

pH • EC • TDS • ORP • Temperature

Individually or Combined

**TRANSCAT**

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HANNA

ATC



pH

7.01

CAL

25.3 °C

MODE

SET/HOLD

**HANNA**<sup>®</sup>  
instruments

With Great Products, Come Great Results™

# The World's Most Advanced Line Of Testers

With these powerful waterproof testers, you can easily measure pH, EC/TDS, temperature, and now ORP, *anywhere*. Attention to detail is evident in these advanced instruments with features such as replaceable electrode technology and stainless steel temperature probes for faster, more precise measurements. The EC/TDS meters have graphite probes for fast response and contamination resistance.



At startup, each tester performs a self check then displays the remaining battery level assuring proper working condition. A stability indicator tells you when to take the reading and a hold button freezes the display for easy and accurate recording. All information is displayed on a redesigned LCD that gives you the complete picture at a glance.

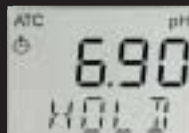
## LCD DISPLAY FEATURES



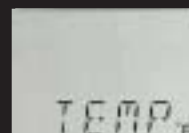
**Dual-level LCD Display**  
Simultaneous display of measurement reading and temperature.



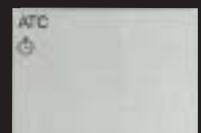
**On-screen Battery Life**  
When turned on, the LCD indicates the percentage of battery power remaining.



**HOLD Function**  
The HOLD function temporarily "freezes" the LCD display.



**Temperature Selection**  
Easily switch between Celsius and Fahrenheit readouts.



**Stability & ATC Indicators**  
Stability of pH, EC & TDS measurements are indicated by the timer symbol. The ATC symbol is shown when temp. compensation is active.

# Features

- Dual-level LCDs
- Cloth, Renewable Junctions
- Close Proximity Temperature Probes
- Replaceable Electrodes
- Battery Error Prevention Systems (BEPS)
- Automatic Temperature Compensation (*most models*)
- Automatic Calibration (*most models*)
- Tactile Grip Casings
- Waterproof and Floating
- Automatic Shut-off
- Efficient 2-button Operation
- Temperature in °C or °F

## Replaceable Electrodes

Hanna uses exclusive replaceable cartridge electrodes. The stainless steel round connector of the electrode means there are no pins to bend or break during replacement.

## Rejuvenating pH Junctions

The pH replaceable electrode features a pull-out cloth junction. When the cloth junction becomes dirty from routine testing, simply pull out 3 mm (1/8") to rejuvenate the electrode.

## Contamination Resistant Conductivity Electrode

Hanna's graphite conductivity electrode resists contamination from salt deposits in the solution.

## Close Proximity Temperature Probe

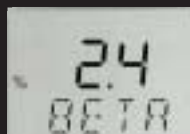
An exposed temperature probe provides faster response times. Its close proximity guarantees more accurate temperature compensated readings.

HANNA testers are the perfect combination of function and form.



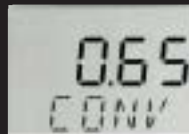
### Standard or N.I.S.T Buffer Calibration

Automatic calibration is performed with 2 sets of memorized buffers for greater accuracy.



### Adjustable Temperature Coefficient Factor

Select any  $\beta$  (BETA) value between 0.0 and 2.4% per °C in increments of 0.1.



### Adjustable TDS Ratio

For TDS measurements, users can choose a conversion factor between 0.45 and 1.00 in increments of 0.01.

