



HI98192

Professional Waterproof Meter s

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

- **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

- **Approximately 100 hour battery life**

- Powered by (4) 1.5V AA batteries

- **Four-ring platinum probe**

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



For Universal Applications

HI98192 is a waterproof, portable conductivity meter that has an expanded conductivity range from 0.000 $\mu\text{S}/\text{cm}$ to 400 mS/cm , as well as TDS, resistivity and three salinity scales. This meter automatically recognizes the probe type (two or four ring) 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.

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

EC and TDS measurements are fully customizable and include: cell constant selection between 0.010 and 10.000, selection of linear or natural water (non-linear) or no temperature compensation (for actual conductivity reading), configurable temperature compensation coefficient range from 0.00 to 10.00%/°C, choice of reference



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Specifications

HI98192	
EC	Range
	0 to 400 mS/cm (shows values up to 1000 mS/cm); actual conductivity 1000 mS/cm**; 0.001 to 9.999 μ S/cm*; 10.00 to 99.99 μ S/cm; 100.0 to 999.9 μ S/cm; 1.000 to 9.999 mS/cm; 10.00 to 99.99 mS/cm; 100.0 to 1000.0 mS/cm (autoranging)
	Resolution
	0.001 μ S/cm*; 0.01 μ S/cm; 0.1 μ S/cm; 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm
TDS	Accuracy
	automatic up to five points with seven memorized standards (0.00 μ S/cm, 84.0 μ S/cm, 1.413 mS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm)
	Calibration
Resistivity	Range
	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)
	Resolution
	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)
Salinity	Accuracy
	±1% of reading (±0.05 mg/L (ppm) or 1 digit, whichever is greater)
	Calibration
	1.0 to 99.9 Ω •cm; 100 to 999 Ω •cm; 1.00 to 9.99 K Ω •cm; 10.0 to 99.9 K Ω •cm; 100 to 999 K Ω •cm; 1.00 to 9.99 M Ω •cm; 10.0 to 100.0 M Ω •cm* (autoranging)
Temperature	Range
	0.1 Ω •cm; 1 Ω •cm; 0.01 K Ω •cm; 0.1 K Ω •cm; 1 K Ω •cm; 0.01 M Ω •cm; 0.1 M Ω •cm*
	Resolution
	±1% of reading (±10 Ω or 1 digit, whichever is greater)
Additional Specifications	Accuracy
	% NaCl : 0.0 to 400.0%; practical salinity: 0.00 to 42.00 (PSU); seawater scale: 0.00 to 80.00 (ppt)
	Calibration
	0.1%; 0.01
Logging	Resolution
	±1% of reading
	Accuracy
	max. one point only in % range (with HI7037 standard); use conductivity calibration for all other ranges
Probe	Calibration
	-20.0 to 120.0°C; -4.0 to 248.0°F
	Range
	0.1°C; 0.1°F
Cell Constant Setup	Resolution
	±0.2°C; ±0.4°F (excluding probe error)
	Accuracy
	one or two points
Temperature Compensation	Calibration
	0.010 to 10.000
	Reference Temperature
	NoTC, linear (-20.0 to 120.0°C (-4.0 to 248.0°F)), non linear (0 to 36°C (32 to 98.6°C)) ISO/DIS 7888 std
TDS Factor	Temperature Coefficient
	15°C, 20°C and 25°C
	Temperature Coefficient
	0.00 to 10.00 %/°C
Probe	TDS Factor
	0.40 to 1.00
	Logging
	HI763133 platinum, four ring conductivity/TDS probe with internal temperature sensor and 1 m (3.3') cable (included)
Memorized Profiles	Measurement Modes
	log-on-demand: 400 samples; lot logging: 5, 10, 30 sec, 1, 2, 5, 10, 15, 30, 60, 120, 180 min (max 1000 samples)
	PC Connectivity
	up to 10
Battery Type / Life	Auto-off
	autorange, autoend, lock and fixed range
	opto-isolated sealed-USB (with HI92000 software and micro-USB cable)
	Logging
Environment	Memorized Profiles
	1.5V AA batteries (4) / approximately 100 hours of continuous use (without backlight), 25 hours with backlight;
	Measurement Modes
	user selectable: 5, 10, 30, 60 min, disabled
Dimensions/Weight	PC Connectivity
	0 to 50°C (32 to 122°F); RH 100% IP67
	Battery Type / Life
	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") / 400 g (14.2 oz.)

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.

Quick connect probe

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

*The 0.000 μ S/cm EC range and 0.1 M Ω -cm resistivity range are not available with the optional 4m cable probe
**Uncompensated temperature reading

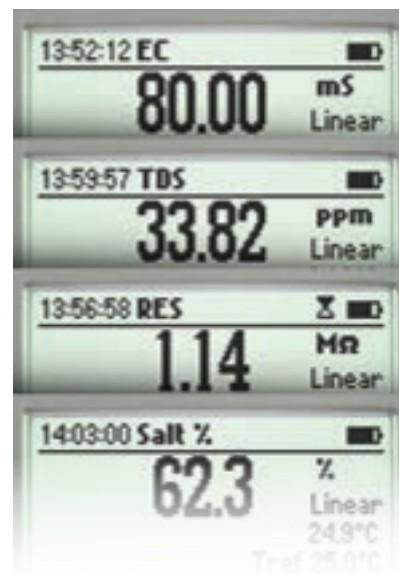
Data Logging

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

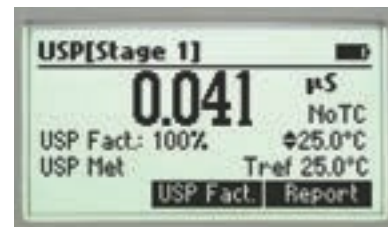
GLP and On-Screen Help

Comprehensive GLP data is directly accessible by pressing the GLP key; the contextual help menu can be accessed to obtain on-screen information and assistance at the touch of a button.

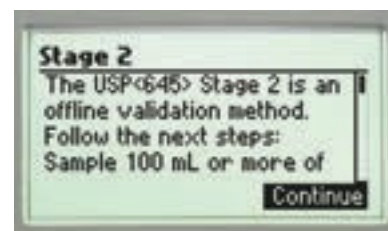
On-screen Features



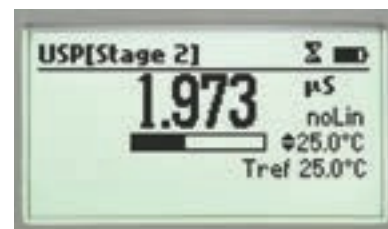
- EC, TDS, resistivity and salinity measurements in one meter



- 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 progress towards meeting stage 2 stability requirements