



HI98192 Professional waterproof meters

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) 1.5 V 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 perform 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

Specifications

HI98192

EC	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 99.99 µS/cm, 100.0 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 (autoranging)
	Resolution	0.001 µS/cm*, 0.01 µS/cm, 0.1 µS/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm
	Accuracy	±1 % of reading (±0.01 µS/cm or 1 digit, whichever is greater)
	Calibration	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)
TDS	Range	0.00 to 99.99 ppm, 100.0 to 999.9 ppm, 1.000 to 9.999 g/L, 10.00 to 99.99 g/L, 100.0 to 400.0 g/L (autoranging)
	Resolution	0.01 ppm, 0.1 ppm, 0.001 g/L, 0.01 g/L, 0.1 g/L
	Accuracy	±1 % of reading (±0.05 ppm or 1 digit, whichever is greater)
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, 1.00 to 9.99 MΩ•cm, 10.0 to 100.0 MΩ•cm* (autoranging)
	Resolution	0.1 Ω•cm, 1 Ω•cm, 0.01 KΩ•cm, 0.1 KΩ•cm, 1 KΩ•cm, 0.01 MΩ•cm, 0.1 MΩ•cm*
	Accuracy	±1 % of reading (±10 Ω or 1 digit, whichever is greater)
Salinity	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
Temperature	Range	-20.0 to 120.0 °C
	Resolution	0.1 °C
	Accuracy	±0.2°C (excluding probe error)
	Calibration	one or two points
Additional specifications	Cell constant setup	0.010 to 10.000
	Temperature compensation	NoTC, linear (-20.0 to 120.0 °C, non linear (0 to 36 °C) 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 platinum, four-ring conductivity/TDS probe with internal temperature sensor and 1 m (3.3') cable (included)
	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)
	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	1.5 V AA batteries (4) / approximately 100 hours of continuous use (without backlight), 25 hours with backlight,
	Auto-off	user selectable: 5, 10, 30, 60 min, disabled
	Environment	0 to 50 °C, RH 100 % IP67
	Dimensions/weight	185 x 93 x 35.2 mm / 400 g

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.

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 µS/cm EC range and 0.1 MΩ•cm resistivity range are not available with the optional 4m cable probe
**Uncompensated temperature reading

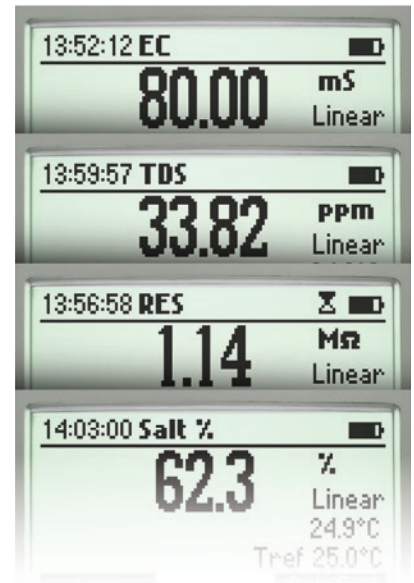
Data logging

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.

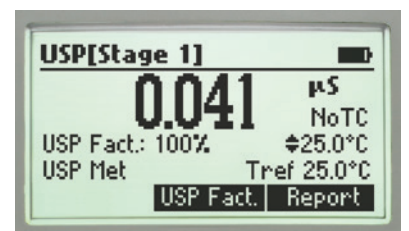
GLP and on-screen help

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.

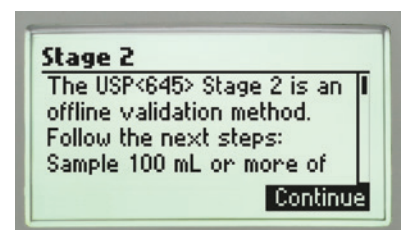
On-screen features



- 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 reading stability progress towards meeting stage 2 requirements