

Gro Line

pH/EC/TDS Combo Tester

- **Waterproof**
 - Designed to withstand the humidity of a growing environment
- **Automatic one-point calibration** using our Quick Cal solution
- **Automatic Temperature Compensation**
 - All readings are compensated for variations in temperature
 - Temperature displayed in °C or °F along with pH reading
- **Measurement instability indicator**
 - Meter displays a clock tag that will disappear when the reading has achieved stability
- **HOLD button**
 - Freezes reading on the display to allow recording of measurement
- **BEPS (Battery Error Prevention System)**
 - Meter will automatically shut off if there is not enough power to get an accurate measurement
- **Battery % level at startup**
- **Low Battery Indicator**
- **Auto-off**
 - Automatically shuts off after 8 or 60 minutes of non-use to maximize battery life

The HI98131 Gro Line Combo offers high accuracy pH, EC (conductivity), TDS (total dissolved solids), and temperature measurements in a rugged, waterproof casing that floats.

The Gro Line Combo features a replaceable pH electrode with extendable cloth junction as well as an EC/TDS graphite electrode. The renewable cloth junction provides an extended electrode life and the replaceable pH cartridge means that this tester does not need to be thrown away when the pH sensor is exhausted.

The EC/TDS conversion factor is user-selectable as is the temperature compensation coefficient (β).



Pocket Clip

A pocket clip is featured on the back of the the Gro Line Combo

Probe Features



High accuracy EC/TDS graphite probe

The graphite conductivity probe provides greater accuracy because it cannot be contaminated by salt deposits in the solution. The exposed temperature sensor provides fast response times and guarantees highly accurate temperature compensated readings.



Replaceable pH electrode cartridge

The Combo features an easy-to-replace pH electrode. The sturdy, snap-in connector means there are no pins to bend or break.



Extendable cloth junction

Simply pull out 3 mm (1/8") and cut when the cloth junction becomes dirty to improve response time and stability.

On-Screen Features



On-screen battery life

LCD indicates the percentage of battery power remaining upon startup.



Instability & ATC indicators

Ensures reliable EC and TDS measurements. ATC symbol is shown when active.



Selectable EC to TDS conversion factor

Choice of either a 0.5 or 0.7 conversion factor.
0.5 (500 CF) conversion factor is for an EC reading of $1000 \mu\text{S}/\text{cm} = 500 \text{ ppm}$
0.7 (700 CF) conversion factor is for an EC reading of $1000 \mu\text{S}/\text{cm} = 700 \text{ ppm}$



HOLD function

The HOLD function "freezes" the LCD display temporarily.

Quick Calibration



Calibrate pH and EC with one solution

Calibration of both pH and EC can be performed using our Quick Cal calibration solution

Supplied complete

Supplied with all the tools necessary to start performing tests



HI98131 pH/EC/TDS Combo is supplied with:



Accessories

Electrode

HI73127 pH electrode cartridge

Quick Cal Solution

HI50036P Quick Cal buffer solution, 20 mL sachets (25)

HI5036-023 Quick Cal buffer solution, 230 mL

pH Buffer Solution

HI70004P pH 4.01 buffer solution, 20 mL sachets (25)

HI70007P pH 7.01 buffer solution, 20 mL sachets (25)

HI70010P pH 10.01 buffer solution, 20 mL sachets (25)

HI77400P pH 4.01 & 7.01 buffer solution, 20 mL sachets (10 pcs., 5 ea.)

HI770710P pH 10.01 & 7.01 buffer solution, 20 mL sachets (10 pcs., 5 ea.)

Electrode Cleaning Solution

HI700601P general purpose cleaning solution, 20 mL sachets (25)

Electrode Storage Solution

HI70300M electrode storage solution, 230 mL bottle

Specifications

HI98131

pH	Range	0.00 to 14.00 pH
	Resolution	0.01 pH
	Accuracy	±0.01 pH
	Calibration	automatic, one or two-point calibration (using pH 4.01, 7.01, 10.01 buffers); one-point calibration using HI5036 or HI50036 Quick Cal calibration solution
	Temperature Compensation	automatic
EC	Range	0.00 to 6.00 mS/cm
	Resolution	0.01 mS/cm
	Accuracy	±2% F.S.
	Calibration	automatic, one-point at 1.41 mS/cm or 5.00 mS/cm; one-point calibration using Quick Cal calibration solution
	Temperature Compensation	automatic, with $\beta = 1.9\%/^{\circ}\text{C}$
TDS	Range	0 to 3000 ppm (500 CF); 0 to 3999 ppm (700 CF)
	Resolution	10 ppm (mg/L)
	Accuracy	±2% F.S.
	Conversion Factor**	0.5 (500 ppm) or 0.7 (700 ppm)
Temperature	Range*	0.0 to 60.0°C / 32.0 to 140.0°F
	Resolution	0.1°C / 0.1°F
	Accuracy	±0.5°C / ±1°F
Additional Specifications	pH Electrode	HI73127 (replaceable; included)
	Environment	0 to 50°C (32 to 122°F); RH max 100%
	Battery Type / Life	1.5V (4) / approx. 100 hours of continuous use; auto-off after 8 min or 60 min of non-use; can be disabled
	Dimensions / Weight	163 x 40 x 26 mm (6.4 x 1.6 x 1.0") / 100 g (3.5 oz.)

