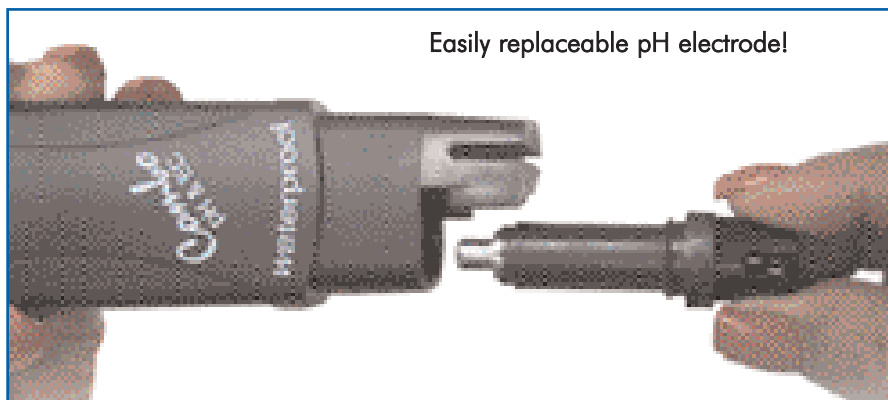




## Measure pH/EC/TDS/Temperature with Only One Tester



The 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.

### Specifications

		HI 98129	HI 98130
Range	pH	0.00 to 14.00 pH	
	EC	0 to 3999 $\mu\text{S}/\text{cm}$	0.00 to 20.00 mS/cm
	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
	Temperature	0.0 to 60.0°C / 32.0 to 140.0°F	
Resolution	pH		0.01 pH
	EC	1 $\mu\text{S}/\text{cm}$	0.01 mS/cm
	TDS	1 ppm	0.01 ppt
	Temperature	0.1°C / 0.1°F	
Accuracy (@20°C)	pH	$\pm 0.05$ pH	
	EC / TDS	$\pm 2\%$ F.S.	
	Temperature	$\pm 0.5^\circ\text{C} / \pm 1^\circ\text{F}$	
Temperature Compensation		pH: automatic; EC/TDS: automatic with $\beta$ adjustable from 0.0 to 2.4% / °C	
Calibration	pH	automatic, 1 or 2 points with 2 sets of memorized buffers (pH 4.01 / 7.01 / 10.01 or 4.01 / 6.86 / 9.18)	
	EC / TDS	automatic, 1 point	
TDS Conversion Factor		adjustable, from 0.45 to 1.00	
pH Electrode		HI 73127 (replaceable; included)	
Environment		0 to 50°C (32 to 122°F); RH max 100%	
Battery Type / Life		4 x 1.5V / approx. 100 hours of continuous use, auto-off after 8 minutes of non-use	
Dimensions		163 x 40 x 26 mm (6.4 x 1.6 x 1.0")	
Weight		100 g (3.5 oz.)	

The EC/TDS conversion factor is user selectable as well as the temperature compensation coefficient ( $\beta$ ). Fast, efficient, accurate and portable, the **Combo** pH, EC/TDS and temperature tester brings you all the features you've asked for and more!

### Accessories

HI 73127	Spare pH electrode for <b>Combo</b>	HI 70031P	1413 $\mu\text{S}/\text{cm}$ buffer solution, 20 mL sachet, 25 pcs.
HI 73128	Electrode removal tool	HI 70032P	1382 ppm buffer solution, 20 mL sachet, 25 pcs.
HI 70004P	pH 4.01 buffer solution, 20 mL sachet, 25 pcs.	HI 70038P	6.44 ppt buffer solution, 20 mL sachet, 25 pcs.
HI 70006P	pH 6.86 buffer solution, 20 mL sachet, 25 pcs.	HI 70442P	1500 ppm buffer solution, 20 mL sachet, 25 pcs.
HI 70007P	pH 7.01 buffer solution, 20 mL sachet, 25 pcs.	HI 70300M	Electrode storage solution, 230 mL bottle
HI 70009P	pH 9.18 buffer solution, 20 mL sachet, 25 pcs.	HI 7061M	Cleaning solution, 230 mL bottle
HI 70010P	pH 10.01 buffer solution, 20 mL sachet, 25 pcs.		
HI 70030P	12.88 mS/cm buffer solution, 20 mL sachet, 25 pcs.		

### Ordering Information

HI 98129 is supplied complete with protective cap, electrode removal tool, batteries and instructions.

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For a complete range of calibration, cleaning and maintenance solutions, see section F.



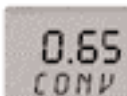
**Remaining battery life indication**

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



**Instability and ATC indicators**

Instability indicator ensures reliable measurements. The ATC symbol is shown when temperature compensation is active.



**Adjustable TDS ratio**

For greater accuracy of measurement, the user can choose between different conductivity to TDS conversion factors.



**Adjustable temperature coefficient**

For more precise temperature compensated measurements, the user can choose between different BETA factors.



**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

Sealed battery compartment

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

One handed push button operation

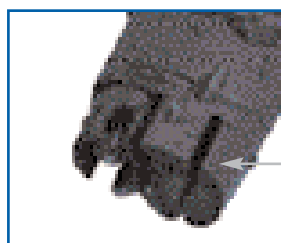
Floating, waterproof casing

Replaceable pH electrode cartridge

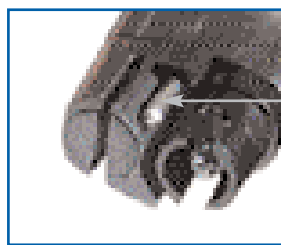
EC/TDS graphite electrode



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.



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



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