

Waterproof K-Type Thermocouple Thermometers with Min/Max and 0.1° Resolution



It is often necessary to be aware of the highest and lowest temperatures measured during a certain process. For this reason, HANNA instruments® has incorporated a dual-level LCD into these portable instruments. Along with the current reading, the highest and lowest temperature in the series can be assessed at a glance.

These thermometers can read with a resolution of 0.1 in the range of -149.9 to 999.9°C or -24.9 to 999.9°F. The meters are equipped with a HOLD function that freezes the current reading on the display. A °C/°F button will change between Celsius and Fahrenheit modes. Battery level is shown at startup and low battery warning with Battery Error Prevention System (BEPS) assure long periods of trouble-free use between battery changes.

HI 93531N also features a backlit LCD and can be calibrated at one point with a simple ice bath by pressing the CAL button.

HI 93531R is the top of the range model, featuring RS232 output for transferring measurements (once every second) to devices provided with RS232 input (PC or printer).

HANNA instruments® manufactures several thermocouple probes for different applications (HI 766 series).



Specifications

	HI 93531 / HI 93531N / HI 93531R
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	K-thermocouple type, HI 766 series (not included)
PC Connection	RS232 serial port (HI 93531R only)
Battery Type / Life	3 x 1.5V AA / approx. 500 hours of continuous use (with backlight off); auto-off after 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.)

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 93531 is supplied complete with batteries, protective case and instructions.

HI 93531N is supplied complete with batteries, protective case and instructions.

HI 93531R is supplied complete with batteries, protective case and instructions.

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