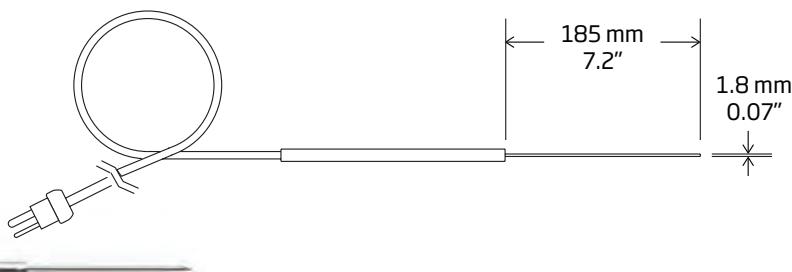| Code / Cable Length	Range	Response time (90% of final value)	Probe Dimensions	Sensor	Cable Type	Connector Type
FC766T/1 / 1 m (3.3')	-40 to 250°C (-40 to 482°F)	–	dia 1.9 mm (0.07")	exposed wire	PTFE insulated/straight	K-Type
FC766T/3 / 3 m (9.9')	-40 to 250°C (-40 to 482°F)	–	dia 1.9 mm (0.07")	exposed wire	PTFE insulated/straight	K-Type
FC766T/5 / 5 m (16.4')	-40 to 250°C (-40 to 482°F)	–	dia 1.9 mm (0.07")	exposed wire	PTFE insulated/straight	K-Type
FC766T/7 / 7 m (23')	-40 to 250°C (-40 to 482°F)	–	dia 1.9 mm (0.07")	exposed wire	PTFE insulated/straight	K-Type
FC766T/10 / 10 m (33')	-40 to 250°C (-40 to 482°F)	–	dia 1.9 mm (0.07")	exposed wire	PTFE insulated/straight	K-Type

FC766TZ

Foodcare Wire Stainless Steel Probes for Sous Vide

100 mm
3.9"

1.5 mm
0.06"

Specifications

Code	Range	Probe Dimensions	Sensor	Cable Type	Cable Length	Connector Type
FC766TZ/30	-40 to 200°C	L 30 mm x dia 1 mm (1.18" x 0.04")	stainless steel	PTFE insulated/straight	1 m (3.3')	K-Type
FC766TZ/60	-40 to 200°C	L 60 mm x dia 1 mm (2.36" x 0.04")	stainless steel	PTFE insulated/straight	1 m (3.3')	K-Type
FC766TZ/120	-40 to 200°C	L 120 mm x dia 1 mm (4.7" x 0.04")	stainless steel	PTFE insulated/straight	1 m (3.3')	K-Type
FC766TZ-0	Spare tape for Sous Vides temperature probe (1 mt)					

FC766TZ2/1

Foodcare Wire Stainless Steel Penetration Probe

185 mm
7.2"

1.8 mm
0.07"

Specifications

Code	Range	Probe Dimensions	Sensor	Cable Type	Cable Length	Connector Type
FC766TZ2/1	-40 to 600°C	L 185 mm x dia 1.8 mm (7.2" x 0.07")	stainless steel	straight	1 m (3.3')	K-Type

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FC767C1

Foodcare Ultra-fast Probe

205 mm
8"

100 mm
3.9"

3 mm
0.12"

1.6 mm
0.06"

25 mm
0.9"

1 m (3.3') Cable
Mini Connector
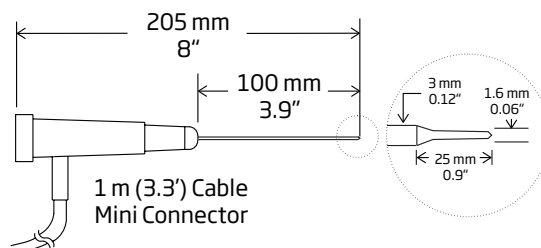
Specifications

Code	Max. Temperature	Accuracy	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
FC767C1			4 seconds	L 100 mm x dia 3 mm (3.9" x 0.12")	AISI 316 stainless steel	Polypropylene (PP)	white	Polyurethane (PUR)/coiled	white / 1 m (3.3')	T-Type

