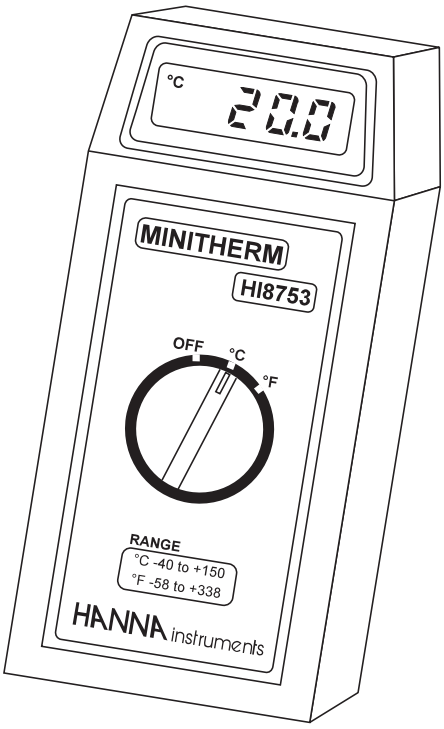
Instruction Manual

HI 8751 HI 8752
HI 8753
Portable Thermistor Thermometers



HANNA instruments

http://www.hannacan.com

These Instruments are in Compliance with the CE Directives

Dear Customer,

Thank you for choosing a Hanna Product. Please read this instruction manual carefully before using the instrument.

The manual will provide you with the necessary information for a correct use of the instrument, as well as a more precise idea of its versatility. These instruments are in compliance with the CE directives EN 50081-1 and EN 50082-1.

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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, notify your Dealer.

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.

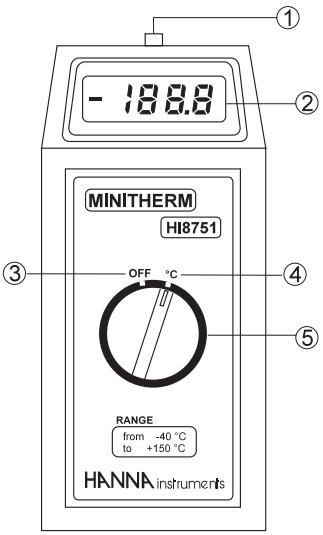
GENERAL DESCRIPTION

The Minitherm HI 8751, HI 8752 and HI 8753 are accurate, general purpose, thermistor thermometers designed for simplicity of use. The large LCD provides clear, easy-to-read digits that can be read at any angle. A rotary knob on the front panel switches the instrument from the OFF position to the desired measurement range.

HI 8751 measures temperature in Centigrade whereas HI 8752 reads temperature in Fahrenheit and HI 8753 has both ranges available for measurement.

Each meter comes supplied with the precalibrated and interchangeable HI 765BL temperature probe, a 9V battery and an instruction manual.

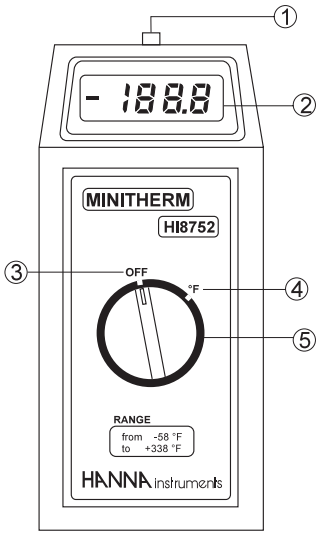
FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8751



1) Probe connector
2) LCD display
3) OFF mode
4) °C scale
5) Rotary switch

SPECIFICATIONS	HI 8751
Range	–40.0 to 150.0°C
Resolution	0.1°C
Accuracy (@20°C/68°F)	±0.5% F.S., for one year, excluding probe error
EMC Typical Deviation	±1°C, with HI 765BL probe
Display	3½ digit LCD
Battery	9V battery providing 300 hours of continuous operation
Probe (included)	HI 765BL precalibrated and interchangeable stainless steel probe with 1 m (3.3') cable
Environment	0 to 50°C (32 to 122°F); max 95% RH non-condensing
Dimensions	180 x 83 x 40 mm (7.1x3.3x1.6")
Weight	280 g (10 oz.) with probe

