HI 98188

Graphic Display EC/Resistivity/TDS/NaCl Meter with USP <645>

13:52:12 EC

Log

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CAL

SETUP

HI 98188

Lock

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RCL

GIP

EC/TDS/NaCI/Resisitivity Meter

mS

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HELP

RANGE

MODE

Linear 24.9°C Tref 25.0°C AutoEnd

- Autorange from 0.001 µS/cm to 1,000 mS/cm (actual EC)
- Ready to perform all three stages of USP <645>method required for EC measurement of pure and ultra pure water
- Linear, natural water, or no temperature compensation
- Memorize up to ten user profiles
- Log on demand and autolog
 All logged data can be transferred to PC through USB port.
- GLP features
- Backlit, graphic display

Rechargeable batteries

These models have up to 100 hours of extended battery life to guarantee long operation in the field. When the batteries are low, you don't have to worry about carrying a spare set with you-the batteries can be recharged with HANNA's inductive recharger. Simply leave the meter on the recharger for a few hours and you're ready to go. The recharger can be plugged into a standard 115V or 230V socket using the appropriate HANNA adapter.

Choose from seven memorized standards and obtain up to a five point conductivity calibration. For salinity (% range), HI 7037 standard allows users to make a one point calibration.

EC and TDS measurements are fully customizable and include: cell contant selection between 0.0 and 10.000, selection of linear or natural water (non-linear) or no (for actual conductivity reading) temperature compensation, configurable temperature compensation coefficient range from 0.00 to 10.00%/°C, choice of reference temperatures of of 15°C, 20°C and 25°C and a selectable TDS factor between 0.40 and 1.00.

Ten sets of customized measurement parameters can be stored as a user profile and recalled for later use.

Data may be captured by either the log on demand option (400 samples) or by interval logging (from 5 sec to 1 minute). Data can be transferred to a PC using HI 92000 software and HI 920013 USB cable.

A combination of dedicated and soft keys allows quick, intuitive operation in a choice of languages. Comprehensive GLP data is directly accessible by pressing the GLP key. At the touch of a button users can access the contextual help menu to obtain on-screen information and assistance about each feature.

Designed for field use, this instrument can be easily operated with one hand and includes a rugged carrying case. With an extended battery life of up to 100 hours, users are assured long operation. The inductive charger can either be plugged into a standard 115V socket with the adapter included or a 12 Vdc source, such as a car's 12 volt accessory outlet.



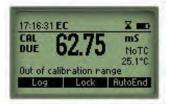
With Great Products, Come Great Results™

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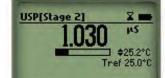


3 Stage conformity

This meter can perform all 3 stages of USP <645> water quality testing requirements.



SPECIFICATIONS



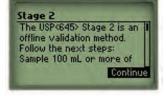
Progress bar

Meter displays progress towards meeting stage 2 stability requirements.

Measurement

Large backlit graphic display shows multiple messages along with the current measurement readings.

HI 98188



On-screen guide

Users are provided with onscreen instructions for each USP stage.





User profiles

10 sets of measurement parameters can be stored in user profiles for later retrieval.

Help

Users can consult the onscreen help from any mode by pressing the HELP key. The instrument will then explain the function and options currently available.

