



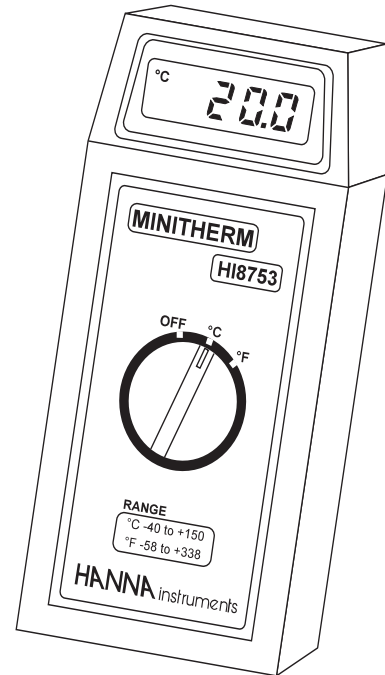
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## Instruction Manual

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# HI 8751 • HI 8752 HI 8753

## Electronic Thermometers for Education



Dear Customer,  
 Thank you for choosing a HANNA instruments® product.  
 Please read this instruction manual carefully before using the instrument.  
 The manual will provide you with the necessary information for a correct use.  
 If you need additional technical support, do not hesitate to e-mail us at [tech@hannainst.com](mailto:tech@hannainst.com)  
 These instruments are in compliance with the CE directives.

## WARRANTY

All Hanna Instruments meters are warranted for two years against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. Probes are warranted for 6 months. This warranty is limited to repair or replacement free of charge. Damages due to accidents, misuse, tampering or lack of prescribed maintenance are not covered. If service is required, contact the dealer from whom you purchased the instrument. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization Number from the Customer Service department and then send it with shipment costs prepaid. When shipping any instrument, make sure it is properly packaged for complete protection.

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## PRELIMINARY EXAMINATION

Remove the instrument from the packing material and examine it carefully to make sure that no damage has occurred during shipment. If noticeable damage is found, immediately notify your dealer.

Each meter is supplied complete with:

- Temperature probe with 1 m (3.3') cable:
  - HI 765PW for HI 8751
  - HI 765BL for HI 8752 and HI 8753
- 9V battery
- Instruction manual

**Note:** Save all packing material until you are sure that the instrument functions correctly. Any defective item must be returned in the original packing with the supplied accessories.

## GENERAL DESCRIPTION

The HI 8751, HI 8752 and HI 8753 electronic thermistor thermometers can measure temperature in the low ranges (-40 to 150°C or -58 to 338°F) with high accuracy.

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.

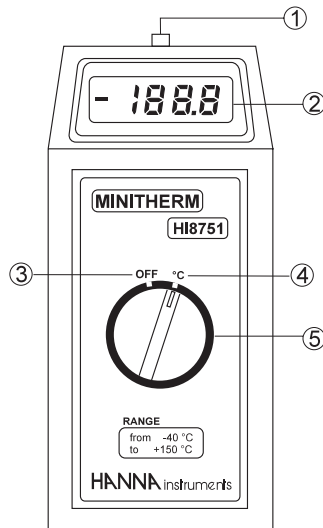
This type of sensor is highly accurate with a very fast response time.

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 semisolids are available.

Hanna Instruments reserves the right to modify the design, construction and appearance of its products without advance notice.

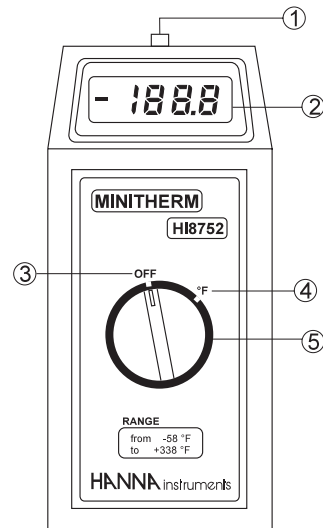
## FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8751



- 1) Probe connector
- 2) Liquid Crystal Display
- 3) OFF mode
- 4) Measurement mode, °C scale
- 5) Rotary switch

Range	-40.0 to 150.0°C
Resolution	0.1°C
Accuracy	±0.5% F.S. for one year, excluding probe error
Typical EMC Deviation	±1°C with HI 765PW probe
Probe	HI 765PW stainless steel, 1 m (3.3') cable (included)
Battery Type / Life	1 x 9V (IEC 6LR61) / approx. 300 hours of continuous use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	180 x 83 x 40 mm (7.1x3.3x1.6")
Weight	265 g (9.3 oz.)

