HI98192

Professional Waterproof Meters

EC/TDS/Resistivity/Salinity Meter with USP <645>

Waterproof

 IP67 rated waterproof, rugged enclosure

• Salinity readings

 Salinity can be displayed as % NaCl, seawater scale (ppt) or practical salinity scale (PSU)

Calibration

 Perform up to a five point calibration for enhanced accuracy

• Temperature compensation

- · Automatic Temperature Compensation
- Configurable temperature coefficient range from 0.00 to 10.00%.°C

• Four-ring stainless steel probe

 This probe can cover low EC samples to 1000 mS/cm (actual EC)

Clear display

 Dot matrix display with multifunction virtual keys

AutoHold

 Automatically holds the first stable reading on the display

· Calibration timeout

 Alerts when calibration is due at a specified interval

Connectivity

 PC connectivity via opto-isolated micro-USB with HI92000 software

• GLP

 GLP data provides data from previous calibration to ensure Good Laboratory Practices are met

• Approximately 100 hour battery life

· Powered by (4) 1.5V AA batteries

· Intuitive keypad

 Most of the available options such as GLP information, help, range, calibration and backlight have a dedicated button

· Supplied complete

 Each meter is supplied complete with sensor, calibration solution, beakers, PC software and connection cable, instruction manual, quick start guide and batteries in a rugged, custom carrying case.



For Universal Applications

HI98192 is a waterproof, portable conductivity meter that has an expanded conductivity range from 0.000 $\mu\text{S/cm}$ to 400 mS/cm, as well as TDS, resistivity and three salinity scales. This meter offers a quick connect four-ring probe and allows the user to adjust the nominal cell constant. HI98192 is also ready to perform all three stages of USP <645> method required for EC measurement of ultrapure water.



• Optional shockproof silicon rubber boot

 Specially designed to protect your instrument from damage or impact

HI710034 Orange





Backlit Graphic LCD Display

The HI98192 features a backlit graphic LCD with on-screen help. The graphic display allows for the use of virtual keys to provide for an intuitive user interface.

Waterproof Protection

The meter is enclosed in an IP67 rated waterproof casing and can withstand immersion in water at a depth of 1 m for up to 30 minutes.



Quick connect probe

The HI763133 four-ring stainless steel conductivity probe features a quick connect DIN connector to make attaching and removing the probe simple and easy.

PC Connectivity

Logged data can be transferred to a Windows compatible PC with the included HI920015 micro USB cable and HI92000 software.



Calibration

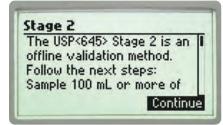
Choose from seven memorized standards and obtain up to a five point conductivity calibration. For salinity (% range), HI7037 standard allows users to perform a one point calibration.

USP <645>

HI98192 can be used to perform all three stages of USP method required for EC measurement of ultrapure water and generates a report when the any of the three stages are met.



- Three stages of conformity
 - Performs all 3 stages of USP <645> water quality testing requirements



- On-screen guide
- Users are provided with on-screen instructions for each USP stage



- · Progress bar
- Displays reading stability progress towards meeting stage 2 requirements



Measurement

EC and TDS measurements are fully customizable and include: cell constant selection between 0.010 and 10.000, selection of linear or natural water (nonlinear) or no temperature compensation (for actual conductivity reading), configurable temperature compensation coefficient range

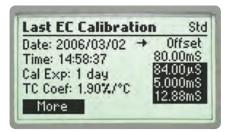
from 0.00 to 10.00%/°C, choice of reference temperatures of 15°C, 20°C and 25°C, and a selectable TDS factor between 0.40 and 1.00.

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



Data Logging

The HI98192's allows storage of up to 400 log-on-demand samples or 1000 lot logging samples that can be later transferred to a PC with the supplied HI920015 USB cable and HI92000 software.



GI P

Comprehensive GLP functions are directly accessible by pressing the GLP key. Calibration data, including date, time and calibration values are stored for retrieval at a later time



AutoHold

Pressing AutoHold during measurement will automatically hold the first stable reading on the display.

Dedicated Help Key

Contextual help is always available through a dedicated "HELP" key. Clear tutorial messages and directions are available on-screen to quickly and easily guide users through setup and calibration. The help information displayed is relative to the setting/option being viewed.



Rugged custom carrying case

The HI98192 meter, probe, and all accessories are supplied in the HI720192 rugged carrying case designed to provide years of use. The inside compartment of the carrying case is thermoformed to securely hold and protect all of the components.



