







## Waterproof pH/EC/TDS/Temperature Meter with Advanced Features



**Specifications** 

HI 991300	HI 991301	
0.00 to 14.00 pH		
0 to 3999 µS/cm	0.00 to 20.00 mS/cm	
0 to 2000 ppm (mg/L)	0.00 to 10.00 ppt (g/L)	
0.0 to 60.0°C (32.0 to 140.0°F)		
0.01 pH		
1 μS/cm	0.01 mS/cm	
1 ppm	0.01 ppt	
0.1°C (0.1°F)		
±0.01 pH		
±2%	% F.S.	
±29	% F.S.	
±0.5°C (±1.0°F)		
selectable 0.45 to 1.00 with 0.01 increments (default 0.50)		
automatic at 1 or 2 points with 2 sets of memorized standard buffers (pH 4.01/7.01/10.01 or pH 4.01/6.86/9.18)		
		automatic, 1 point at 1382 ppm
(CONV 0.5) or at 1500 ppm (CONV 0.7)	(CONV 0.5) or at 9.02 ppt (CONV 0.7	
or at 1413 µS/cm (others)	or at 12880 $\mu$ S/cm (others)	
automatic		
automatic with selectable $\beta$ from 0.0 to 2.4%/°C with 0.1 increments		
HI 1288, pH/EC/TDS/T, DIN connector, 1 m (3.3') cable (included)		
	0.00 to 0 to 3999 $\mu$ S/cm 0 to 2000 ppm (mg/L) 0.0 to 60.0°C ( $^{\circ}$ 0.0 to 60.0°C ( $^{$	

## Accessories

Battery Type / Life

Dimensions / Weight

**Environment** 

HI 1288 HI 710007	pH/EC/TDS/T probe Shockproof rubber boot, blue	HI 77100P	1413 $\mu$ S/pH 7 calibration solution (10 x 20 mL each)
HI 710008	Shockproof rubber boot, oran-	HI 77200P	1500 ppm/pH 7 calibration
HI 70030P	ge 12880 $\mu$ S calibration solution	HI 77300P	solution (10 x 20 mL each) 1382 ppm/pH 7 calibration
LII 70000D	(25 x 20 ml)	000	solution (10 x 20 mL each)
HI 70038P	6.44 ppt calibration solution (25 x 20 ml)	HI 77400P	pH 4; pH 7 calibration solution (5 x 20 mL each)

4 x 1.5V AAA / approximately 500 hours of continuous use

0 to 50°C (32 to 122°F); RH max 100%

150 x 80 x 36 mm (5.9 x 3.1 x 1.4") / 210g (7.4 oz.)

For a comlete range of calibration, cleaning and maintenance solutions, see section F. For probes, see section E. For other accessories, see section U.

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 ( $\beta$ ) 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.

## **Ordering Information**

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.

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