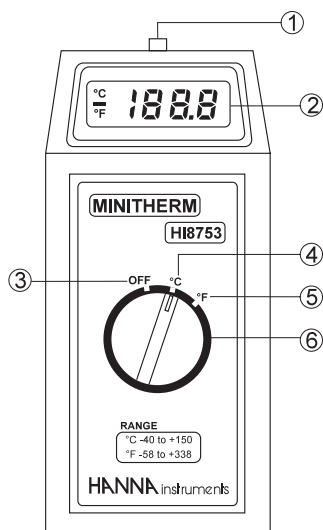
## FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8752



- 1) Probe connector
- 2) Liquid Crystal Display
- 3) OFF mode
- 4) Measurement mode, °F scale
- 5) Rotary switch

Range	-58 to 338°F
Resolution	1°F
Accuracy	±0.5% F.S. for one year, excluding probe error
Typical EMC Deviation	±2°F with HI 765BL probe
Probe	HI 765BL stainless steel, 1 m (3.3') cable (included)
Battery Type / Life	1 x 9V (IEC 6LR61) / approx. 300 hours of continuous use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	180 x 83 x 40 mm (7.1x3.3x1.6")
Weight	265 g (9.3 oz.)

## FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8753



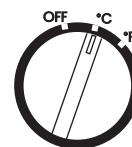
- 1) Probe connector
- 2) Liquid Crystal Display
- 3) OFF mode
- 4) Measurement mode, °C scale
- 5) Measurement mode, °F scale
- 6) Rotary switch

<b>Range</b>	-40.0 to 150.0°C / -58 to 338°F
<b>Resolution</b>	0.1°C / 1°F
<b>Accuracy</b>	±0.5% F.S. for one year, excluding probe error
<b>Typical EMC Deviation</b>	±3°C / ±6°F with HI 765BL probe
<b>Probe</b>	HI 765BL stainless steel, 1 m (3.3') cable (included)
<b>Battery Type / Life</b>	1 x 9V (IEC 6LR61) / approx. 300 hours of continuous use
<b>Environment</b>	0 to 50°C (32 to 122°F); RH max 95% non-condensing
<b>Dimensions</b>	180 x 83 x 40 mm (7.1x3.3x1.6")
<b>Weight</b>	265 g (9.3 oz.)

## OPERATIONAL GUIDE

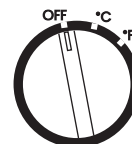
Each meter is supplied complete with a 9V battery. Remove the battery cover from the back of the thermometer, insert the battery and reattach the cover. Connect the temperature probe to the probe socket on the top of the meter.

To switch the instrument on, turn the rotary switch to °C or °F position (depending on model).



If a temperature probe is plugged in, the unit will display the measured temperature.

After use, switch the thermometer off by turning the rotary switch to OFF.



## CALIBRATION

All HANNA instruments® thermometers have been accurately pre-calibrated at the factory. It is generally recommended to have all thermometers recalibrated at least once a year. For an accurate annual recalibration, contact the nearest HANNA Customer Service Center.

For a quick and easy check of the meter accuracy, HANNA instruments® offers a series of **CALIBRATION TEST KEYS** to be connected to the probe socket on the thermometer.



If the reading differs more than ±0.4°C (±0.8°F) from the test key value, the unit is due for recalibration.

Choose the test key that better fits your application needs:

HI 765-18C	Calibration test key at	-18.0°C
HI 765000C	Calibration test key at	0.0°C
HI 765070C	Calibration test key at	70.0°C
HI 765-004F	Calibration test key at	-0.4°F
HI 765032F	Calibration test key at	32.0°F
HI 765158F	Calibration test key at	158.0°F

## BATTERY REPLACEMENT

These instruments are powered by a 9V battery.

