

The HI2300 is a durable benchtop EC/TDS/ Salinity and temperature meter that features a four-ring potentiometric probe, one-point calibration, and a USB port for computer connectivity. The meter is autoranging to choose the appropriate conductivity and total dissolved solids (TDS) range, and can easily be switched to salinity mode to measure from 0.0 to 400.0% NaCl.

# Four-ring EC Probe

The HI2300 meter is supplied with the HI76310 platinum, four-ring EC/TDS probe with a built-in temperature sensor that operates over a wide range from 0.00  $\mu$ S/cm to 500.0 mS/cm\*.

#### Calibration

EC and TDS are calibrated at one point with a choice of six pre-programmed standards. Salinity is calibrated at one point using the HI7037 100% NaCl standard solution.

# Temperature Compensation

Temperature can be compensated for automatically (ATC) or manually (MTC) from -20.0 to 120.0 °C, or it can be disabled for actual conductivity or TDS measurements. The temperature correction coefficient, also referred to as  $\beta$ , is adjustable from 0.00 to 6.00 %/°C.

# Adjustable TDS Factor

The factor that relates conductivity to total dissolved solids is based on the type of sample being measured. For users to get an accurate determination of TDS based on their unique solution, the TDS factor is adjustable from 0.40 to 0.80.

#### **GLP Data**

The calibration data including date, time, standards used, offset and cell constant can be accessed at any time along with the current measurement by selecting the Good Laboratory Practice (GLP) display option.

### Data Logging

The log-on-demand feature allows up to 500 data points to be recorded and exported to a computer for data review and storage.

#### Data Transfer

Data can be transferred to a PC with USB cable and HI92000 software (both sold separately).

# On-screen Features







Last calibration date

Last calibration year

Last calibration time





Cell constant value (K)

Offset value

Range  Resolution  Accuracy	$0.00$ to 29.99 $\mu S/cm; 30.0$ to 299.9 $\mu S/cm; 300$ to 2999 $\mu S/cm; 3.00$ to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm (actual EC)*
	0.01 µS/cm; 0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm
	$\pm1\%$ of reading $\pm$ (0.05 $\mu$ S/cm or 1 digit)
Range Resolution Accuracy	0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.50 to 14.99 g/L (ppt); 15.0 to 100.0 g/L (ppt); up to 400.0 g/L (actual TDS)*, with 0.80 conversion factor
	0.01 mg/L; 0.1 mg/L; 0.01 g/L; 0.1 g/L
	±1% of reading ± (0.03 mg/L or 1 digit)
Range Resolution Accuracy	0.0 to 400.0% NaCl
	0.1%
	±1% of reading
Range Resolution Accuracy	-20.0 to 120.0°C
	0.1°C
	±0.4°C
EC Calibration  NaCl Calibration  Temperature Calibration  Temperature Compensation  Temperature Coefficient  TDS Conversion Factor  Probe  PC Connectivity  Logging  Auto-off  Power Supply  Environment  Dimensions  Weight	automatic, one point with six memorized values (84, 1413, 5000, 12880, 80000, 111800 $\mu\text{S/cm})$
	one point, with HI7037 calibration solution (optional)
	two point, at 0 and 50°C
	automatic or manual from -20.0 to 120.0°C, disabled
	selectable from 0.00 to 6.00%/°C (EC and TDS only)
	selectable from 0.40 to 0.80 (default value: 0.50)
	HI76310 platinum, four ring conductivity/TDS probe with internal temperature sensor and 1 m (3.3') cable (included)
	opto-isolated USB
	log on demand, 500 samples
	after five minutes of non-use (can be disabled)
	12 VDC adapter (included)
	0 to 50°C (32 to 122°F); RH max 95%
	235 x 222 x 109 mm (9.2 x 8.7 x 4.3")
	1.3 kg (2.9 lbs.)
	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy ECalibration Temperature Calibration Temperature Compensation Temperature Coefficient TDS Conversion Factor Probe PC Connectivity Logging Auto-off Power Supply Environment Dimensions

 $<sup>^\</sup>star$  with temperature compensation function disabled (\*\*) Reduced to actual sensor limits



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