

pH • EC • TDS • ORP • Temperature

Individually or Combined

HANNA

ATC



7.0

pH

CAL

25.3 °C

MODE

SET/HOLD

 **HANNA**[®]
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.

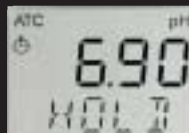
LCD DISPLAY FEATURES



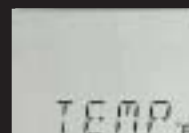
Dual-level LCD Display
Simultaneous display of measurement reading and temperature.



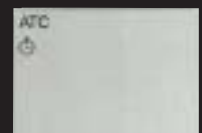
On-screen Battery Life
When turned on, the LCD indicates the percentage of battery power remaining.



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



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.



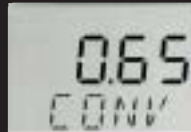
Standard or N.I.S.T Buffer Calibration

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



Adjustable Temperature Coefficient Factor

Select any β (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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instruments
With Great Products, Come Great Results™
www.hannainst.com