



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.)	
<b>Ordering Information</b>	<b>HI93542</b> and <b>HI93552R</b> are supplied with batteries, instructions and protective case.	
<b>Probes</b>	<b>HI766C</b>	Penetration, stainless steel K-type thermocouple temperature probe with 1 m cable
	<b>HI766E1</b>	General purpose/penetration, stainless steel K-type thermocouple temperature probe with 1 m (3.3') cable