

COMBINED pH AND CONDUCTIVITY METERS

Waterproof instruments that offer pH, conductivity, TDS (Total Dissolved Solids) and temperature readings in one easy-to-use meter

These instruments provide full-scale pH readings and allow the user to select the temperature display in Fahrenheit or Centigrade. Model HI991300C measures low range conductivity and TDS, while model HI991301C measures high range.

Both models are housed in a compact waterproof, IP67-rated case. Other features include automatic calibration, automatic temperature compensation, selectable EC/TDS conversion factor, adjustable conductivity temperature coefficient, stability indicator, Battery Error Prevention System and battery

strength percentage gauge. All functions are accomplished with only two buttons.

When the instrument is turned on, the percentage of battery power remaining is displayed, preventing unexpected battery failures in the field. All calibration and user settings are saved, even during battery replacement.

The HI1288 multifunctional industrial probe houses the pH and conductivity sensor along with an integrated solid state amplifier to eliminate noise and interference.

For added protection, the probe is housed in a rugged plastic sheath with a reinforced rubber cable and steel DIN connector.



Models HI991300C and HI991301C are supplied with probe, batteries, solution packets and instructions in a hard carrying case.

Specifications

MODEL	HI991300C	HI991301C
pH Range	0-14	0-14
Conductivity Range	0-3999 μ S/cm	0-19.99 mS/cm
TDS Range	0-2000 ppm	0-10 ppt
Temperature Range	32-140°F/0-60°C	32-140°F/0-60°C
pH Resolution	.01	.01
Conductivity Resolution	1 μ S/cm	.01 mS/cm
TDS Resolution	1 ppm	.01 ppt
Temperature Resolution	.1°F/.1°C	.1°F/.1°C
pH Accuracy at 68°F/20°C	\pm .01	\pm .01
Conductivity and TDS Accuracy at 68°F/20°C	\pm 2% full scale	\pm 2% full scale
Temperature Accuracy at 68°F/20°C	\pm 1°F/ \pm .5°C	\pm 1°F/ \pm .5°C
EC and TDS Ratios	Selectable between .45, .5 (default), .55, .60, .65, .68, .70, .75; 1 ppm = 1 μ S/cm	
pH Calibration	Automatic at one or two points (available buffers: pH 4.01/7.01/10.01 or pH 4.01/6.86/9.18)	
EC and TDS Calibration	One point automatic at 1382 ppm (with conversion factor at .5), 1500 ppm (with conversion factor at .7), 1413 μ S/cm (others)	One point automatic at 6.44 ppt (with conversion factor at .5), 9.02 ppt (with conversion factor at .7), 12880 μ S/cm (others)
Probe (reference HI1288)	pH/EC/TDS with temperature sensor, DIN connector and 39"1m cable included	
Temperature Compensation	pH: automatic from 32-140°F/0-60°C; EC/TDS: automatic from 32-140°F/0-60°C with selectable β of .0, 1.8, 1.9 (default), 2, 2.1, 2.2, 2.3, 2.4% per °C	
Battery Type/Life	Four AAA 1.5V batteries with 500 hours of continuous use	
Environment	32-122°F/0-50°C, with relative humidity of 100%	
Physical Characteristics	11.3 oz/320g; 5.6x3.1x1.5"/14.3x8x3.8cm	
Optional Accessories	HI70004P 25 calibration packets pH 4.01 (.68 oz./20 mL each) HI70007P 25 calibration packets pH 7.01 (.68 oz./20 mL each) HI70010P 25 calibration packets pH 10.01 (.68 oz./20 mL each) HI70031P 25 calibration packets conductivity 1413 μ S/cm (.68 oz./20 mL each) HI70030P 25 calibration packets conductivity 12880 μ S/cm (.68 oz./20 mL each) HI1288 replacement probe for model HI991300C and HI991301C	