



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HANNA INSTRUMENTS HI 9565. You'll find the answers to all your questions on the HANNA INSTRUMENTS HI 9565 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Instruction Manual

HI 9564 - HI 9565

Portable Water-Resistant Thermo-Hygrometers



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 a period of six months.
This warranty is limited to repair or replacement free of charge.
Damage 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 problem. 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.

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Recommendations for Users
Before using these products, make sure that they are entirely suitable to the environment in which they are used. Operation of these instruments in accidental area could cause unacceptable interferences to radio and TV equipment, requiring the operator to take all necessary steps to correct interferences.
Any variation introduced by the use to the supplied equipment may degrade the instruments' EMC performance. To avoid electrical shock, do not use these instruments when voltages at the measurement surface exceed 24VAC or 60VDC. To avoid damages or burns, do not perform any measurement in microwave ovens.

Dear Customer,
Thank you for choosing a Hanna product.
This manual will provide you with the necessary information for the correct operation of the meter. 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.
These instruments are 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 shipment. If there is any damage, notify your Dealer.

- Both models come supplied with:
- HI 70602 RH/temperature probe
 - 9V battery
 - instruction manual.

Note: Save all packing material until the instrument has been observed to function correctly. Any defective item must be returned in its original packing.

GENERAL DESCRIPTION

HI 9564 and HI 9565 are portable thermo-hygrometers for measurements of Temperature and Relative Humidity. HI 9565 also shows the dewpoint calculated from the measured Temperature and Relative Humidity.

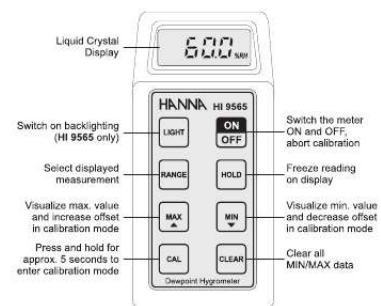
The instruments are housed in a rugged, water-resistant casing for maximum protection against effect of humidity and condensation.

The RH/temperature probe is a "smart probe" which contains the sensors, electronic sensor drive circuitry and memory to store the calibration information. This allows interchangeability between probes and meters without recalibration.

Note: The RH probe sensor must never come into contact with water or other liquids.

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

FUNCTIONAL DESCRIPTION



SPECIFICATIONS

Range	20.0 to 95.0 % RH
dewpoint (HI 9565 only)	0.0 to 60.0 °C / 32.0 to 140.0 °F (*)
Resolution	-20.0 to 60.0 °C / -4.0 to 140.0 °F
dewpoint (HI 9565 only)	0.1 °C / 0.1 °F
Accuracy	±3 % RH (50 to 85 % RH & 15 to 40 °C), ±9% RH (outside) ±0.5 °C / ±1 °F
dewpoint (HI 9565 only)	±2 °C / ±4 °F (30 to 85 % RH & 15 to 40 °C), ±4.5 °C / ±9 °F (outside)
Typical EMC Dev.	±1 % RH
dewpoint (HI 9565 only)	±0.5 °C / ±1 °F
dewpoint (HI 9565 only)	±0.5 °C / ±1 °F
Probe (included)	HI 70602 RH/temperature probe
Battery Type	1 x 9V alkaline (IEC 6LR61)
Battery Life	250 hours of continuous use
Auto-off	after 20 minutes of non use
Environment	0 to 60 °C (32 to 142 °F); 98% RH non-condensing
Dimensions	164 x 76 x 45 mm (6.5 x 3.0 x 1.8")
Weight	340 g (12 oz)

(*) Note: The meter measures temperature from -30 to 80 °C, but the RH measurement can only be taken within the range 0 to 60 °C.



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Manual abstract:

This manual will provide you with the necessary information for the correct operation of the meter. 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.
FUNCTIONAL DESCRIPTION PRELIMINARY EXAMINATION Remove the instrument from the packing material and examine it carefully to make sure that no damage has occurred during shipment. If there is any damage, notify your Dealer. Both models come supplied with: · HI 70602 RH/temperature probe · 9V battery · instruction manual. Note: Save all packing material until the instrument has been observed to function correctly. Any defective item must be returned in its original packing.

www.hannainst.com **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 a period of six months. This warranty is limited to repair or replacement free of charge.

Damage 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 problem. @@@@All rights are reserved. @@HI 9565 also shows the dewpoint calculated from the measured Temperature and Relative Humidity.