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| SPECIFICATIONS                         |                              | pHep*4  | pHep*5   | DIST*5   | DIST*6   | ORP      | pH/ORP Combo | pH/EC Combo | pH/EC Combo |
|--|------------------------------|---|----------|----------|----------|----------|--------------|-------------|-------------|
| Model Number                           |                              | HI 98127  | HI 98128 | HI 98311 | HI 98312 | HI 98120 | HI 98121     | HI 98129    | HI 98130    |
| Range                                  | pH -2.0 to 16.0              | •   |          |          |          |          |              |             |             |
|  | pH -2.00 to 16.00            |   | •        |          |          |          | •            |             |             |
|  | pH 0.00 to 14.00             |   |          |          |          |          |              | •           | •           |
|  | EC 0 to 3999 µS/cm           |   |          | •        |          |          |              | •           |             |
|  | EC 0.00 to 20.00 mS/cm       |   |          |          | •        |          |              |             | •           |
|  | TDS 0 to 2000 ppm            |   |          | •        |          |          |              | •           |             |
|  | TDS 0.00 to 10.00 ppt        |   |          |          | •        |          |              |             | •           |
|  | ORP ±1000 mV                 |   |          |          |          | •        | •            |             |             |
|  | Temperature 0.0 to 60.0 °C   | •   | •        | •        | •        | •        | •            | •           | •           |
|  | Temperature 32.0 to 140.0 °F | •   | •        | •        | •        | •        | •            | •           | •           |
| Resolution                             | 0.1 pH                       | •   |          |          |          |          |              |             |             |
|  | 0.01 pH                      |   | •        |          |          |          | •            | •           | •           |
|  | 1 µS/cm EC                   |   |          | •        |          |          |              | •           |             |
|  | 0.01 mS/cm EC                |   |          |          | •        |          |              |             | •           |
|  | 1 ppm TDS                    |   |          | •        |          |          |              | •           |             |
|  | 0.01 ppt TDS                 |   |          |          | •        |          |              |             | •           |
|  | 1 mV ORP                     |   |          |          |          | •        | •            |             |             |
|  | 0.1 °F/°C                    | •   | •        | •        | •        | •        | •            | •           | •           |
| Accuracy (@20°C/68°F)                  | ±0.1 pH                      | •   |          |          |          |          |              |             |             |
|  | ±0.05 pH                     |   | •        |          |          |          | •            | •           | •           |
|  | ±2% F.S. EC/TDS              |   |          | •        | •        |          |              | •           | •           |
|  | ±2 mV ORP                    |   |          |          |          | •        | •            |             |             |
|  | ±0.5 °C                      | •   | •        | •        | •        | •        | •            | •           | •           |
| ±1 °F                                  | •                            | •   | •        | •        | •        | •        | •            | •           |             |
| Calibration*                           | pH Automatic*                | •   | •        |          |          |          | •            | •           | •           |
|  | EC/TDS Automatic**           |   |          | •        | •        |          |              | •           | •           |
| Automatic Temperature Compensation     |                              | •   | •        | •        | •        |          | •            | •           | •           |
| Battery Type                           | (4) 1.5V                     | •   | •        | •        | •        | •        | •            | •           | •           |
| Battery Life (hours)                   |                              | 300   | 300      | 100      | 100      | 300      | 250          | 100         | 100         |
| Battery Error Prevention System (BEPS) |                              | •   | •        | •        | •        | •        | •            | •           | •           |
| Auto-off after 8 minutes               |                              | •   | •        | •        | •        | •        | •            | •           | •           |
| Dimensions/Weight                      |                              | 163 x 40 x 26 mm(6.4 x 1.6 x 1")/85 g (3.0 oz.) |          |          |          |          |              |             |             |

\*1 or 2 points with 2 sets of memorized buffers, (pH 4.01/ 7.01/10.01 or pH 4.01/6.86/9.18)

\*\*1 point at 1413 µS/cm or 12.88 mS/cm

## ACCESSORIES

**HI 7061M** Electrode cleaning solution, 230 mL bottle  
**HI 70004P** pH 4.01 solution, 20 mL sachet (25 pcs)  
**HI 70006P** pH 6.86 solution, 20 mL sachet (25 pcs)  
**HI 70007P** pH 7.01 solution, 20 mL sachet (25 pcs)  
**HI 70009P** pH 9.18 solution, 20 mL sachet (25 pcs)  
**HI 70010P** pH 10.01 solution, 20 mL sachet (25 pcs)  
**HI 70006P** pH 6.86 solution, 20 mL sachet (25 pcs)  
**HI 7004M** pH 4.01 solution, 230 mL bottle  
**HI 7006M** pH 6.86 solution, 230 mL bottle  
**HI 7007M** pH 7.01 solution, 230 mL bottle  
**HI 7009M** pH 9.18 solution, 230 mL bottle  
**HI 7010M** pH 10.01 solution, 230 mL bottle

**HI 7021M** ORP test solution (240 mV), 230 mL bottle  
**HI 7022M** ORP test solution (470 mV), 230 mL bottle  
**HI 7091M** Pretreatment reducing sol., 230 mL bottle  
**HI 7092M** Pretreatment oxidizing sol., 230 mL bottle  
**HI 70030P** 12.88 mS/cm @ 25 °C calibration solution, 20 mL sachet (25 pcs)  
**HI 70031P** 1413 µS/cm @ 25 °C calibration solution, 20 mL sachet (25 pcs)  
**HI 70032P** 1382 ppm @ 25 °C calibration solution, 20 mL sachet (25 pcs)  
**HI 70038P** 6.44 ppt @ 25 °C calibration solution, 20 mL sachet (25 pcs)

**HI 70442P** 1500 ppm @ 25 °C calibration solution, 20 mL sachet (25 pcs)  
**HI 70300M** Electrode storage solution, 230 mL bottle  
**HI 73128** Electrode removal tool



## ORDERING INFORMATION

All Testers are supplied with cap, electrode removal tool, (4) 1.5V batteries and instruction manual.

AUTHORIZED DISTRIBUTOR

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