Range 0 to 400 mS/cm (shows values up to 1000 mS/cm actual conductivity)** 0.001 to 9.999 μS/cm*, 10.00 to 9.999 mS/cm*, 10.00 to 9.999 mS/cm*, 10.00 to 9.999 mS/cm*, 10.00 to 19.00.0 mS/cm (autoranging)	
EC	.99 μS/cm;
Accuracy	
Calibration 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm)	
Resolution 0.01 ppm; 0.1 ppm; 0.001 g/L; 0.01 g/L	S/cm,
Accuracy ±1% of reading (±0.05 ppm or 1 digit, whichever is greater) Resistivity Resolution 0.1 \(\Omega \cdot \	ging)
Resistivity Range 1.0 to 99.9 Ω • cm; 100 to 999 Ω • cm; 1.00 to 9.99 KΩ • cm; 10.0 to 99.9 KΩ • cm; 100 to 999 KΩ • cm; 100 to 99.9 KΩ • cm; 100 to 90.0 to 90.0 to 100 to 90.0 t	
ResistivityRange10.0 to 100.0 MΩ•cm* (autoranging)Resolution0.1 Ω•cm; 1 Ω•cm; 0.01 KΩ•cm; 0.1 KΩ•cm; 0.01 MΩ•cm; 0.1 MΩ•cm*Accuracy±1% of reading (±10 Ω or 1 digit, whichever is greater)Range% NaCl: 0.0 to 400.0%; practical salinity: 0.00 to 42.00 (PSU); seawater scale: 0.00 to 80.00 (ppt)Resolution0.1%; 0.01Accuracy±1% of readingCalibrationmax. one point only in % NaCl range with HI7037 standard; use conductivity calibration for all other rangesRange-20.0 to 120.0°C; -4.0 to 248.0°FResolution0.1°C; 0.1°FAccuracy±0.2°C; ±0.4°F (excluding probe error)Calibrationone or two points	
Resolution 0.1 Q+cm; 1.0 + cm; 0.1 KQ+cm; 0.01 MQ+cm; 0.1 MQ+cm; 0	·cm;
Range % NaCl: 0.0 to 400.0%; practical salinity: 0.00 to 42.00 (PSU); seawater scale: 0.00 to 80.00 (ppt) Resolution 0.1%; 0.01 Accuracy ±1% of reading Calibration max. one point only in % NaCl range with HI7037 standard; use conductivity calibration for all other ranges Range -20.0 to 120.0°C; -4.0 to 248.0°F Resolution 0.1°C; 0.1°F Accuracy ±0.2°C; ±0.4°F (excluding probe error) Calibration one or two points	
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Salinity Accuracy ±1% of reading Calibration max. one point only in % NaCl range with HI7037 standard; use conductivity calibration for all other ranges Range -20.0 to 120.0°C; -4.0 to 248.0°F Resolution 0.1°C; 0.1°F Accuracy ±0.2°C; ±0.4°F (excluding probe error) Calibration one or two points	
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Temperature † Resolution 0.1°C; 0.1°F Accuracy ±0.2°C; ±0.4°F (excluding probe error) Calibration one or two points	
Temperature T Accuracy ±0.2°C; ±0.4°F (excluding probe error) Calibration one or two points	
Accuracy ±0.2°C; ±0.4°F (excluding probe error) Calibration one or two points	
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Call Constant Satury 0.010 to 10.000	
Cell Collistant Scrap 0.010 to 10.000	
Temperature Compensation NoTC, linear (-20.0 to 120.0°C (-4.0 to 248.0°F)), non linear (0 to 36°C (32 to 98.6°F)) ISO/DIS 7888 std	
Reference Temperature 15°C, 20°C and 25°C	
Temperature Coefficient 0.00 to 10.00 %/°C	
TDS Factor 0.40 to 1.00	
Probe HI763133 stainless steel, four-ring conductivity/TDS probe with internal temperature sensor and 1.5 m (4.9') ca	ble (included)
Additional Logging log-on-demand: 400 samples; lot logging: 5, 10, 30 sec, 1, 2, 5, 10, 15, 30, 60, 120, 180 min (max 1000 samples)	!S)
Memorized Profiles up to 10	
Measurement Modes autorange, autoend, lock and fixed range	
PC Connectivity opto-isolated sealed USB (with HI92000 software and micro USB cable)	
Battery Type / Life 1.5V AA batteries (4) / approximately 100 hours of continuous use (without backlight), 25 hours with backlight	jht;
Auto-off user selectable: 5, 10, 30, 60 min, disabled	
Environment 0 to 50°C (32 to 122°F); RH 100% IP67	
Dimensions/Weight 185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") / 400 g (14.2 oz.)	
Ordering Information HI98192 is supplied with HI763133 stainless steel, four-ring conductivity/TDS probe, HI7031M1413 μS/cm calibration solution (230 mL), HI7035M111.8 mS/cm calibration solution (230 mL), 100 mL plastic beaker (2), HI92000 PC software, HI920015 micro USB cable, 1.5V AA to quick start guide, quality certificate and instruction manual in an HI720192 rugged carrying case with custom insert.	
Accessories HI710034 orange protective rubber boot	oatteries (4),