The instruments are housed in a rugged, water-resistant casing for maximum protection against effect of humidity and condensation. The RH/temperature probe is a "smart probe" which contains the sensors, electronic sensor drive circuitry and memory to store the calibration information. This allows interchangeability between probes and meters without recalibration. Note: The RH probe sensor must never come into contact with water or other liquids.
Range dewpoint (HI 9565 only) SPECIFICATIONS 20.0 to 95.0 % RH 0.0 to 60.0°C / 32.0 to 140.

0°F (*) -20.0 to 60.0°C / -4.0 to 140.0°F 0.1 % RH / 0.1°C / 0.1°F 0.1°C / 0.1°F ±3 % RH (50 to 85 % RH & 15 to 40°C); ±5% RH (outside) Resolution dewpoint (HI 9565 only) Accuracy Typical EMC Dev.

dewpoint (HI 9565 only) ±0.5°C / ±1°F dewpoint (HI 9565 only) ±2°C / ±4°F (50 to 85 % RH & 15 to 40°C); ±4.5°C / ±9°F (outside) 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 equipment, requiring the operator to take all necessary steps to correct interferences.

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 voltages at the measurement surface exceed 24VAC or 60 VDC. To avoid damages or burns, do not perform any measurement in microwave ovens. Probe (included) Battery Type Battery Life Auto-off Environment Dimensions Weight Hanna Instruments reserves the right to modify the design, construction and appearance of its products without advance notice. taken within the range 0 to 60 °C. ±1 % RH ±0.5°C / ±1°F ±0.5°C / ±1°F HI 70602 RH/temperature probe 1 x 9V alkaline (IEC 6LR61) 250 hours of continuous use after 20 minutes of non use 0 to 60°C (32 to 122°F); 98% RH non-condensing 164 x 76 x 45 mm (6.5 x 3.0 x 1.8") 340 g (12 oz.) (*)Note: The meter measures temperature from -30 to 80°C, but the RH measurement can only be OPERATIONAL GUIDE · The meter is supplied complete with a 9V battery. Remove the battery compartment cover on the back of the meter and install the battery while paying attention to its polarity. · Connect the probe to the connector on the top of the instrument and switch ON by pressing the ON/OFF key. @@@@disable/enable (20 minutes) auto-off feature; 3. disable/enable keypad acoustic signal.

@@@@@No data currently available to be displayed. If dashes are shown in MIN/MAX mode, press CLEAR to reset the values. @@@@Error in RH measurement: the sensor is wet or the probe is damaged. @@The measured RH is lower than the set value by more than 9% RH. @@@@5 seconds, until the display shows the "CAL" message. Release the button. @@· To freeze the current measurement on the LCD, press HOLD. @@Press HOLD to return to normal mode. @@@@This function clears the RH, temperature and dewpoint (HI 9565 only) values together. The display will show the "CLr" message and then return to normal mode.

· To turn on/off backlighting (HI 9565 only), press LIGHT. The backlight automatically shuts off after 1 minute without button use. · To switch the meter OFF, press the ON/OFF key. · Measure the actual RH value with a reference RH meter and then use the UP & DOWN arrow keys to match that reading. The value can be set within the 30 to 90% RH range.

Note: Hold the arrow keys to advance the display at a faster rate. · Wait until the hourglass symbol (stability indicator) on the LCD turns off, then press CAL to accept the value. If all parameters are valid, the display shows the "Str" (Store) message for a few seconds and then returns to normal mode. If a parameter is not valid, an error message will be displayed (see "Error messages" section). Note: Pressing CAL key while the hourglass symbol is on will not accept calibration.

· For successful calibration, the measured temperature must be within 15 to 35°C (59 to 95°F), and the displayed set value must be within ±9% RH of the actual measured value by the probe. When the CAL key is pressed to accept the value, the meter automatically verifies all parameters. · To exit calibration mode without saving any values, press and release the ON/OFF button. The meter will display "ESC" and then shut off. @@@@1. Weak battery: at start-up the display shows the "Cb" (Change battery) message for a few seconds, then enters normal operation together with a blinking battery symbol. The meter can still work for a few hours, but it is recommended to replace the battery soon. 2. Dead battery: at start-up the display shows the "Eb" (Error battery) message for a few seconds, then the meter shuts off to avoid erroneous readings. Replace the battery.

In order to replace a rundown battery, remove the battery compartment cover on the back of the meter and replace the battery with a new one, while paying attention to the correct polarity. Battery replacement must only take place in a non hazardous area using a 9V alkaline battery. IST9565 02/05 .



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