

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.

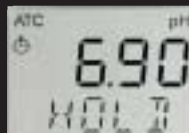
## LCD DISPLAY FEATURES



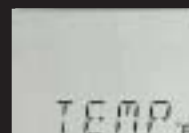
**Dual-level LCD Display**  
Simultaneous display of measurement reading and temperature.



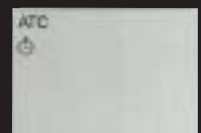
**On-screen Battery Life**  
When turned on, the LCD indicates the percentage of battery power remaining.



**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



EC • TDS • Temperature  
HI 98312  
HR

pH • EC • TDS • Temperature  
HI 98129

pH • EC • TDS • Temperature  
HI 98130  
HR

HANNA testers are the perfect combination of function and form.



### 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.



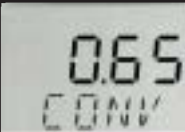
### Standard or N.I.S.T Buffer Calibration

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.

# The World's Most Advanced Line Of Testers



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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