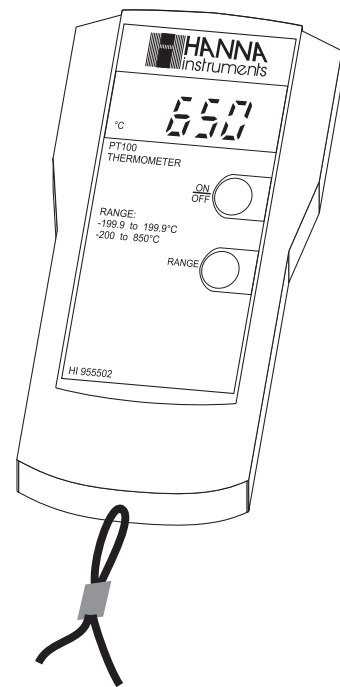


Instruction Manual

HI 955501 • HI 955502

**Portable
Pt100 Thermometers**



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

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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 evident, immediately notify your dealer.

HI 955501 is supplied complete with battery and instructions.

HI 955502 is supplied complete with fixed temperature probe (general purpose), battery and instructions.

Note: Save all packing material until you are sure that the instrument functions correctly. All defective items must be returned in their original packing.

GENERAL DESCRIPTION

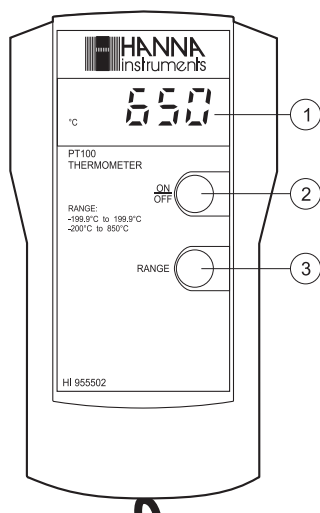
HI 955501 and **HI 955502** are accurate thermometers that perform highly stable, repeatable and linear temperature measurements using 4-wire Pt100 probes.

HI 955501 works with **HI 768** series of Pt100 temperature probes, while the **HI 955502** model is supplied with fixed general-purpose probe. Both models measure temperatures with 0.1°C resolution in the -199.9 to 199.9°C range and then automatically switch to 1°C from 200 to 850°C. Press RANGE and the resolution switches to 1°C at any time.

A compact, ergonomic design and a wrist-strap make it easy to carry them anywhere in the lab or plant.

The shockproof rubber boot is recommended to protect the meter during field measurements.

FUNCTIONAL DESCRIPTION AND SPECIFICATIONS



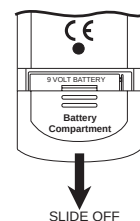
1. Liquid Crystal Display
2. ON/OFF Key
3. Range Key

	HI 955501	HI 955502
Range	-199.9 to 199.9°C / -200 to 850°C	
Resolution	0.1°C (±199.9°C) 1°C (-200 to 850°C)	
Accuracy	±0.2°C & ±1 digit (-120 to 199°C) ±1°C & ±1 digit (-170 to 450°C) ±1% F.S. & ±1 digit (outside) for one year, excluding probe error	
Typical EMC Deviation	±0.5°C	
Probe	Pt100, stainless steel, 1 m cable HI 768 series (not included)	fixed
Battery Type / Life	1 x 9V / approx. 150 hours of use	
Environment	0 to 50°C (32 to 122°F); RH max 95%	
Dimensions	143x80x38 mm (5.6x3.2x1.5")	
Weight	320 g (11.3 oz.)	

OPERATIONAL GUIDE

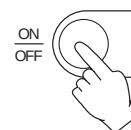
INITIAL PREPARATION

Each meter is supplied complete with a 9V battery. Slide off the battery cover on the rear of the thermometer, install the battery and reattach the cover.

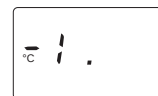


With **HI 955501**, connect a Pt100 temperature probe (**HI 768** series) to the instrument.

Switch the thermometer on by pressing the ON/OFF key. The temperature value will be displayed on the LCD.



If no temperature probe is plugged in (**HI 955501** only), the display will show "- 1 .".



To switch the meter off, press the ON/OFF key again.

MEASUREMENT RESOLUTION

When switched on, the instrument defaults to the last selected resolution.

To change the resolution, press RANGE.

The instrument automatically changes its resolution to 1 degree when it passes the limit of the lower range (±200°C).

LOW BATTERY DETECTION

When the battery becomes weak, the display shows the "V" symbol to advise the user. It is recommended to replace the battery soon.



DISPLAY CODE GUIDE

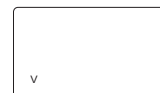
Display	Description
-1.	Reading out of range or temperature probe not connected (HI 955501)
V	Weak battery, needs to be replaced
°C	Measure unit (Centigrade scale)

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 Service Center.

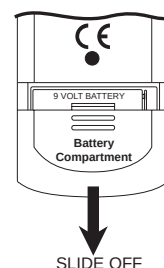
BATTERY REPLACEMENT

When the battery becomes weak, the "V" symbol is displayed to warn the user that the battery needs to be replaced soon.



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

Remove the battery compartment cover on the rear of the meter and replace the battery with a new one. Make sure the battery contacts are tight before reattaching the cover.

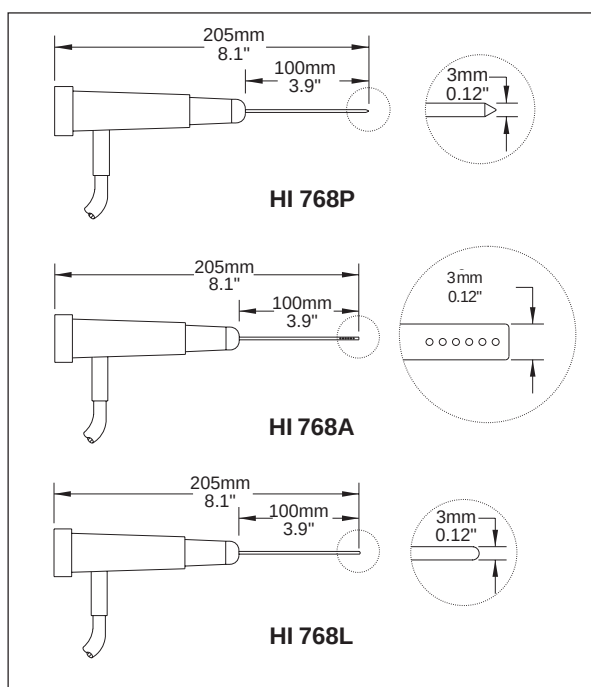


ACCESSORIES

HI 710004	Soft carrying case
HI 710007	Shockproof rubber boot, blue
HI 710008	Shockproof rubber boot, orange

4-wire Pt100 Probes (for HI 955501)

HI 768A	Air/gas probe, with 1 m (3.3') cable
HI 768L	General purpose/liquid probe, with 1 m (3.3') cable
HI 768P	Penetration probe with 1 m (3.3') cable



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 six months.

This warranty is limited to repair or replacement free of charge.

Damages due to accident, 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 the 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.

All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.

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

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 955501 and HI 955502

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: 13-11-1998


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 area could cause unacceptable interferences to radio and TV equipments, requiring the operator to take all necessary steps to correct interferences.

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

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

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

