

Combination Meters: HI 991300

Waterproof pH/EC/TDS/Temp Meter



- 4 parameters with a single probe
- Stability indicator and hold feature
- Over 1500 hours of battery life

HANNA instruments offers you a choice of 2 meters to meet your exacting requirements. HI 991300 and HI 991301 offer you the combination of pH, electro-conductivity, total dissolved solids and temperature measurements. To increase precision, you can select the meter which will work best with your range of conductivity, from purified to brackish waters. There are only 2 buttons, yet you can select from a range of calibration buffers and even the temperature scale (°C or °F) most familiar to you. The housing is waterproof and rated for IP 67 conditions. The multi-parameter probe, HI 1288, includes pH, EC/TDS and temperature in one convenient, rugged handle. Other user selectable features include different TDS factors from 0.45 to 1.00, and a range of temperature coefficients (β) from 0.0 to 2.4% for greater consistency and reproducibility. Also selectable are standardized buffer recognition values. To ensure against interference from transient electrical noise, a solid-state amplifier is integrated into the probe.

HI 991300 is supplied complete with pH/EC/TDS/T HI 1288 probe, with 1 m (3.3 ') cable, batteries, rugged carrying case and instructions.

Available Accessories:

HI 1288	pH/EC/TDS/Temp probe
HI 710004	Soft carrying case
HI 710007	Blue shockproof rubber boot
HI 710008	Orange shockproof rubber boot
HI 70030P	12880 μS cal. Sol. (25 x 20 mL)
HI 70038P	6.44 ppt cal. Sol. (25 x 20 mL)
HI 77100P	1413 μS & pH 7 sol., 20 mL
HI 77200P	1500 ppm & pH 7 sol. 20 mL
HI 77300P	1382 ppm & pH 7 sol. 20 mL
HI 77400P	pH 4 & 7 sol., 20 mL

Specifications:

Range	0.00 to 14.00 pH; 0 to 3999 μS/cm EC; 0 to 2000 ppm TDS; 0.0 to 60.0°C or 32.0 to 140.0°F
Resolution	0.01 pH; 1 μS/cm EC; 1 ppm TDS; 0.1°C or 0.1°F
Accuracy (@20°C/68°F)	±0.01 pH; ±2% F.S. EC/TDS; ±0.5°C or ±1.0°F
Typical EMC Deviation	±0.03 pH; ±2% F.S. EC/TDS; ±0.5°C or ±1.0°F
EC/TDS Ratios	Selectable from 0.45 to 1.00 (0.50 default); step is of 0.01 unit
pH Calibration	Automatic 1 or 2 points with 2 sets of memorized standard buffers
EC/TDS Calibration	Automatic 1 point at 1382 ppm
Temp. Compensation	Automatic from 0 to 60°C pH; Automatic from 0 to 60°C with a selectable β from 0.0 to 2.4% per °C EC/TDS
Probe (included)	HI 1288 pH/EC/TDS probe with built-in temperature sensor, DIN connector and 1 m (3.3 ') cable
Battery Type / Life	4 x 1.5V AAA / approximately 500 hours of continuous use
Environment	0 to 50°C (32 to 122 °F); RH 100%
Dimensions	143 x 80 x 38 mm (5.6 x 3.1 x 1.5 ")
Weight	320g (11.3 oz.)