

You can read the recommendations in the user guide, the technical guide or the installation guide for HANNA INSTRUMENTS HI 87314. You'll find the answers to all your questions on the HANNA INSTRUMENTS HI 87314 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

> **User manual HANNA INSTRUMENTS HI 87314 User guide HANNA INSTRUMENTS HI 87314 Operating instructions HANNA INSTRUMENTS HI 87314** Instructions for use HANNA INSTRUMENTS HI 87314 **Instruction manual HANNA INSTRUMENTS HI 87314**

Instruction Manual

HI 87314 EC/Resistivity Meter





WARRANTY

pose and maintained according to instructions are warranted for a period of six months. uctions. Electrodes and pro

This warranty is limited to repair or replacement free of charge Damages due to accident, misuse, tampering or lack of pres tenance are not covered.

If service is required, contact the dealer from whom you purchased the trument. If under worming, report the model number, dotted of purchase, rich number and the nature of the failure. If the report is not covered by warming, you will be notified of the charges incurred. If the instrument to be returned to Hanna Instruments, first obtain or Returned Goods throization Number from the Custamer Service department and then send it with shipment costs prepaid. When shipping any instrument, make sure it is properly packaged for complete protection.

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

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.

PRELIMINARY EXAMINATION

Remove the instrument from the packing material and exam ine it carefully to make sure that no damage has occurred during shipment. If there is any damage, notify your Dealer. The meter is supplied complete with:

- . HI 76302W 4-ring conductivity probe
- 9 V battery (not rechargeable) calibration screwdriver and instructions.
- Note: Conserve all packing material until the instrument has been observed to function correctly. Any defective item must be returned in its original packing.

GENERAL DESCRIPTION

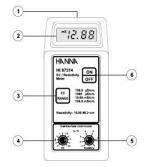
All Brain to Communitoria Disorder ment can react connectivity in different rouge, and resistivity. For conductivity measurements, the collection is a simple 1 point procedure through a trimmer located in the battery compartment, and the supplied probe does not require recollibration when switching from one rouge to enother. The 4-steinles-steel-ring probe has a built-in tempera-tion sensor that outermittedity compensates for interprotone changes, and the temperature coefficient can be adjusted from 0 to 2.5% through a knob on the front panel.

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For resistivity measurements, the meter is factory collibrated and, if necessary, califluration can be adjusted by acting on the proper intermer boated in the bottery compositioners. The Ht 3316D resistivity probe is only to close and requires little maintenance. It also features a built-in temperature series to automatically compensate for temperature variations, with on user-selectable from 2 to 791 or 601 or 101 or 1

meter automatically recognizes which probe is connected.

The instrument can also be powered by a 9V rechargeable battery, thanks to its inductive system for battery recharge, with no external contact, to ensure a watertight seal. The battery can be recharged using the HI 710040 battery charger (optional), without needing to open the mete

FUNCTIONAL DESCRIPTION



- 1) DIN connector for EC and resistivity probe
- 2) Liquid Crystal Display
- 3) EC RANGE key, to select the conductivity range
- 4) Conductivity temperature coefficient knob
- 5) Resistivity temperature coefficient knob 6) ON/OFF key, to turn the meter ON and OFF
- B) Conductivity calibration trimmer Q 9 V battery (can also be rechargeable)

0 to 19.90 MΩ • cm Resolution 0.1 μS/cm / 1 μS/cm / 0.01 mS/cm / 0.1 mS/cm

A

0.10 MΩ • cm

Calibration Manual, 1 point, for both EC and resistivity

Temperature Compensation
Automatic from 0 to 50°C with 8 selectable from 0 to 2.5%/°C for EC and from 2 to 7%/°C for resistivity

SPECIFICATIONS

199.9 µS/cm / 1999 µS/cm

(c)

(B)

Probes (included) HI 76302W for conductivit

HI 3316D for resistivity Battery Type 1 x 9V (also rechargeable) **Battery Life** Approx. 100 hours of use Environment 0 to 50°C (32 to 122°F); RH max 100% Dimensions 164 x 76 x 45 mm (6.5 x 3.0 x1.8")



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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 tech@hannainst.com. @@If there is any damage, notify your Dealer.
@@@@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.

