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SPECIFICATIONS

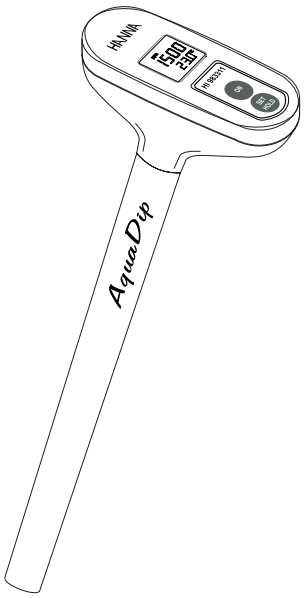
Range	0 to 3999 µS/cm / 0 to 2000 ppm 0.0 to 60.0°C
Resolution	1 µS/cm / 1 ppm / 0.1°C
Accuracy (@20°C)	±2% f.s. (EC/TDS) / ±0.5°C
Typical EMC Deviation	±2% f.s. (EC/TDS) ±1°C
TDS Factor	0.5 or 0.7 (two options available upon request)
Calibration	factory calibrated
Temp. Compensation	automatic, with β=2.1%/°C
Battery Type	2 x 1.5V AAA
Battery Life	approx. 180 hours of use
Auto-off	after 8 minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH 100%
Dimensions	94x38x440 mm (3.7x1.5x17.3")
Weight	approx. 200 g (7.8 oz.)

IST983311 03/05

Instruction Manual

AquaDip

HI 983311 • Rugged Waterproof
EC / TDS / Temperature Meter



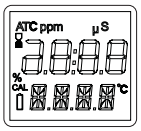
HANNA instruments
www.hannainst.com

Dear Customer,

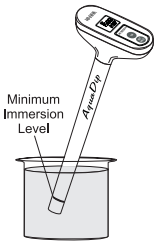
Thank you for choosing a Hanna Instruments product.

Please read this instruction manual carefully before using the instrument. 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.

OPERATIONAL GUIDE



- To switch the meter on, press the ON button. All the used segments on the LCD will be visible for a few seconds, followed by a percent indication of the remaining battery life (e.g. % 100 BATT).
- Immerse the probe in the solution to be tested, while paying attention to the minimum immersion level marked on the meter shaft.
- Select either EC or TDS mode with the SET/HOLD button.
- The reading is stable when the hourglass symbol on the LCD disappears.

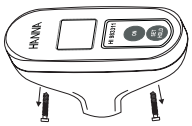


- The EC (or TDS) value is shown on the primary LCD, while the secondary LCD displays the temperature of the sample. The ATC symbol on the LCD means that measurements are Automatically Temperature Compensated.
- **To freeze the display**, press the SET/HOLD button until HOLD appears on the secondary LCD. Press either button to return to the normal mode.
- **The meter will automatically switch off after 8 minutes of non-use**.

Note: The CAL symbol on the LCD means that the meter has been calibrated. If necessary, contact your Dealer for recalibration.

BATTERY REPLACEMENT

- The meter displays the remaining battery percentage every time it is switched on. When the battery level is below 5%, the battery symbol appears on the LCD to indicate a low battery condition. The batteries should be replaced soon.
- **HI 983311** also features the Battery Error Prevention System (BEPS), that automatically turns the meter off when the battery level is too low to support proper operations and ensure reliable readings.
- When batteries need to be replaced, simply remove the two screws on the bottom cover and replace the two 1.5V AAA batteries with new ones, while paying attention to the correct polarity.



- Battery replacement must only take place in a non-hazardous area and using two 1.5V AAA alkaline batteries.

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

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 interference to radio and TV equipment. Any variation introduced by the user to the supplied equipment may degrade the instrument EMC performance. To avoid electrical shocks, do not use this instrument 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.