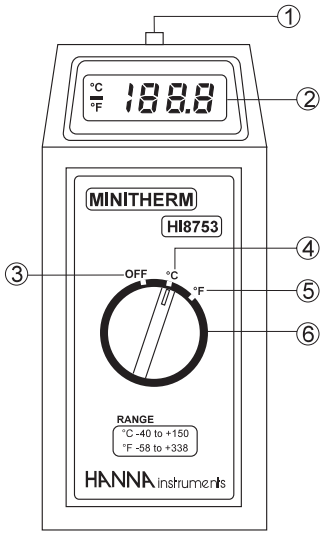
FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8752



1) Probe connector
2) LCD display
3) OFF mode
4) °F scale
5) Rotary switch

SPECIFICATIONS	HI 8752
Range	–58 to 338°F
Resolution	1°F
Accuracy (@20°C/68°F)	±0.5% F.S., for one year, excluding probe error
EMC Typical Deviation	±2°F, with HI 765BL probe
Display	3½ digit LCD
Battery	9V battery providing 300 hours of continuous operation
Probe (included)	HI 765BL precalibrated and interchangeable stainless steel probe with 1 m (3.3') cable
Environment	0 to 50°C (32 to 122°F); max 95% RH non-condensing
Dimensions	180 x 83 x 40 mm (7.1x3.3x1.6")
Weight	280 g (10 oz.) with probe

FUNCTIONAL DESCRIPTION & SPECIFICATIONS OF HI 8753



1) Probe connector
2) LCD display
3) OFF mode
4) °C scale
5) °F scale
6) Rotary switch

SPECIFICATIONS	HI 8753
Range	–40.0 to 150.0°C / –58 to 338°F
Resolution	0.1°C / 1°F
Accuracy (@20°C/68°F)	±0.5% F.S., for one year, excluding probe error
EMC Typical Deviation	±3°C / ±6°F, with HI 765BL probe
Display	3½ digit LCD with symbols
Battery	9V battery providing 300 hours of continuous operation
Probe (included)	HI 765BL precalibrated and interchangeable stainless steel probe with 1 m (3.3') cable
Environment	0 to 50°C (32 to 122°F); max 95% RH non-condensing
Dimensions	180 x 83 x 40 mm (7.1x3.3x1.6")
Weight	280 g (10 oz.) with probe

OPERATIONAL GUIDE

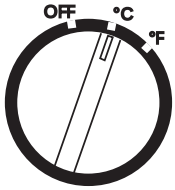
INITIAL PREPARATION

Remove the battery cover from the back of your thermometer.

Unwrap the battery and connect it to the clips. Insert the battery and replace the cover.

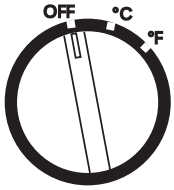
Connect the temperature probe to the probe socket on the top of the meter.

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



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

After use, switch your 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 your nearest Hanna Customer Service Center.

Hanna Test Plugs provide a quick and easy way to test the accuracy of the meter by simply connecting these Test Plugs to the probe connector on the instrument.

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

Choose the right Test Plug to best suit your needs:

HI 765-18C	Calibration key,	–18.0°C	±0.4°C
HI 765000C	Calibration key,	0.0°C	±0.4°C
HI 765070C	Calibration key,	+70.0°C	±0.4°C
HI 765-004F	Calibration key,	–0.4°F	±0.8°F
HI 765032F	Calibration key,	+32.0°F	±0.8°F
HI 765158F	Calibration key,	+158.0°F	±0.8°F

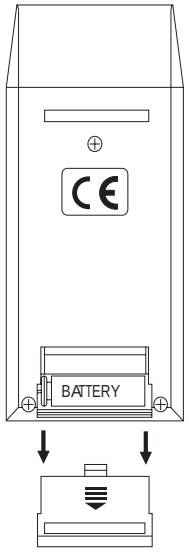
BATTERY REPLACEMENT

The instrument is powered by a 9V battery located at the back of the instrument.

When the battery is rundown, the Battery Error Preventive System (BEPS) circuitry is activated. BEPS shuts down the LCD automatically to ensure that no erroneous readings are taken due to a weak battery. In such cases, the battery needs to be replaced for the correct functioning of the instrument.

