

HI 991300



HI 991301



HI 991000

Welcome the new generation of unparalleled versatility and simplicity in pH, EC, and TDS measurements. Hanna offers you a choice of 3 meters to meet your exacting requirements. The HI 991300 and HI 991301 offer you the combination of pH, Electro-Conductivity, total dissolved solids and temperature measurements. To increase the 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-functional probe includes pH, EC 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.

When your measurement needs require only pH and temperature, you can choose the HI 991000. This meter has the same user selectable features such as temperature scale and standardized buffer recognition values.

This new series of meters all use an enhanced LCD, which simultaneously displays pH or EC/TDS and temperature. Additional graphics for ATC and measurement stability are also shown on the display. A convenient wrist strap protects your meter from accidental dropping and a shock-proof rubber boot can be added for optimum protection. Measuring pH and EC has never been easier.

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Range	pH	0.00 to 14.00 pH	0.00 to 14.00 pH	0.00 to 14.00 pH
	EC/TDS	-	0 to 3999 μS/cm (EC); 0 to 2000 ppm (TDS)	0.00 to 19.99 mS/cm (EC); 0.00 to 10.00 ppt (TDS)
	Temperature	0.0 to 60.0°C (32° to 140°F)	0.0 to 60.0°C (32 to 140°F)	0.0 to 60.0°C (32 to 140°F)
Resolution	pH	0.01 pH	0.01 pH	0.01 pH
	EC/TDS	-	1 μS/cm; 1 ppm	0.01 mS/cm; 0.01 ppt
	Temperature	0.1°C / 0.1°F	0.1°C / 0.1°F	0.1°C / 0.1°F
Accuracy (@20°C)	pH	±0.01 pH		±0.01 pH
	EC/TDS	-		±2% Full Scale (EC/TDS)
	Temperature	±0.5°C (±1.0°F)		±0.5°C (±1.0°F)
Typical EMC Deviation	pH	±0.3 pH		±0.3 pH
	EC/TDS	-		±2% Full Scale (EC/TDS)
	Temperature	±1°C (±1.0°F)		±1°C (±1.0°F)
EC/TDS Ratios		-	Selectable from 0.45 to 1.00 ppm=1 μS	
pH Calibration		Automatic 1 or 2 points with 2 sets of memorized buffers		Automatic 1 or 2 points with 2 sets of memorized buffers
EC/TDS Calibration	EC	-	Automatic	Automatic
	TDS	-	1413 μS/cm	12880 μS/cm
Temperature Compensation		Automatic from 0 to 60°C (32 to 140°F)	pH: Automatic from 0 to 60°C; EC/TDS; Automatic from 0 to 60°C with selectable β of 0.0 to 2.4% / °C	
Electrode / Probe		HI 1291 pH electrode with internal temperature sensor and amplifier, DIN connector and 1 m (3.3') cable (included)	HI 1288 pH/EC/TDS probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable (included)	
Battery Life / Type		4 x 1.5V AAA / approximately 500 hours of continuous use w/ auto shut-off (after 8 minutes)		
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)		