



## Waterproof EC/TDS/Temperature Meters with Amperometric Technology

HI 99300 and HI 99301 are two innovative meters that combine measurements of conductivity, TDS (Total Dissolved Solids) and temperature. The housing is water-resistant and rated for IP 67 conditions.

The meters are provided with advanced features, designed for quick and easy field operation.

The multi-functional HI 76306 probe measures EC/TDS and temperature in one rugged unit. EC (or TDS) and temperature readings are displayed simultaneously. Moreover, symbols and messages on the LCD indicate the meter status and guide the user through operations.

At start-up, the meter shows the remaining battery percentage and when a low battery condition is detected, a battery symbol appears on the LCD to advise the user that only a few hours of working time is left.

The meters are also provided with BEPS (Battery Error Prevention System), which turns the meter off when the battery level is too low, to assure reliable readings. Calibration is a single point automatic procedure and measurements are automatically compensated for temperature variations. The compensation coefficient and the EC/TDS conversion factor are user-selectable. All settings and calibration data remain in memory when changing batteries.

### Specifications

	HI 99300	HI 99301
Range	EC	0 to 3999 $\mu\text{S}/\text{cm}$
	TDS	0.00 to 20.00 mS/cm
	temperature	0.00 to 10.00 ppt (g/L)
Resolution	EC	0.01 mS/cm
	TDS	0.01 ppt (g/L)
	temperature	0.1°C / 0.1°F
Accuracy (@20°C)	EC	$\pm 2\%$ F.S.
	TDS	$\pm 2\%$ F.S.
	temperature	$\pm 0.5^\circ\text{C} / \pm 1^\circ\text{F}$
TDS Factor (CONV)	adjustable, from 0.45 to 1.00 with 0.01 step (default 0.50)	
Calibration	automatic, 1 point at 1382 ppm (CONV 0.5) or at 1500 ppm (CONV 0.7) or at 1413 $\mu\text{S}/\text{cm}$ (others)	automatic, 1 point at 6.44 ppt (CONV 0.5) or at 9.02 ppt (CONV 0.7) or at 12880 $\mu\text{S}/\text{cm}$ (others)
	Temperature Compensation	automatic, 0 to 60°C (32 to 140°F) with $\beta$ adjustable from 0.0 to 2.4%/°C with 0.1% step
Probe	HI 76306, EC/TDS/temperature, with DIN connector and 1 m (3.3') cable (included)	
Battery Type / Life	4 x 1.5V AAA / approx. 500 hours of continuous use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions	143 x 80 x 38 mm (5.6 x 3.1 x 1.5)	
Weight	210 g (7.4 oz.)	

### Accessories

HI 76306	EC/TDS/temperature probe with 1 m (3.3') cable	HI 70442P	1500 ppm calibration solution, 20 mL sachet, 25 pcs.
HI 70030P	12880 $\mu\text{S}/\text{cm}$ calibration solution, 20 mL sachet, 25 pcs.	HI 70038P	6.44 ppt calibration solution, 20 mL sachet, 25 pcs.
HI 70031P	1413 $\mu\text{S}/\text{cm}$ calibration solution, 20 mL sachet, 25 pcs.	HI 710007	Shockproof rubber boot, blue
HI 70032P	1382 ppm calibration solution, 20 mL sachet, 25 pcs.	HI 710008	Shockproof rubber boot, orange

### Ordering Information

HI 99300 is supplied complete with HI 76306 probe with 1 m (3.3') cable, batteries, rugged carrying case and instructions.

HI 99301 is supplied complete with HI 76306 probe with 1 m (3.3') cable, batteries, rugged carrying case and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For accessories, see section U.