

Instruction Manual

HI 9063

Portable Waterproof Microprocessor K-Type Thermocouple Thermometer



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. **Sensors and probes are warranted for a period of six 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.

First obtain a Returned Goods Authorization number from the Customer Service department, then return the instrument with the Authorization # included along with shipment costs prepaid. If the repair is not covered by the warranty, you will be notified of the charges.

When shipping any instrument, make sure it is properly packaged for complete protection.

Dear Customer,
Thank you for choosing a Hanna product.
This manual will provide you with the necessary information for correct operation. Please read it carefully before using the meter. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com.
This instrument is in compliance with the CE directives.

PRELIMINARY EXAMINATION

Remove the instrument from the packing material and examine it carefully to make sure that no damage has occurred during shipping. If there is any noticeable damage, notify your Dealer or the nearest Hanna Office.

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

GENERAL DESCRIPTION

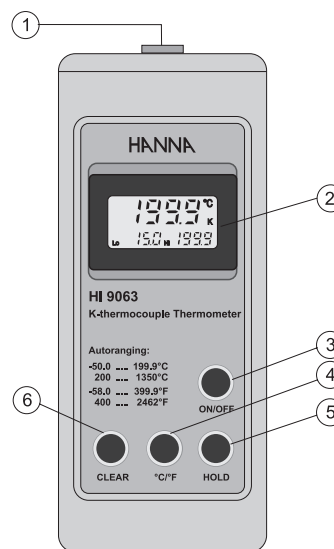
HI 9063 is a waterproof, microprocessor-based, K-type thermocouple thermometer, which provides very accurate measurements in a wide range of temperatures.

The meter is also provided with low battery detection and BEPS (Battery Error Preventing System), which turns the unit off when the batteries are discharged avoiding erroneous readings caused by low battery level.

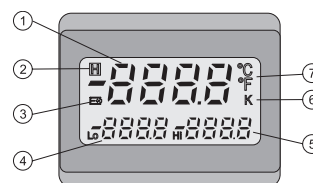
HI 9063 features include autoranging capability, dual-level LCD for simultaneously displaying of maximum and minimum measured temperatures, °C/°F selection button and hold function.

The meter is supplied complete with four 1.5V AA batteries and instruction manual.

FUNCTIONAL DESCRIPTION



1. Temperature probe connector
2. Liquid Crystal Display
3. ON/OFF key
4. Measuring unit selection key
5. HOLD key
6. HI/LO values reset key



1. Current temperature value
2. HOLD indicator
3. Low battery indicator
4. Minimum temperature value
5. Maximum temperature value
6. K-type probe indicator
7. Measuring unit, °C or °F

SPECIFICATIONS

Range (*)	-50.0 to 1350°C -58.0 to 2462°F
Resolution	0.1°C (up to 199.9°C) / 1°C (outside) 0.1°F (up to 399.9°F) / 1°F (outside)
Accuracy	±0.2% F.S. for 1 year, excluding probe error
Typical EMC Deviation	±3°C / ±6°F (with HI 766 probes)
Battery Type	4 x 1.5V AA (IEC LR6)
Life	approx. 2000 hours of continuous use
Probe	K-type thermocouple (see "Accessories")
Environment	-10 to 50°C (14 to 122°F); RH 100%
Dimensions	196 x 80 x 60 mm (7.7x3.1x2.4")
Weight	500 g (1.1 lb.)

(*) Range may be limited by probe.

FACTORY RECALIBRATION

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 Service Center.

OPERATIONAL GUIDE

INITIAL PREPARATION

Each meter is supplied complete with batteries.

Remove the back cover, unwrap the batteries and install them while paying attention to their polarity.

Connect a K-type thermocouple probe to the meter.

To switch on, press the ON/OFF key on the front of the meter.

If the meter does not come on, make sure that the batteries are correctly installed.

The thermometer will carry out a self diagnostic test routine, the LCD will show all segments for a few seconds (or as long as ON/OFF is held), followed by the percentage indication of the remaining battery life.

The thermometer then enters normal measurement mode.

If a temperature probe is plugged in, the meter displays the measured temperature.

If no probe is plugged in, or if reading is over-range, the display shows flashing dashes.

If a measurement is slightly over the range of the meter specifications, the display flashes the closest full-scale value.

To switch the thermometer OFF, press the ON/OFF key.

MEASURING SCALE (°C/°F)

The instrument is factory set to the °C scale, but measurements can be performed in either the Celsius or Fahrenheit scale.