To access the battery, remove the battery cover by applying pressure in the direction indicated. Unplug the rundown battery and replace it with a new one. Re-insert the battery and replace the cover.

Battery replacement must only take place in a non-hazardous area using a 9V alkaline battery.



TEMPERATURE PROBES & ACCESSORIES

Hanna Instruments offers a wide range of probes to meet your needs to measure the temperature in air, surface, penetration and liquid applications. These probes use highly sensitive thermistor sensors which provide greater accuracy, faster response and a temperature range that is superior to conventional thermistor probes. HI765 series temperature probes are supplied pre-calibrated from the factory with ±0.4°C accuracy and are ready to use. The probes are easily connected to your meter with a standard connector. Completely interchangeable, these probes make it possible for you to switch from one to another without wasting time and money going through time-consuming and tedious calibration procedures. They are available in different handle colors to avoid cross contamination during testing:

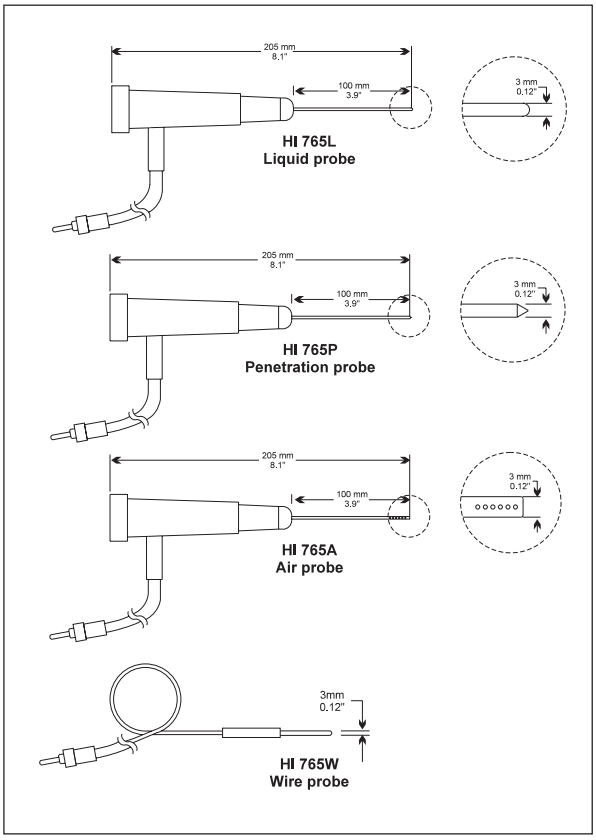
HI 765A	Air probe, with 1 m (3.3') cable and white handle
HI 765A/10	Air probe, with 10 m (33') cable and white handle
HI 765BL	General purpose liquid probe, with 1 m (3.3') cable and black handle
HI 765BL/10	General purpose liquid probe, with 10 m (33') cable and black handle
HI 765L	General purpose liquid probe, with 1 m (3.3') cable and white handle
HI 765L/10	General purpose liquid probe, with 10 m (33') cable and 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 (hard-to-reach places) with 1 m (3.3') cable

HI 765W/10 Wire probe, without handle (hard-to-reach places) with 10 m (33') cable

HANNA INSTRUMENTS TEMPERATURE PROBES



OTHER ACCESSORIES

HI 710002 Soft carrying case (formerly BORGM)

HI 710009 Blue rubber boot

HI 710010 Orange rubber boot

HI 710031 Hard carrying case (formerly PKGCASE)

HI 721310 9V Battery (10 pcs)

MANTHERR2 Instruction Manual

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.

The 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.

To validate your warranty, fill out and return the enclosed warranty card within 14 days from the date of purchase.

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

CE DECLARATION OF CONFORMITY

HANNA instruments

CE

DECLARATION OF CONFORMITY

We

Hanna Instruments Srl
V.le delle industrie 12
35010 Ronchi di Villafranca (PD)
ITALY

herewith certify that the thermometers

HI 8751 HI 8752 HI 8753

have been tested and found to be in compliance with the following regulations:

IEC 801-2	Electrostatic Discharge
IEC 801-3	RF Radiated
EN 55022	Radiated, Class B

Date of Issue: 23-11-1995

D.Volpato - Engineering Manager
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 24VAC or 60VDC.

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

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