

EC, TDS, NaCl, Temperature



HI 2300 performs EC, TDS (Total Dissolved Solids), percentage of NaCl and temperature measurements. The auto-ranging feature for EC and TDS measurements automatically set the resolution suitable to the tested sample.

All measurements can be temperature compensated at 20 or 25°C and the compensation coefficient is selectable by the user. The automatic temperature compensation can also be disabled for measuring the actual conductivity value. The stability indicator on the LCD ensures accuracy.

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

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

Ordering Information

HI 2300 is supplied complete with HI 76310 probe, 12 Vdc power adapter and instructions.

Specifications

		HI 2300
Range	EC	0.00 to 29.99 $\mu\text{S}/\text{cm}$; 30.0 to 299.9 $\mu\text{S}/\text{cm}$; 300 to 2999 $\mu\text{S}/\text{cm}$; 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 $\mu\text{S}/\text{cm}$; 0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 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	$\pm 1\%$ of reading $\pm (0.05 \mu\text{S}/\text{cm}$ or 1 digit)
	TDS	$\pm 1\%$ of reading $\pm (0.03 \text{mg}/\text{L}$ or 1 digit)
	NaCl	$\pm 1\%$ of reading
	Temperature	$\pm 0.4^\circ\text{C}$
Calibration	EC	automatic, 1 point with 6 memorized values (84, 1413, 5000, 12880, 80000, 111800 $\mu\text{S}/\text{cm}$)
	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 lb.)

* with temperature compensation function disabled

Accessories

HI 76310	4-ring Pt sensor EC/TDS probe with built-in temperature sensor and 1 m (3.3') cable	HI 7035L	111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 7030L	12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 7039L	5000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 7037L	100% NaCl standard solution, 500 mL bottle
HI 7033L	84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710005	115 Vac/12 Vdc power adapter
HI 7034L	80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
		HI 920010	Cable for PC connection
		HI 92000	Windows® compatible software