FC767PW

Foodcare Penetration Probe

225 mm
8.9"

120 mm
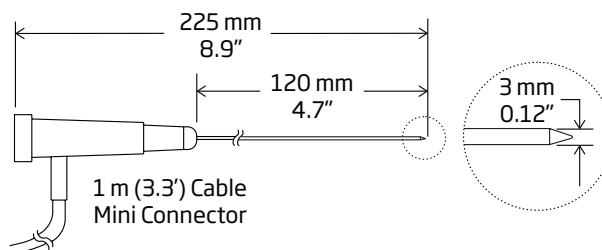4.7"

3 mm
0.12"

1 m (3.3') Cable
Mini Connector

Specifications

Code	Range	Accuracy	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
FC767PW	300°C (570°F)	±0.6°C (-50 to 100.0°C), ±1.6°C (100.0 to 300°C) /±1.1°F (-58 to 212 °F); ±2.9°F (212 to 573 °F)	15 seconds	L 120 mm x dia 3 mm (4.7" x 0.12")	stainless steel	Polypropylene (PP)	white	Polyurethane (PUR)/coiled	white / 1 m (3.3')	T-Type

foodcare thermocouple probes

FC767 Foodcare T-Type Thermocouple Probes

FC767TS Series
## Foodcare Penetration Probe for Semi-Solid Samples

Specifications

Code	Range	Response time (90% of final value)	Probe Dimensions	Probe Material	Probe Handle	Probe Handle Color	Cable Type	Cable Color/ Length	Connector Type
HI767TS2	-40 to 250°C (-40 to 482°F)	12 seconds	L 200 mm x dia 6 mm (.66' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	T-Type
HI767TS5	-40 to 250°C (-40 to 482°F)	12 seconds	L 500 mm x dia 6 mm (1.64' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	T-Type
HI767TS7	-40 to 250°C (-40 to 482°F)	12 seconds	L 700 mm x dia 6 mm (2.29' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	T-Type
HI767TS10	-40 to 250°C (-40 to 482°F)	12 seconds	L 1000 mm x dia 6 mm (3.28' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	T-Type
HI767TS14	-40 to 250°C (-40 to 482°F)	12 seconds	L 1400 mm x dia 6 mm (4.59' x 0.24")	stainless steel	stainless steel	silver	coiled cable with PVC insulation	white/ 1 m (3.3')	T-Type

FC767W1/1
Foodcare Wire Probe with Insulated Cable
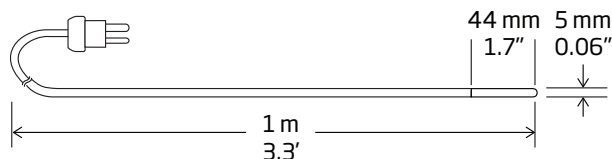
44 mm 1.7"   5 mm 0.06"   1 m 3.3'

Specifications

Code	Range	Response time (98% of final value)	Probe Dimensions	Probe Material	Cable Type	Cable Color / Length	Connector Type
FC767W1/1	-40 to 120°C	2min 10 sec	L 44 mm x dia 5mm (1.7" x 0.2")	stainless steel	Polyurethane (PUR)/straight	white/1 m (3.3')	T-Type

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FC767 Foodcare T-Type Thermocouple Probes

FC767Y/1

Foodcare Wire Probe for Ovens and Furnaces

Specifications

Code	Range	Response time (98% of final value)	Probe Dimensions	Probe Material	Cable Type	Cable Length	Connector Type
FC767Y/1	-40 to 1000°C (-40 to 1832°F)	15 seconds	L 1000 mm x dia 1.5 mm (39" x 0.06")	stainless steel	Stainless Steel/ straight	1 m (3.3')	T-Type

FC767F/1

Foodcare Wire Probe for Hard to Reach Places

Specifications

Code	Range	Response time (90% of final value)	Probe Dimensions	Sensor	Cable Type	Cable Length	Connector Type
FC767F/1	-40 to 400°C (-40 to 752°F)	14 seconds	dia 2 mm (0.08")	exposed wire	Fiberglass insulated/ straight	1 m (3.3')	T-Type

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