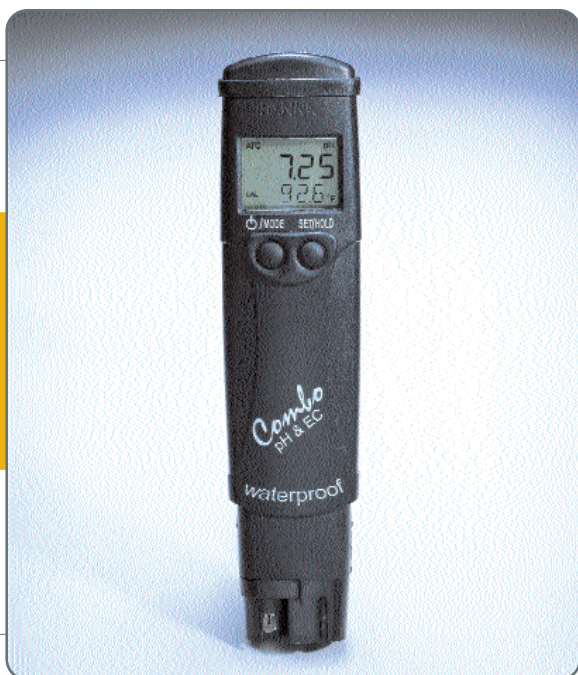


pH/EC/TDS/Temperature Testers Beyond Expectations!



Features ...

The NEW HI 98129 and HI 98130 **Combo** waterproof testers offer high accuracy pH, EC/TDS and temperature measurements all in a single tester! No more switching between meters for your routine measurements. The waterproof **Combo** (it even floats) has a large easy-to-read, dual-level LCD and automatic shut off. pH and EC/TDS readings are automatically compensated for the effects of temperature (ATC). This technologically advanced tester has a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode that resists contamination by salts and other substances. This gives these meters a greatly extended life. Your tester no longer needs to be thrown away when the pH sensor is exhausted. The EC/TDS conversion factor is user selectable as well as the temperature compensation coefficient (β). Fast, efficient, accurate and portable, the **Combo** pH, EC/TDS and temperature tester brings you all the features you've asked for and more!

... and Benefits

Specifications		HI 98129	HI 98130
Range	EC	0 to 3999 μ S/cm	0.00 to 20.00 mS/cm
	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
	pH	0.00 to 14.00	0.00 to 14.00
	Temperature	0.0 to 60.0°C or 32.0 to 140.0°F	0.0 to 60.0°C or 32.0 to 140.0°F
Resolution	EC	1 μ S/cm	0.01 mS/cm
	TDS	1 ppm	0.01 ppt
	pH	0.01	0.01
	Temperature	0.1°C or 0.1°F	0.1°C or 0.1°F
Accuracy (@20°C/68°F)	EC/TDS	$\pm 2\%$ F.S.	
	pH	± 0.05	
	Temperature	$\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	
Typical EMC Deviation	EC/TDS	$\pm 2\%$ F.S.	
	pH	± 0.02	
	Temperature	$\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	
Temperature Compensation		pH: automatic; EC/TDS: with $\beta=0.0$ to $2.4\%/^\circ\text{C}$	
Calibration		Automatic, 1 or 2 points with 2 sets of memorized buffers	
		Automatic at 1 point	
EC/TDS Conversion Factor		0.45 to 1.00 (CONV)	
Electrode		HI 73127 pH electrode (included)	
Environment		0 to 50°C (32 to 122°F); RH 100%	
Battery Type / Life		4 x 1.5V with BEPS (battery error prevention system) / approx. 100 hours of continuous use; auto shut-off after 8 minutes of non-use	
Dimensions		163 x 40 x 26 mm (6.4 x 1.6 x 1.0")	
Weight		85 g (3.0 oz)	



**Easily Replaceable
pH Electrode!**



Exposed temperature sensor provides fast response time and its proximity to the pH and conductivity electrodes guarantees more accurate temperature compensated readings.

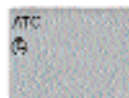


Graphite conductivity electrode provides greater accuracy because it does not get dirty from salt deposits in the solution.



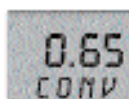
Battery Life Percentage Illuminated

When turned on, the LCD indicates the percentage of battery power remaining.



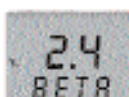
Stability & ATC Indicators

Stability of pH, EC and TDS measurements is indicated by the timer symbol. The ATC symbol is shown when temperature compensation is active.



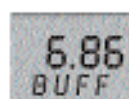
Adjustable TDS Ratio

For Total Dissolved Solids, measurements choose a conversion factor between 0.45 and 1.00 in increments of 0.01.