Press the °C/°F button to select the desired scale.

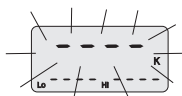
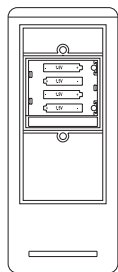
HOLD MODE

The HOLD function is activated by pressing the HOLD key.

The measured temperature is held on the display until HOLD is pressed again.

The "H" tag blinks on the display to indicate the HOLD mode.

Note: Although the display is frozen, internally the meter continues measuring and updating Hi and Lo values.



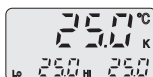
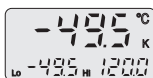
HIGH/LOW TEMPERATURES

The maximum and minimum temperatures are continuously monitored and displayed in the lower portion of the LCD.

Note: When reading goes over-range, the Hi and Lo values display dashes until cleared.

CLEAR FUNCTION

Upon pressing the CLEAR key, the current reading is assigned to the highest and lowest temperature values. The High/Low values may be cleared at any time during measurement.



BATTERY REPLACEMENT

The instrument is powered by four 1.5 V alkaline batteries and is provided with the Battery Error Prevention System (BEPS), which turns the unit off when a low battery signal is detected.

When the remaining battery level is less than 10%, a warning symbol blinks on the display to indicate a low battery condition.

It is recommended to replace the batteries as soon as the low battery condition is detected.

Battery replacement must only take place in a nonhazardous area using four 1.5V alkaline batteries.

In order to replace rundown batteries, simply remove the two screws on the rear cover of the instrument and replace the four batteries with new ones paying attention to the correct polarity.

Reattach the cover and tighten the two screws.



ACCESSORIES

K-TYPE THERMOCOUPLE PROBES

with integral handle, 1 m (3.3') cable & mini-connector:

HI 766A Roller surface probe, max 320°C/600°F
HI 766B Surface probe, max 650°C/1200°F
HI 766B1 90° Surface probe, max 450°C/840°F
HI 766B2 Spring-loaded, surface probe, max 900°C/1650°F

HI 766B3 Spring-loaded, small surface probe with insulated shaft, max 200°C/390°F

HI 766C Penetration probe, max 900°C/1650°F
HI 766C1 Ultra-fast Penetration probe, max 300°C/570°F

HI 766D Air probe, max 300°C/570°F
HI 766E1 General purpose probe, max 900°C/1650°F
HI 766E2 General purpose probe, max 900°C/1650°F
HI 766F High temperature, flexible wire probe without handle, max 1100°C/2000°F

HI 766F1 Flexible wire probe without handle, max 480°C/900°F

HI 766TR1 Penetration probe, max 250°C/482°F
HI 766TR2 Penetration long probe, max 250°C/482°F
HI 766TV1 Pipe clamp probe, max 200°C/390°F

with detachable handle & mini-connector (to be used in conjunction with the HI 766HD probe handle):

HI 766PA Roller surface probe, max 320°C/600°F
HI 766PB Surface probe, max 650°C/1200°F
HI 766PC Penetration probe, max 900°C/1650°F
HI 766PD Air probe, max 300°C/570°F
HI 766PE1 General purpose probe, max 900°C/1650°F
HI 766PE2 General purpose probe, max 900°C/1650°F

grill surface probe:

HI 766B4 Grill surface probe with 70 cm (27.6") cable (protected with stainless steel jacket), max 250°C/482°F

HI 766B4S Spare stainless steel sensor for HI766B4 probe

OTHER ACCESSORIES

HI 710021 Spare protective case
HI 721317 Rugged carrying case
HI 766EX Extension cable for K-type probes
HI 766HD Rugged thermocouple probe handle with 1m (3.3') cable fitted with mini-connector

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 K-type thermometer:

HI 9063

has 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 normative:

EN 50082-1: Electromagnetic Compatibility - Generic Immunity Standard
IEC 61000-4-2 Electrostatic Discharge
IEC 61000-4-3 RF Radiated

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

EN 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use

Date of Issue: 24/10/2002

A. Marsilio - Technical Director
On behalf of
Hanna Instruments S.r.l.

Recommendations for Users

Before using this product, make sure that it is entirely suitable for the environment in which it is used. Operation of this instrument in residential areas could cause unacceptable interference to radio and TV equipment, requiring the operator to take all necessary steps to correct interference.

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 damage or burns, do not perform any measurement in microwave ovens.