Electrodes and probes are warranted for a period of 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. GENERAL DESCRIPTION HI 87314 is a combination portable meter that can read conductivity in 4 different ranges, and resistivity. For conductivity measurements, the calibration is a simple 1 point procedure through a trimmer located in the battery compartment, and the supplied probe does not require recalibration when switching from one range to another.

The 4-stainless-steel-ring probe has a built-in temperature sensor that automatically compensates for temperature changes, and the temperature coefficient can be adjusted from 0 to 2.5% through a knob on the front panel. For resistivity measurements, the meter is factory calibrated and, if necessary, calibration can be adjusted by acting on the proper trimmer located in the battery compartment. The HI 3316D resistivity probe is easy to clean and requires little maintenance. It also features a built-in temperature sensor to automatically compensate for temperature variations, with an user-selectable (from 2 to 7%) coefficient. @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@#The instrument will automatically recognize which probe is connected.

@@@@@@@@@@@@@@@Adjust the conductivity TC knob to 2%/°C. @@Note: If the display shows "1", the reading is over-range. Select the next higher range. · Allow a few minutes for the reading to stabilize and adjust the conductivity calibration trimmer located in the battery compartment, to read the calibration solution value @25°C (77°F).

·All subsequent measurements will be referenced to 25°C. · If you need to reference the measurements to 20°C, adjust the calibration knob to read the calibration solution value @20°C (68°F). See conductivity vs. temperature chart on the calibration solution sachet or bottle label. · Calibration is now complete and the instrument is ready for use. RESISTIVITY CALIBRATION · The meter is factory calibrated for resistivity range, and usually needs recalibration only after a resistivity probe replacement. In this case, follow the below instructions. · Immerse the probe in a solution of known resistivity value, and wait for the reading to stabilize. · Adjust the resistivity calibration trimmer located in the battery compartment, until the resistivity value of the reference solution is displayed. BATTERY REPLACEMENT When the battery becomes weak, the meter displays a blinking additional decimal point on the left side of the LCD.

When the low battery indicator appears only a few hours of battery life is remaining. A low battery level may also result in unreliable measurements. It is recommended to replace the battery immediately. Unscrew the 3 screws on the back of the meter, remove the battery cover and replace the battery while paying attention to its polarity. TAKING CONDUCTIVITY MEASUREMENTS · Immerse the HI 76302W probe in the solution, while making sure that the holes of the sleeve are completely submerged.

Tap the probe lightly on the bottom of the beaker to remove any air bubbles trapped inside. · Adjust the conductivity TC knob to the temperature coefficient value of the solution. · Select the appropriate conductivity range, by pressing EC RANGE key. Note: If the display shows "1", the reading is over-range. Select the next higher range.

Allow a few minutes for the reading to stabilize, and the LCD will display the temperature compensated conductivity reading. ACCESSORIES HI 76302W 4-ring conductivity probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable HI 7030M 12880 μS/cm, 230 mL bottle HI 7031M 1413 μS/cm, 230 mL bottle HI 7033M 84 μS/cm, 230 mL bottle HI 7034M 80000 μS/cm, 230 mL bottle HI 7035M 111800 μS/cm, 230 mL bottle HI 7039M 5000 μS/cm, 230 mL bottle HI 7061M General cleaning solution, 230 mL bottle HI 710040 No-contact, inductive battery charger HI 731326 Calibration screwdriver (20 pcs) HI 76405 Electrode holder TAKING RESISTIVITY MEASUREMENTS · Immerse the HI 3316D probe in the solution, while making sure that the hole on the probe body is completely submerged. · Wait for a few seconds to allow the reading to stabilize. The resistivity value of the solution will be displayed on the LCD. Note: If the display shows "1", the reading is overrange. @@@@@Plug the recharger and the green LED will turn on, then put the meter on the recharger and the LED will turn to orange, to indicate that the battery is charging. It will take approx. 14 hours to completely charge the battery.

A 9V Ni-MH rechargeable battery can last for about 5 years. Note: NEVER USE THE HI 710040 CHARGER WITH NONRECHARGEABLE BATTERY. Note:

Dispose of the Ni-MH battery according to local regulations. IST87314 11/05.



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