Adjustable Temperature Compensation Factor

Select any β (BETA) value between 0.0 and 2.4%/°C in increments of 0.1.



Calibrate to Standard or N.I.S.T. Buffers

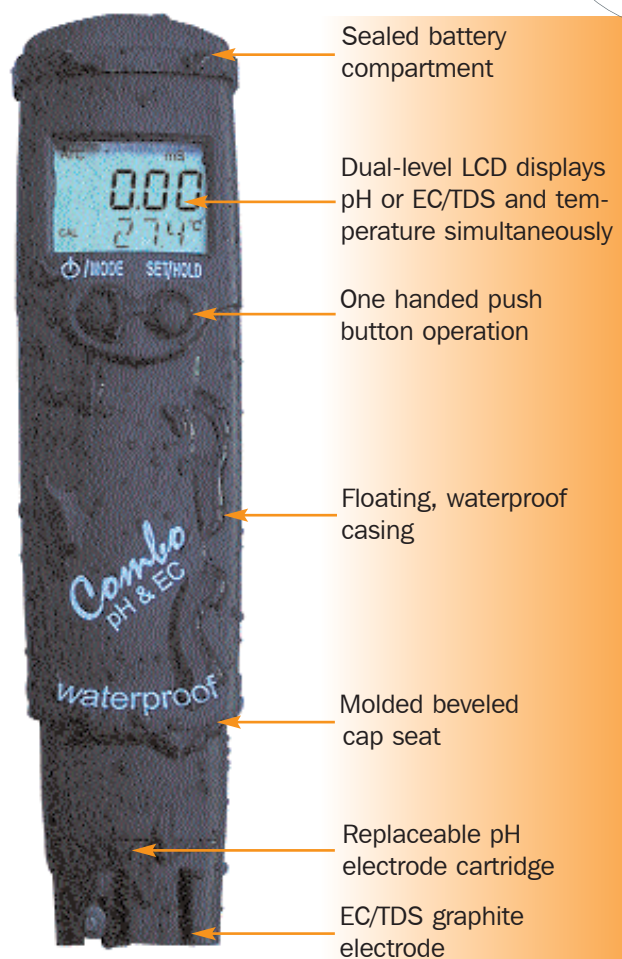
Two sets of pH buffers for automatic calibration at 1 or 2 points:

pH 4.01/7.01/10.01 or
pH 4.01/6.86/9.18

The *Combo's* stainless steel connector means there are no pins to bend or break.



The replaceable pH electrode of the *Combo* has a cloth junction which can be extended to rejuvenate the electrode.



Sealed battery compartment

Dual-level LCD displays pH or EC/TDS and temperature simultaneously

One handed push button operation

Floating, waterproof casing

Molded beveled cap seat

Replaceable pH electrode cartridge

EC/TDS graphite electrode

Ordering Information

HI 98129 (*Combo*) is supplied complete with cap, electrode removal tool, 4 x 1.5V batteries and instructions.

HI 98130 (*Combo*) is supplied complete with cap, electrode removal tool 4 x 1.5V batteries and instructions.

Accessories

HI 73127	Replaceable pH electrode
HI 73128	Electrode removal tool
HI 7061M	Electrode cleaning solution, 230 mL bottle
HI 70300M	Electrode storage solution, 230 mL bottle
HI 70004P	pH 4.01 solution, 20 mL sachet (25 pcs)
HI 70007P	pH 7.01 solution, 20 mL sachet (25 pcs)
HI 70010P	pH 10.01 solution, 20 mL sachet (25 pcs)
HI 77400P	pH 4 & 7 solutions, 20 mL sachet (5 each)
HI 770710P	pH 10 & 7 solutions, 20 mL sachet (5 each)
HI 7004M	pH 4.01 solution, 230 mL bottle
HI 7007M	pH 7.01 solution, 230 mL bottle
HI 7010M	pH 10.01 solution, 230 mL bottle
HI 70030P	12.88 mS/cm @ 25°C cal. sol., 20 mL sachet (25 pcs)
HI 70031P	1413 μ S/cm @ 25°C cal. sol., 20 mL sachet (25 pcs)
HI 70032P	1382 ppm @ 25°C cal. sol., 20 mL sachet (25 pcs)
HI 70038P	6.44 ppt @ 25°C cal. sol., 20 mL sachet (25 pcs)
HI 70442P	1500 ppm @ 25°C cal. sol., 20 mL sachet (25 pcs)

For a complete range of calibration and maintenance solutions see section F and pages G 17 and G 18.