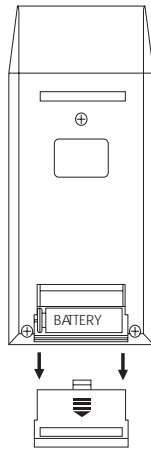
When the battery level is too low to ensure reliable readings, the Battery Error Prevention System (BEPS) automatically shuts down the LCD.

For a correct functioning of the instrument, replace the battery.

To access the battery, remove the battery cover on the rear of the meter by applying pressure in the indicated direction.

Replace the battery with a new one and reattach the cover.

Battery replacement must only take place in a safe area and using a 9V alkaline battery.



## TEMPERATURE PROBES & ACCESSORIES

HANNA instruments® offers a wide range of temperature probes for measurements in air, surface, liquid and for penetration applications.

These probes use highly sensitive thermistor sensors to provide greater accuracy, faster response and a temperature range that is superior to conventional thermistor probes.

HI 765 series of temperature probes are supplied pre-calibrated at the factory and ready to use, making it possible to switch from one to another without needing time-consuming and tedious calibration procedures.

Different handle colors are available to avoid cross contamination during testing.

- HI 765A Air/gas probe with 1 m (3.3') cable and white handle
- HI 765A/10 Air/gas probe with 10 m (33') cable and white handle
- HI 765BL General purpose/liquid probe, 1 m (3.3') cable & black handle
- HI 765BL/10 General purpose/liquid probe, 10 m (33') cable & black handle
- HI 765L General purpose/liquid probe, 1 m (3.3') cable & white handle
- HI 765L/10 General purpose/liquid probe, 10 m (33') cable & white handle
- HI 765PBL Penetration probe with 1 m (3.3') cable and blue handle
- HI 765PBL/10 Penetration probe with 10 m (33') cable and blue handle
- HI 765PG Penetration probe with 1 m (3.3') cable and green handle
- HI 765PG/10 Penetration probe with 10 m (33') cable and green handle
- HI 765PR Penetration probe with 1 m (3.3') cable and red handle
- HI 765PR/10 Penetration probe with 10 m (33') cable and red handle
- HI 765PW Penetration probe with 1 m (3.3') cable and white handle
- HI 765PW/10 Penetration probe with 10 m (33') cable and white handle
- HI 765W Wire probe without handle for hard-to-reach places, 1 m (3.3') cable
- HI 765W/10 Wire probe without handle for hard-to-reach places, 10 m (33') cable

### OTHER ACCESSORIES

- HI 710002 Soft carrying case
- HI 710009 Shockproof rubber boot, blue
- HI 710010 Shockproof rubber boot, orange
- HI 721316 Rugged carrying case

## CE DECLARATION OF CONFORMITY



### DECLARATION OF CONFORMITY

We

Hanna Instruments Italia Srl  
via E.Fermi, 10  
35030 Sarmeola di Rubano - PD  
ITALY

herewith certify that the thermometers

**HI 8751 HI 8752 HI 8753**

have been tested and found to be in compliance with EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC according to the following applicable normatives:

**EN 50082-1:** Electromagnetic Compatibility - Generic Immunity Standard  
**IEC 801-2** Electrostatic Discharge  
**IEC 801-3** RF Radiated

**EN 50081-1:** Electromagnetic Compatibility - Generic Emission Standard  
**EN 55022** Radiated, Class B

**EN61010-1:** Safety requirements for electrical equipment for measurement, control and laboratory use

Date of Issue: 26-11-1998

P. Cesa - Technical Director  
On behalf of  
Hanna Instruments S.r.l.

### Recommendations for Users

Before using these products, make sure that they are entirely suitable for the environment in which they are used.

Operation of these instruments in residential areas could cause unacceptable interference to radio and TV equipment.

Any variation introduced by the user to the supplied equipment may degrade the instruments' EMC performance.

To avoid electrical shock, do not use these instruments when voltage at the measurement surface exceeds 24 Vac or 60 Vdc.

To avoid damages or burns, do not perform any measurement in microwave ovens.