

pH/ORP/ISE Meters

Pocket Size



The **NEW HI 98129** and **HI 98130** Combo waterproof testers are designed for high accuracy pH, EC/TDS and temperature measurements. No more switching between meters, the Hanna Instruments' Combo does it all. All pH and EC/TDS readings are automatically temperature compensated (ATC) for. The EC/TDS conversion factor is user selectable as well as the temperature compensation coefficient β . The Combo is waterproof, floating and has a large easy-to-read dual-level LCD and Automatic shut off. The Combo has a replaceable pH electrode cartridge with a cloth renewable junction as well as an EC/TDS graphite electrode which resists contamination by salts and other substances that come in contact with the electrode. Fast, efficient, accurate and portable, the Combo pH, EC/TDS and temperature tester meets the requirements of multi-routine measurements.

Key features

Battery Life Percentage Illuminated



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



pH Stability & ATC Indicators

Stability of pH measurement is indicated by the timer symbol. The ATC symbol is shown when temperature compensation is active.

User 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 Coefficient Factor

Select any β (beta) value between 0.0 and 2.4% per °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:
4.01/7.01/10.01 or
4.01/6.86/9.18



The replaceable pH electrode of the Combo has a cloth junction which can be pulled out and in fact rejuvenates the electrode.

The Combo's stainless steel round connector means there are no pins to bend or break when replacing the electrode.

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

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

Specifications	HI 98129	HI 98130
Ranges	EC 0 to 3999 $\mu\text{S}/\text{cm}$ TDS 0 to 2000 ppm pH 0.00 to 14.00 °C 0.0 to 60.0	0.00 to 20.00 mS/cm 0.00 to 10.00 ppt 0.00 to 14.00 0.0 to 60.0
Resolution	EC 1 $\mu\text{S}/\text{cm}$ TDS 1 ppm pH 0.01 °C 0.1	0.01 mS/cm 0.01 ppt 0.01 0.1
Accuracy (@20°C)	EC/TDS pH °C	$\pm 2\%$ F.S. ± 0.01 ± 0.5
Temperature Compensation	pH: automatic; EC/TDS: with $\beta = 0.0$ to 2.4%/°C	
Calibration	pH EC/TDS	pH: 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 ; RH 100%	
Battery Type / Life	4 x 1.5 V with BEPS (battery error prevention system) / 100 hours	
Dimensions	163 x 40 x 26 mm	
Weight	85 g	

HI 98129 & HI 98130 are each supplied with , 4 x 1.5 V batteries, cartridge tool and instruction manual.

HI 73127 Spare pH electrode
HI 7004L pH 4.01 buffer solution, 460 ml
HI 7007L pH 7.01 buffer solution, 460 ml
HI 7010L pH 10.01 buffer solution, 460 ml
HI 70300L Storage solution, 460 ml

HI 7061L General purpose cleaning solution, 460 ml
HI 7030L 12880 μS calibration solution, 460 ml
HI 7031L 1413 μS calibration solution, 460 ml