



## HI99300 • HI99301

# Portable EC Meters

## EC/TDS and Temperature

- **ATC**
  - Automatic temperature compensation
- **Methods**
  - Measures EC/TDS and Temperature
- **BEPS**
  - Alerts the user when the battery is low
- **Battery indicator**
  - Battery life indicator at startup
- **One-point calibration**
  - One-point EC/TDS calibration
- **Waterproof**

The HI99300 and HI99301 are portable EC/TDS and temperature meters. HI99300 measures low range conductivity in  $\mu\text{S}/\text{cm}$  and TDS in ppm while the HI99301 measures high range conductivity in  $\text{mS}/\text{cm}$  and TDS in ppt. Both instruments are housed in a case rated for IP67 conditions.

These instruments offer single point, automatic calibration with automatic temperature compensated measurements. The compensation coefficient and EC/TDS conversion factor are user-selectable from 0.45 to 1.00 and temperature coefficient is selectable from 0.0 to 2.4%/°C.

These instruments easily fit in the palm of your hand and the bottom probe connection ensures the electrode cable doesn't get in your way. The large, multi-level LCD displays the primary reading, temperature and calibration guides simultaneously. Symbols and messages on the LCD indicate meter status and guides users through operations.

At start-up, the meter shows the remaining battery percentage; 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 HI76306 EC/TDS and temperature probe resists clogging and is easy to clean.

Specifications		HI99300	HI99301
EC	Range	0 to 3999 $\mu\text{S}/\text{cm}$	0.00 to 20.00 $\text{mS}/\text{cm}$
	Resolution	1 $\mu\text{S}/\text{cm}$	0.01 $\text{mS}/\text{cm}$
	Accuracy	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.
TDS	Range	0 to 2000 ppm (mg/L)	0.00 to 10.00 ppt (g/L)
	Resolution	1 ppm (mg/L)	0.01 ppt (g/L)
	Accuracy	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.
Temperature	Range	0.0 to 60.0°C/32.0 to 140.0°F	0.0 to 60.0°C/32.0 to 140.0°F
	Resolution	0.1°C/0.1°F	0.1°C/0.1°F
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$	$\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$
Additional Specifications	Calibration	automatic, one point at 1413 $\mu\text{S}/\text{cm}$ , 1382 ppm (CONV 0.5) or 1500 ppm (CONV 0.7)	automatic, one point at 12.88 $\text{mS}/\text{cm}$ , 6.44 ppt (CONV 0.5) or 9.02 ppt (CONV 0.7)
	EC/TDS 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	
	EC/TDS Factor	adjustable from 0.45 to 1.00 with 0.01 step (default 0.50)	
	Probe	HI76306 EC/TDS probe with internal temperature sensor, DIN connector and 1 m (3.3') cable (included)	
	Battery Type / Life	1.5V AAA (3) / approximately 500 hours of continuous use, auto-off after eight minutes of non-use	
	Environment	0 to 50°C (32 to 122°F); RH max. 100%	
	Dimensions	152 x 58 x 30 mm (6.0 x 2.3 x 1.2")	
	Weight	205g (7.2 oz.)	
Ordering Information		HI99300 and HI99301 are supplied with HI76306 EC/TDS probe, batteries, instructions and rugged carrying case.	



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