



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HANNA INSTRUMENTS HI 8633. You'll find the answers to all your questions on the HANNA INSTRUMENTS HI 8633 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 8633**  
**User guide HANNA INSTRUMENTS HI 8633**  
**Operating instructions HANNA INSTRUMENTS HI 8633**  
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**Instruction manual HANNA INSTRUMENTS HI 8633**

**Instruction Manual**  
**HI 8633**  
**HI 8733 - HI 8734**  
**Reliable and Waterproof**  
**Multi-Range**  
**Conductivity Meters**



**HANNA**  
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**Manual abstract:**

*hannainst.com Dear Customer, Thank you for choosing a Hanna Product. Please read this instruction manual carefully before using the instrument. It will provide you with the necessary information for a correct use of the instrument, as well as a more precise idea of its versatility. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com. These instruments are in compliance with the 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 immediately. Each meter is supplied with: · Conductivity probe with DIN connector and 1 m (3.*

*3') cable: · HI 76301D for HI 8633 and HI 8734 · HI 76302W for HI 8733 · Calibration solution sachet · Screwdriver, 1 x 9V battery and instruction manual*

*Note: Save all packing materials until you are sure that the instrument functions correctly. Any damaged or defective item must be returned in its original packing materials together with the supplied accessories. TABLE OF CONTENTS PRELIMINARY EXAMINATION ...*

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@@18°C).

@@@The solution should ideally be close to the samples being measured. @@@@HI 7030 or HI 7032) into a beaker to cover the holes on the probe. If possible, use plastic beakers to minimize any EMC interference. @@@@temperature table), e.g.

@@temperature chart), e.g. @@@@temperature chart) or "1251 mg/L" (see the TDS vs. temperature chart). All subsequent measurements will be compensated to 20°C. @@@@HI 7030/ HI 8030) into a beaker to cover the holes on the probe. If possible, use plastic beakers to minimize any EMC interference. @@@@. Switch the instrument on by pressing ON/OFF. · Set the temperature coefficient knob to 2% to compensate for the temperature effect of average solutions (to determine exact value for a particular solution, see page 14). · Select 19.

99 mS/cm range by pressing the appropriate range key. 10 ON OFF HI 703 0 · All subsequent measurements will be compensated to 25°C (77°F). If you prefer to standardize the temperature compensation to 20°C (68°F) rather than 25°C (77°F), adjust the trimmer to read "11.67 mS" (see the conductivity vs. temperature chart on page 18). All subsequent measurements will be compensated to 20°C. @@@@Note: For more accurate results, it is advisable to use a calibration solution close to the range to be measured. See the "Accessories" section for a wide selection of conductivity solutions. 0 0.5 1 1.

5 2.5 2 TEMPERATURE COEFFICIENT 19.99 mS 11 CONDUCTIVITY VERSt never come into close contact with a heat source. If the probe is exposed to high temperatures (above 50°C/122°F), the rings might become loose or detached, resulting in a serious impairment of the probe. In such cases, the probe has to be replaced.

TEMPERATURE COEFFICIENT · Condition the sample and probe to 25°C and note the conductivity reading, C25. · Condition the sample and probe to a different temperature t°C (approximately 10°C different from 25°C) and note the conductivity reading Ct. · The temperature coefficient of the solution is calculated as given by the following formula:  $(Ct - C25) = 100 \times (t - 25) \times C25$  The above procedure is suitable for determining the temperature coefficient in a laboratory or where the temperature of the solution can be controlled. If this is not possible (e.g.

on-site measurements), the following procedure can be used providing the sample temperature varies by at least 5°C or preferably 10°C: · Immerse the probe of HI 8733 in the test solution and turn the TEMPERATURE COEFFICIENT knob to 0% (no compensation). · Check the conductivity reading and record the value. Make sure the reading is stable, i.e. no greater variations than ±0.2 mS/cm within a minute. · Repeat the procedure when the temperature of the test solution has changed by at least 5°C. Wait for the conductivity reading to stabilize. · Adjust the TEMPERATURE COEFFICIENT knob until the display shows the same value as recorded earlier. · The value indicated by the knob is the temperature coefficient of the solution.

14 15 BATTERY REPLACEMENT When the battery becomes weak the meters will display an additional blinking decimal point. HI 7030L HI 7030M HI 7031L HI 7031M HI 7033L HI 7033M HI 7034L HI 7034M HI 7035L HI 7035M HI 7039L HI 7039M HI 7032L HI 7032M HI 7036L HI 7036M

ACCESSORIES CALIBRATION SOLUTIONS 12880 µS/cm, 500 mL bottle 12880 µS/cm, 230 mL bottle 1413 µS/cm, 500 mL bottle 1413 µS/cm, 230 mL bottle 84 µS/cm, 500 mL bottle 84 µS/cm, 230 mL bottle 80000 µS/cm, 500 mL bottle 80000 µS/cm, 230 mL bottle 111800 µS/cm, 500 mL bottle 111800 µS/cm, 230 mL bottle 5000 µS/cm, 500 mL bottle 5000 µS/cm, 230 mL bottle 1382 ppm (mg/L), 500 mL bottle 1382 ppm (mg/L), 230 mL bottle 12.41 ppt (g/L), 500 mL bottle 12.41 ppt (g/L), 230 mL bottle When the low battery indicator appears, the battery has only a few hours left. A low battery will result in unreliable measurements. It is recommended to replace the battery immediately. Battery replacement must only take place in a nonhazardous area using a 9V alkaline battery. Unscrew the three screws on the rear of the meter, remove the battery compartment cover and replace the 9V battery with a new one.

CONDUCTIVITY PROBES HI 76301D Conductivity probe with 1m (3.3') cable and DIN connector HI 76302W Conductivity probe with built-in temperature sensor, 1m (3.

3') cable and DIN connector Make sure the battery contacts are tight and secure before replacing the cover. OTHER ACCESSORIES ChecktempC HI 710015 HI 710016 HI 710022 Electronic thermometer (range: -50.0 to 150.0°C) Shockproof rubber boot, blue Shockproof rubber boot, orange Spare protective case

16 17 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 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 shipping costs prepaid. @@@@Avoid touching this metal band at all times. 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 24 Vac or 60 Vdc. Use plastic beakers to minimize any EMC interferences. To avoid damage or burns, do not perform any measurement in microwave ovens. Hanna Instruments reserves the right to modify the design, construction and appearance of its products without advance notice. 18 19 SALES AND TECHNICAL SERVICE CONTACTS Australia: Tel. (03) 9769.0666 · Fax (03) 9769.

0699 China: Tel. (10) 88570068 · Fax (10) 88570060 Egypt: Tel. & Fax (02) 2758.683 Germany: Tel. (07851) 9129-0 · Fax (07851) 9129-99 Greece: Tel. (210) 823.5192 · Fax (210) 884.0210 Indonesia: Tel. (21) 4584.2941 · Fax (21) 4584.

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