



HI 991300 and HI 991301

pH/EC/TDS MULTIPARAMETER METERS



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HI 991300 and HI 991301 have been designed to offer you pH, electrolytic-conductivity, total dissolved solids and temperature measurements all in a slim, lightweight, portable unit. For greater precision in your application, both models are available, each with different conductivity ranges. From purified to brine waters, just choose the model for your range of measurement.

The HI 1288 pre-amplified multiparameter probe features an easy to clean flat tip sensor and a cloth junction that can be pulled longer to increase the life of the probe.

User selectable features include different TDS factors from 0.45 to 1.00, and a range of temperature coefficients (B) from 0.0 to 2.4% for greater consistency and reproducibility.

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.

FEATURES

- **Waterproof to IP 67**
- **Multi-level LCD display**
The meters display the current measurement simultaneously with the current temperature. A quick-guide is also displayed to aid users in instrument operation.
- **HOLD**
The Hold button freezes readings on the display for manual recording.
- **Automatic Temperature Compensation**
- **Automatic 1 or 2 point calibration**
- **BEPS**
BEPS (Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings.
- **Battery % displayed on startup.**
- **Heavy-duty**
The enclosure of these waterproof meters are made of tough ABS plastic for harsh environments.
- **Easy to clean and keep clean**



B.E.P.S. ±
Battery Error
Prevention System

2 YEAR
WARRANTY

ISO 9001:2000
CERTIFIED
COMPANY

WE DESIGN, MANUFACTURE, SUPPLY AND SUPPORT ALL OF OUR PRODUCTS.

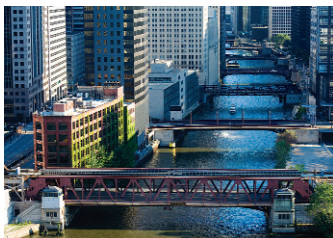
THAT'S 360° VALUE

Over the past 30 years, **HANNA** has never failed to design fresh and innovative products and the new HI 991300 and HI 991301 are no exception. We are excited to introduce such high accuracy and ease of use in a compact, modern design that fits right in your hand.

HANNA is the largest family-owned manufacturer of analytical instrumentation in the world. The HI 991300 and HI 991301 are manufactured in our European state-of-the-art ISO 9001:2000 production facility and is CE compliant to EN 61326-1 and EN 61010-1 standards.

When you buy a **HANNA** product, you're not only buying the best value for your money, but you're also adding the benefit of **HANNA's** unsurpassed customer service and post-sale technical support.

Multiparameter Probe & Starter Solutions Included!



HI 1288 MULTIPARAMETER PROBE

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.



- **Extendable Cloth Junction**

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

- **Easy to Clean**

The flat tip sensor is easy to clean and keep clean by design.



- **Protective Rubber Boot**

The optional protective rubber boot helps protect your meter

Shown with protective boot (optional)

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)
	Temp.	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)
	Temp.	0.01°C/0.1°F	
Accuracy (@20°C)	pH	±0.01 pH	
	EC/TDS	±2% F.S.	
	Temp.	±0.5°C/±1°F	
Temperature Compensation	pH	Automatic	
	EC/TDS	Automatic with b selectable from 2.4%/°C with 0.1 increments	
pH Calibration		Automatic 1 or 2 point calibration with 2 sets of memorized buffers (4.01, 7.01, 10.01 or 4.01, 6.86, 9.18)	
EC/TDS Calibration		Automatic 1 point at:	
		1413 µS/cm	12.88 mS/cm
		or 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)
TDS Conversion Factor		Selectable from 0.45 to 1.00 with 0.01 increments (default 0.50)	
Probe (included)		HI 1288 pH/EC/TDS/temperature with DIN connector and 1 m (3.3') cable	
Battery Type		(3) 1.2V AAA	
Battery Life		Approximately 200 hours of continuous use	
Auto-off		After 8 minutes of non-use	
Environment		0 to 50°C (32 to 122°F); RH max. 100%	
Dimensions		150 x 58 x 29 mm (5.9 x 2.8 x 1.1")	
Weight		205g (7.2 oz.)	

ORDERING INFORMATION

HI 991300 and **HI 991301** are supplied with HI 1288 pH/EC/TDS/temperature probe with DIN connector and 1 m (3.3') cable, calibration & cleaning solution sachets, (3)1.2V AAA batteries and instructions.

ELECTRODES

HI 1288 Pre-amplified pH/EC/TDS probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable

SOLUTIONS

HI 7004L pH 4.01 buffer solution, 500 mL

HI 7006L pH 6.86 buffer solution, 500 mL
HI 7007L pH 7.01 buffer solution, 500 mL
HI 7009L pH 9.01 buffer solution, 500 mL
HI 7010L pH 10.01 buffer solution, 500 mL
HI 7030L 12880 $\mu\text{S}/\text{cm}$ ($\mu\text{mho}/\text{cm}$) solution, 500 mL
HI 7031L 1413 $\mu\text{S}/\text{cm}$ ($\mu\text{mho}/\text{cm}$) solution, 500 mL
HI 7032L 1382 ppm (mg/L) solution, 500 mL
HI 7038L 6.44 ppt (g/L) solution, 500 mL
HI 70442L 1500 ppm solution, 500 mL
HI 70300L Electrode storage solution, 500 mL
HI 7061L Electrode cleaning solution, 500 mL

Recommended Operating Temperature
20 to 40°C (66 to 104°F)



SPECIFICATIONS		HI 1288
Description	Spare electrode	
Reference	Single, Ag/AgCl	
Junction / Flow Rate	Cloth	
Electrolyte	Gel	
Max Pressure	1 bar	
Range	pH: 0 to 13; EC T: 0 to 60°C (32 to 140°F)	
Tip /Shape	Spheric (dia: 8.5 mm)	
Temperature Sensor	Yes	
Amplifier	Yes	
Body Material	PVC	
Connection/Cable	DIN/7-pole; 2 m (6.6')	
Recommended Use	General purpose, water treatment, agriculture, boilers, cooling towers	

HANNA[®]
instruments
With Great Products, Come Great Results™