

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 $\pm 0.2\%$ 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	$\pm 0.2\%$ 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



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
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

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

HI93531 · HI93531N · HI93531R

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 and HI93531R feature 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 HI93531R adds RS232 output that allows for data transfer to a PC or printer.

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	HI93531R
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 -250.0°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	yes
Backlit LCD	N/A	yes	yes
RS232	N/A	N/A	yes
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) Auto-off after 8-60 minutes (HI93532R)		
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, HI93531N and, HI93531R 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	

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



HI93532 · HI93532R

Dual-input, K-Type Thermocouple Thermometers

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

Conditions often require the measurement of two samples at the same time. The HI93532 series feature two built-in channels for two K-type probe connectors.

These thermometers display current temperature along with the high and low values in either channel. You can also see the difference between the two channels simultaneously with the high and low of the difference.

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

The HI93532R feature a user-activated backlight for low or no light conditions. The CAL button allows the operator to perform a simple one-point calibration in an ice bath at 0°C when probe interchange occurs.

The HI93532R adds RS232 output that allows for data transfer to a PC or printer.

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	HI93532	HI93532R
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	yes
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); auto-off after 8 minutes (HI93532R)	
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	HI93532 and HI93532R 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

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

HI93530 · HI93530N

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
- **Waterproof**
 - Waterproof casing
- **Backlight**
 - Backlit display (N version)

The HI93530 and HI93530N are waterproof thermometers that can read with a resolution of 0.1 in the -149.9 to 999.9°C (-24.9 to 999.9°F) range.

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.

For high accuracy, the HI93530N features a CAL button to allow the operator a simple one-point calibration in an ice bath at 0°C when probe interchange occurs.

The HI93530N also incorporates a user-activated backlight for low or no light conditions.

Remaining battery power is displayed at startup, and these instruments are equipped with BEPS (Battery Error Prevention System), which alerts the user in the event that low battery power could adversely affect readings.

Several interchangeable probes are available to meet your specific needs. Optional rubber boots are also available.



Specifications	HI93530	HI93530N
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 -250.0°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 K-type thermocouple (not included)*	
CAL Button	N/A	yes
Backlit LCD	N/A	yes
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	HI93530 and HI93530N 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



HI93551 · HI93551N

K, J, T-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
- **Waterproof**
 - Waterproof casing

These instruments offer the ability to take temperature measurements with different types of thermocouples and are equipped with a single button that switches between K-type, J-type or T-type thermocouples.

The HOLD button freezes the display to allow the user time to record readings. The CLR button restarts the evaluation of high and low values.

These thermometers display the current temperature along with the high and low extremes achieved during measurement.

For high accuracy, the HI93551N features a CAL button to allow the operator 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	HI93551	HI93551N
Range	K	-200.0 to 999.9°C and 1000 to 1371°C; -328.0 to 999.9°F and 1000 to 2500°F
	J	-200.0 to 999.9°C; -328.0 to 999.9°F and 1000 to 1832°F
	T	-200.0 to 400.0°C; -328.0 to 752.0°F
Resolution	K	0.1°C (-149.9 to 999.9°C); 0.2°C (-200.0 to -150.0°C); 1°C (1000 to 1371°C); 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 (1000 to 2500°F)
	J	0.1°C (-200.0 to 999.9°C); 0.1°F (-149.9 to 999.9°F); 0.2°F (-328.0 to -150.0°F); 1°F (1000 to 1832°F)
	T	0.1°C (-149.9 to 400.0°C); 0.2°C (-200.0 to -150.0°C); 0.1°F (0.0 to 752.0°F); 0.2°F (-270.0 to -0.1°F); 0.3°F (-328.0 to -270.1°F)
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
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); auto-off after 8 minutes (HI93551R)	
Environment	-10 to 60°C (14 to 122°F); RH max 100%	
Dimensions / Weight	150 x 80 x 36 mm (5.9 x 3.1 x 1.4") / 235 g (8.3 oz.)	
Ordering Information	HI93551 and HI93551N are supplied with batteries, instructions and protective case.	
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

HI93542 · HI93552R

Dual-channel, K, J, T-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
- **Waterproof**
 - Waterproof casing
- **Backlight**
 - Backlit display (HI93552R)
- **Connectivity**
 - PC and printer compatible (HI93552R)

The HI93542 and HI93552R are dual-channel waterproof K, J, and T-type thermocouple thermometers that can switch between thermocouple types at the touch of a button.

At any time, users can switch views to see all information on either channel, display current temperature or average along with the high and low values. Users can also see the difference between the two channels simultaneously, along with the high and low of the difference.

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 CLEAR button restarts the evaluation of high and low values.

For high accuracy, the HI93552R features a CAL button to allow the operator a simple one-point calibration in an ice bath at 0°C when probe interchange occurs.

The HI93552R also adds an RS232 output that allows for data transfer to a PC or printer.

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		HI93542	HI93552R
Range	K	-200.0 to 999.9°C and 1000 to 1371°C; -328.0 to 999.9°F and 1000 to 2500°F	
	J	-200.0 to 999.9°C; -328.0 to 999.9°F and 1000 to 1832°F	
	T	-200.0 to 400.0°C; -328.0 to 752.0°F	
Resolution	K	0.1°C (-149.9 to 999.9°C); 0.2°C (-200.0 to -150.0°C); 1°C (1000 to 1371°C); 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 (1000 to 2500°F)	
	J	0.1°C (-200.0 to 999.9°C); 0.1°F (-149.9 to 999.9°F); 0.2°F (-328.0 to -150.0°F); 1°F (1000 to 1832°F)	
	T	0.1°C (-149.9 to 400.0°C); 0.2°C (-200.0 to -150.0°C); 0.1°F (0.0 to 752.0°F); 0.2°F (-270.0 to -0.1°F); 0.3°F (-328.0 to -270.1°F)	
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	yes
Battery Type / Life		1.5V AA (3) / approximately 500 hours of continuous use (with backlight off); auto-off: after 60 minutes of non-use (HI93542); selectable after 8 or 60 minutes of non-use (HI93552) (can be disabled for all models)	
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		HI93542 and HI93552R are supplied with batteries, instructions and protective case.	
Probes	HI766C	Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable	
	HI766E1	General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable	