

## Electronic Thermometers for Education



Temperature measurements in the low ranges (-40 to 150°C or -58 to 338°F) are usually performed with thermometers that use the physical expansion of liquids such as in glass and dial thermometers. In terms of accuracy, these thermometers usually read within  $\pm 1$  to  $\pm 5^\circ\text{C}$  ( $\pm 2$  to  $\pm 9^\circ\text{F}$ ) of the actual temperature. In order to achieve higher accuracy, the range must be reduced or the length of the thermometer must be increased.

The HI 8751, HI 8752 and HI 8753 electronic thermistor thermometers resolve these problems.

These thermometers use a miniature silicon sensor and are precalibrated at the factory to measure a wide temperature range without the need to change probes. This type of sensor is highly accurate with a very fast response time. The sensor is housed in a rugged, stainless steel probe. This probe can be replaced without requiring recalibration.

A wide variety of interchangeable temperature probes (HI 765 series) for measurements in liquids, air and semi-solids are available.

### Specifications

	HI 8751	HI 8752	HI 8753
Range	-40.0 to 150.0°C	-58 to 338°F	-40.0 to 150.0°C; -58 to 338°F
Resolution	0.1°C	1°F	0.1°C; 1°F
Accuracy	$\pm 0.5\%$ F.S. (for 1 year, excluding probe error)		
Probe	HI 765PW	HI 765BL	HI 765BL
	precalibrated, stainless steel, with 1 m (3.3') cable (included)		
Battery Type / Life	1 x 9V / approx. 300 hours of continuous use		
Environment	0 to 50°C (32 to 122°F); RH max 95%		
Dimensions	180 x 83 x 40 mm (7.1 x 3.3 x 1.6")		
Weight	265 g (9.3 oz.)		

### Accessories

HI 765BL	General purpose/liquid temperature probe with 1 m cable	HI 765070C	Test key at 70.0°C
HI 765L/10	General purpose/liquid temperature probe with 10 m cable	HI 710009	Shockproof rubber boot, blue
HI 765PW	Penetration temperature probe with 1 m cable	HI 710010	Shockproof rubber boot, orange
HI 765-18C	Test key at -18.0°C	HI 710002	Soft carrying case
HI 765000C	Test key at 0.0°C	HI 721316	Rugged carrying case

### Ordering Information

HI 8751 is supplied complete with HI 765PW temperature probe with 1 m (3.3') cable, battery and instructions.

HI 8752 is supplied complete with HI 765BL temperature probe with 1 m (3.3') cable, battery and instructions.

HI 8753 is supplied complete with HI 765BL temperature probe with 1 m (3.3') cable, battery and instructions.

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