



Dual-Channel, Waterproof K, J, T-Thermocouple Thermometers



It is often necessary to take temperature measurements with different types of thermocouples. To make this possible in a single meter, HANNA instruments® developed HI 93542 and HI 93552 dual-channel, waterproof K, J and T-thermocouple thermometers. These professional grade instruments will switch between thermocouple types and linearize the readings taken with each.

These thermometers offer a resolution of 0.1° from -149.9 to 999.9°C and from -24.9 to 999.9°F with a HOLD button to freeze the display for easy recording. At any time, you can switch views to see all continuously updating information on either channel. Current temperature can be shown along with the high, low or average values. The current or average difference between channels is displayed with the temperature at both probes or the high/low of the difference. Finally, you can set a relative temperature at each channel and then see the variance from that reference point.

The HI 93552 allows auto-calibration at 0°C in a simple ice bath. HI 93552 can also store a reading, has selectable auto off and a backlight for low light conditions. All features are easily performed with single handed operation.

In addition, the HI 93552R model allows users to send the displayed measurement to a PC or printer through RS232 serial port (once every 2 seconds).

Specifications

		HI 93542 / HI 93552 / HI 93552R		
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	K-thermocouple type, HI 766 series (not included)	
		PC Connection	RS232 serial port (HI 93552R only)	
Battery Type / Life	3 x 1.5V AA / approx. 500 approx. 500 hours of continuous use (with backlight off); auto-off: after 60 minutes of non-use (HI 93542); selectable after 8 or 60 minutes of non-use (HI 93552) (can be disabled for all models)			
Environment	-10 to 50°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.)			

Accessories

HI 766C	Penetration K-type temperature probe with 1 m cable	HI 710007	Shockproof rubber boot, blue
HI 766D	Air K-type temperature probe with 1 m cable	HI 710008	Shockproof rubber boot, orange
HI 766E1	General purpose K-type temperature probe with 1 m cable	HI 710018	Spare protective case
		HI 92000	Windows® compatible software
		HI 920011	Serial cable for PC connection

Ordering Information

HI 93542 is supplied complete with batteries, protective case and instructions.
 HI 93552 is supplied complete with batteries, protective case and instructions.
 HI 93552R is supplied complete with batteries, protective case and instructions.

For a complete range of temperature probes, see section P. For accessories, see section U.