

ECONOMICAL MULTIFUNCTIONAL METERS

Waterproof pH, TDS, Conductivity and Temperature Testers

Fast, efficient, accurate and portable, the combo pH, EC/TDS and temperature tester meets the requirements of routine multi-measurements. The waterproof pH/conductivity/ TDS/temperature testers with replaceable electrode offer the following advantages:

- Rugged, floating waterproof casing
- Temperature in °F and °C
- Measurement stability indicator
- Replaceable pH electrode, featuring an extendable junction
- Automatic pH calibration at standard as well as NIST® buffer sets
- Automatic temperature compensation (ATC)
- Adjustable temperature coefficient factor

All-in-One Meters

These waterproof combination testers are designed for high accuracy pH, EC/TDS and temperature measurements. Now there is no need to switch meters to measure the pH and then the EC or TDS of a solution. At startup, the unit performs a self-check and then displays the remaining battery level to assure a proper working condition.

Easy to Use

These testers also have a stability indicator and “hold” feature to prompt the user when to take the reading and to freeze the display for easy and accurate recording. Calibration and temperature compensation is automatic, while the EC/TDS conversion factor and temperature coefficient factor (β) are user-adjustable for application-specific measurements.

Calibration

For calibration in pH, the user may choose between standard or NIST buffer sets. The meter has a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode which resists contamination by salts and other substances that come in contact with the electrode.

Probe

These meters have a stainless steel temperature probe for faster and more precise temperature measurement.

Choose the Right Tester

EC/TDS ranges for your application:

- Model HI98129
EC 0-3999 $\mu\text{S}/\text{cm}$
TDS 0-2000 ppm
- Model HI98130
EC 0-20.00 mS/cm
TDS 0-10.00 ppt



Included Accessories

These units are supplied complete with pH electrode (reference HI73127), four 1.5V batteries and an electrode replacement tool (reference HI73128).

Optional Accessories

25 packets (.68 oz./20mL each) of calibration solution:

HI70004P pH 4.01
HI70007P pH 7.01
HI70010P pH 10.01
HI70031P EC 1413 $\mu\text{S}/\text{cm}$

General Purpose Cleaning Solution

(230mL bottle/reference HI7061M)

Clean the liquid junction of your electrodes once a day or at least once a week to prevent clogging and to maintain accuracy. The electrode should be immersed in the proper cleaning solution for about five minutes.

Electrode Storage Solution

(230mL bottle/HI70300M)

To minimize clogging and ensure fast response time, always keep the glass bulb and the junction of your pH electrode moist. Store the electrode with a few drops of electrode storage solution or pH 7 buffer solution in the protective cap.

Specifications

MODEL HI98129C

Range

EC 0-3999 $\mu\text{S}/\text{cm}$
TDS 0-2000 ppm
pH 0-14.00
Temperature 32-140°F/0-60°C

Resolution

Conductivity 1 $\mu\text{S}/\text{cm}$
TDS 1 ppm
pH .01
Temperature .1°F/.1°C

Accuracy

EC/TDS $\pm 2\%$ full scale
pH ± 0.05
Temperature $\pm 1^\circ\text{F}/.5^\circ\text{C}$

Typical EMC Deviation

EC/TDS $\pm 2\%$ full scale
pH ± 0.02
Temperature $\pm 1^\circ\text{F}/\pm 1^\circ\text{C}$

Temperature Compensation

ph Automatic
EC/TDS with $\beta = .0-2.4\%/^\circ\text{C}$

Calibration

pH Automatic at one or two points with two sets of memorized buffers
EC/TDS Automatic at one point

EC/TDS Conversion Factor

.45-1

Operation Environment

32-122°F/0-50°C
Relative humidity 100%

Battery Type/Life

Four 1.5V batteries/100 hours

Physical Characteristics

Weight 3 oz./85 gr.
Dimensions 6.4x1.6x1"/
16.3x4x2.6cm

MODEL HI98130C

Range

EC 0-20 mS/cm
TDS .00-10 ppm
pH 0-14.00
Temperature 32-140°F/0-60°C

Resolution

Conductivity .01 mS/cm
TDS .01ppm
pH .01
Temperature .1°F/.1°C

Accuracy

EC/TDS $\pm 2\%$ full scale
pH ± 0.05
Temperature $\pm 1^\circ\text{F}/.5^\circ\text{C}$

Typical EMC Deviation

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