

HI 991300 • HI 991301

pH/EC/TDS/Temperature Meters

- **Automatic one or two point calibration**
- **Multi-level LCD display**
The meters display the current measurement simultaneously with the current temperature.
- **On-screen tutorial messages for calibration and setup**
- **HOLD**
The HOLD button freezes readings on the display for manual recording
- **Automatic Temperature Compensation**
- **BEPS**
(Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings
- **Measure pH, EC/TDS and temperature with one probe**
- **Battery % displayed on startup**
- **Easy to clean and keep clean**

HI 991300 and HI 991301 have been designed to offer you pH, conductivity, total dissolved solids and temperature measurements all in a slim, lightweight, portable unit. From purified to brine water measurement, you can select the meter which will work best with your range of conductivity for greater precision.

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 HI 1288 pre-amplified multiparameter probe features an easy to clean sensor and a cloth junction that can be pulled longer to increase the life of the probe. To ensure against interference from transient electrical noise, a solid-state amplifier is integrated into the HI 1288.

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. Standardized buffer recognition values are also selectable.

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.





HI 1288 Multiparameter Probe and Protective Boot

The HI 1288 multiparameter probe includes pH, EC/TDS and temperature measurement in one convenient, rugged handle. A solid-state pre-amplifier is integrated into the probe to ensure against interference from transient electrical noise.

- Amperometric conductivity probe
- Built-in temperature sensor
- Easy to clean

The sensor is easy to clean and keep clean by design

- pH sensor with extendable cloth junction

The HI 1288 multiparameter probe features a cloth junction that can be pulled longer, effectively increasing the life of the probe

ORDERING INFORMATION

HI 991300 is supplied with HI 1288 multiparameter probe, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 70031 1413 µS/cm calibration solution sachet, HI 70032 1382 mg/L (ppm) calibration solution sachet, HI 700661 electrode cleaning solution sachet, batteries, instructions and rugged carrying case.

HI 991301 is supplied with HI 1288 multiparameter probe, HI 70004 pH 4.01 buffer sachet, HI 70007 pH 7.01 buffer sachet, HI 70030 12880 µS/cm calibration solution sachet, HI 70038 6.44 g/L (ppt) calibration solution sachet, HI 700661 electrode cleaning solution sachet, batteries, instructions and rugged carrying case.

ELECTRODES

HI 1288 PVC body, pre-amplified multiparameter probe with internal temperature sensor, DIN connector and 1.2 m (3.93') cable

SOLUTIONS

- HI 7004L** pH 4.01 buffer solution, 500 mL
- HI 7007L** pH 7.01 buffer solution, 500 mL
- HI 7010L** pH 10.01 buffer solution, 500 mL
- HI 7030L** 12880 µS/cm (µmho/cm) calibration solution, 500 mL
- HI 7031L** 1413 µS/cm (µmho/cm) calibration solution, 500 mL
- HI 7032L** 1382 ppm (mg/L) calibration solution, 500 mL
- HI 7038L** 6.44 ppt (g/L) calibration solution, 500 mL
- HI 70442L** 1500 ppm calibration solution, 500 mL
- HI 70300L** Electrode storage solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL

ACCESSORIES

- HI 710023** Orange protective rubber boot
- HI 710024** Blue protective rubber boot

SPECIFICATIONS		HI 991300	HI 991301								
Range	pH	0 to 14.00 pH									
	EC	0 to 3999 µS/cm	0.00 to 20.00 mS/cm								
	TDS	0 to 2000 ppm (mg/L)	0.00 to 10.00 ppt (g/L)								
	Temperature	0.0 to 60.0°C/32.0 to 140.0°F									
Resolution	pH	0.01 pH									
	EC	1 µS/cm	0.01 mS/cm								
	TDS	1 ppm (mg/L)	0.01 ppt (g/L)								
	Temperature	0.01°C/0.1°F									
Accuracy (@20°C/68°F)	pH	±0.01 pH									
	EC/TDS	±2% F.S.									
	Temperature	±0.5°C/±1°F									
pH Calibration	automatic, one or two point calibration with two sets of memorized buffers (Standard 4.01, 7.01, 10.01 or NIST 4.01, 6.86, 9.18)										
EC/TDS Calibration	<table border="0"> <tr> <td>automatic one point at:</td> <td>automatic one point at:</td> </tr> <tr> <td>1382 ppm (CONV=0.5) or</td> <td>6.44 ppt (CONV=0.5) or</td> </tr> <tr> <td>1500 ppm (CONV=0.7) or</td> <td>9.02 ppt (CONV=0.7) or</td> </tr> <tr> <td>1413 µS/cm</td> <td>12880 µS/cm</td> </tr> </table>			automatic one point at:	automatic one point at:	1382 ppm (CONV=0.5) or	6.44 ppt (CONV=0.5) or	1500 ppm (CONV=0.7) or	9.02 ppt (CONV=0.7) or	1413 µS/cm	12880 µS/cm
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1413 µS/cm	12880 µS/cm										
Temperature Compensation	pH	automatic									
	EC/TDS	automatic with β selectable from 2.4%/°C with 0.1 increments									
TDS Conversion Factor	selectable from 0.45 to 1.00 with 0.01 increments (default 0.50)										
Probe (included)	HI 1288 PVC body, pre-amplified multiparameter probe with internal temperature sensor, DIN connector and 1.2 m (3.93') cable										
Battery Type/Life	1.5V AAA (3) /approximately 500 hours of continuous use. auto-off after 8 minutes of inactivity										
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.)										

For a complete list of Solutions, see the end of pH Section 3 and Conductivity Section 6.