

Auto-ranging EC, TDS, NaCl, Temperature Meter

with 4-ring Platinum Probe

4 Parameters in One Professional Instrument

HI 2300 performs EC, TDS (Total Dissolved Solids), percentage of NaCl and °C measurements. The auto-ranging feature for EC and TDS measurements sets the highest possible resolution automatically.

All measurements can be temperature compensated at 20 or 25°C. The Automatic Temperature Compensation (ATC) can also be disabled for measuring the actual conductivity and the compensation coefficient can be user selected. The stability indicator located on the LCD ensures accuracy.

Conductivity readings are performed by applying an alternate current to the 4-ring probe, which creates a variable voltage directly proportional to conductivity.

The GLP feature allows users to store and recall data about system status.

To communicate with the PC use the (optional) HI 92000 communication software. This software provides an exclusive online guide of all the commands available and allows data printing, plotting and exporting.

ORDERING INFORMATION

HI 2300-01 (115V) and **HI 2300-02** (230V) are supplied with HI 76310 conductivity probe, 12 Vdc power adapter and instruction manual.

ELECTRODES

HI 76310 4-ring Pt sensor EC probe with built-in temperature sensor and 1 m (3.3') cable

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 7037L** Salinity solution, 500 mL
- HI 70300L** Electrode storage solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL

ACCESSORIES

- HI 710005** 115 Vac/12 Vdc pwr adapter (US)
- HI 710006** 230 Vac/12 Vdc pwr adapter (EU)
- HI 920010** Cable for PC connection
- HI 92000** Windows® compatible software



- 4-ring EC probe with internal temperature sensor
- Automatic (ATC), Manual (MTC) or No (NoTC) Temperature Compensation
- Auto-ranging
- Good Laboratory Practice
- PC compatible

SPECIFICATIONS		HI 2300
Range	EC	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm (actual EC)*
	TDS	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
	NaCl	0.0 to 400.0%
	Temperature	-9.9 to 120.0°C
Resolution	EC	0.01 µS/cm; 0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm
	TDS	0.01 mg/L; 0.1 mg/L; 1 mg/L; 0.01 g/L; 0.1 g/L
	NaCl	0.1%
	Temperature	0.1°C
Accuracy	EC	±1% of reading ± (0.05 µS/cm or 1 digit)
	TDS	±1% of reading ± (0.03 mg/L or 1 digit)
	NaCl	±1% of reading
	Temperature	±0.4°C (excluding probe error)
Calibration	EC	automatic, 1 point with 6 memorized values (84, 1413, 5000, 12880, 80000, 111800 µS/cm)
	NaCl	1 point, with HI 7037 calibration solution
	Temperature	2-point, at 0 and 50°C (32 and 122°F)
Temperature Compensation		automatic or manual, 0 to 60°C (32 and 140°F)
Temperature Coefficient		selectable from 0.00 to 6.00%/°C (EC and TDS only)
TDS Conversion Factor		selectable from 0.40 to 0.80 (default value: 0.50)
Probe (included)		HI 76310, 4-ring platinum, internal temperature sensor
Auto-off		after 5 minutes of non-use (can be disabled)
Power Supply		12 Vdc power adapter (included)
Environment		0 to 50°C (32 to 122°F); RH max 95%
Dimensions/Weight		240 x 182 x 74 mm (9.4 x 7.2 x 2.9") / 1.1 kg (2.4 lbs.)

* with temperature compensation function disabled