EC	Range Resolution Accuracy	0.001 µS/cm to 400 mS/cm (actual conductivity 1000 mS/cm) 0.001 to 9.999 µS/cm*; 10.00 to 99.99 µS/cm; 10.00 to 999.9 µS/cm; 1.000 to 9.999 mS/cm; 10.00 to 99.99 mS/cm; 100.0 to 1000.0 mS/cm (actual EC) (autoranging) 0.001 µS/cm*; 0.01 µS/cm; 0.1 µS/cm; 0.001 mS/cm; 0.1 mS/cm ±1% of reading (±0.01 µS/cm or 1 digit, whichever is greater)
Resistivity	Range Resolution Accuracy	1.0 to 99.9 Ohms; 100 to 999 Ohms; 1.00 to 9.99 KOhms; 10.0 to 99.9 KOhms; 100 to 999 KOhms; 1.00 to 9.99 MOhms; 10.0 to 100.0 MOhms (autoranging) 0.1 Ohm; 1 Ohm; 0.01 KOhms; 0.1 KOhms; 1 KOhms; 0.01 MOhms; 0.1 MOhms ±1% of reading (±10 Ohms or 1 digit, whichever is greater)
TDS	Range Resolution Accuracy	0.00 to 99.99 mg/L (ppm); 100.0 to 999.9 mg/L (ppm); 1.000 to 9.999 g/L (ppt); 10.00 to 99.99 g/L (ppt); 100.0 to 400.0 g/L (ppt) (autoranging) 0.01 mg/L (ppm); 0.1 mg/L (ppm); 0.001 g/L (ppt); 0.01 g/L (ppt); 0.1 g/L (ppt) ±1% of reading (±0.05 mg/L (ppm) or 1 digit, whichever is greater)
NaCl	Range Resolution Accuracy	%: 0.0 to 400.0%; seawater scale: 0.00 to 80.00 (ppt); practical salinity: 0.01 to 42.00 (PSU) 0.1%; 0.01 ±1% of reading
Temperature	Range Resolution Accuracy	-20.0 to 120.0°C 0.1°C ±0.2°C (excluding probe error)
Calibration	EC NaCl	automatic up to five points with seven memorized standards (0.00 μS/cm, 84.0 μS/cm, 1.413 mS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm) one point only in % range (with HI 7037 standard); use conductivity calibration for all other ranges
Temperature Temperature Compensation Reference Temperature Temperature Coefficient TDS Factor		one or two points -20.0 to 120.0°C 15°C, 20°C and 25°C 0.00 to 10.00 %/°C 0.40 to 1.00
Probe		HI 76313 platinum, four ring conductivity/TDS probe with internal temperature sensor, DIN connector and 4 m (13.1') cable (included)
Logging	Log On Demand Lot Logging	400 samples 5, 10, 30 sec, 1, 2, 5, 10, 15, 30, 60, 120, 180 min (max 1000 samples)
Memorized Profiles Measurement Modes		up to 10 autorange, autoend, LOCK and fixed range
PC Connectivity Battery Type / Life		opto-isolated USB (with HI 92000 software) 1.2V AA rechargeable batteries (4) / approximately 100 hours of continuous use
Environment		(without backlight); user selectable auto-off: 5, 10, 30, 60 minutes or disabled IP67
Dimensions		226.5 x 95 x 52 mm (8.9 x 3.75 x 2")

ORDERING INFORMATION

HI 98188-01 (115V) and HI 98188-02 (230V) are supplied with HI 76313 conductivity probe, 100 mL plastic beaker, HI 7031M 1413 mS/cm calibration solution (230 mL), HI 7035 111.8 mS/cm calibration solution, rechargeable batteries, 12 VDC adapter/ charger, instructions and rugged carrying case.

HI 98188/10M (230V) is supplied with everything above but includes a HI 76313 probe with 10 m (32.8') cable in place of the standard cable length.

PROBES

HI 76313 Platinum, four ring conductivity/ TDS probe with internal temperature sensor, DIN connector and 4 m (13.1') cable

SOLUTIONS

SOLUTIONS		
HI 7030L	12880 µS/cm calibration solution, 500 mL	
HI 7031L	1413 µS/cm calibration solution, 500 mL	
HI 7033L	84 µS/cm calibration solution, 500 mL	
HI 7034L	80000 µS/cm calibration solution, 500 mL	
HI 7035L	111800 µS/cm calibration solution, 500 mL	
HI 7039L	5000 µS/cm calibration solution, 500 mL	
HI 7035L	111800 µS/cm calibration solution, 500 mL	
HI 70442L	1500 mg/L (ppm) calibration solution, 500 mL	
HI 7036L	12.41 g/L (ppt) calibration solution, 500 mL	
HI 7037L	Salinity solution, 500 mL	
HI 7061L	Electrode cleaning solution, 500 mL	

ACCESSORIES

HI 92000Windows® compatible softwareHI 920013USB cable for PC connection

For a complete list of Solutions, see the end of this section.

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