

# Professional Waterproof Testers

Testers designed to accurately measure your water samples in laboratories and industry.



**Waterproof • Floating**  
**Accurate • Replaceable Electrode**

## **pHep<sup>4</sup> & pHep<sup>5</sup>**

The pHep<sup>4</sup> & pHep<sup>5</sup> include features such as a dual-level LCD, battery level indicator, replaceable pH electrode cartridge, stability indicator, automatic shut-off and automatic calibration all in a floating, waterproof casing.

## **DiST<sup>5</sup> & DiST<sup>6</sup>**

The new DiST<sup>5</sup> and DiST<sup>6</sup> feature a replaceable graphite electrode, adjustable TDS ratio, temperature in °C or °F, automatic temperature compensation with adjustable  $\beta$ , battery level indicator, stability indicator, automatic shut-off and automatic calibration all in a floating, waterproof casing.

## **Combo**

The new HI 98129 and HI 98130 Combo waterproof testers offer high accuracy pH, EC/TDS and temperature measurements all in a single tester! pH and EC/TDS readings are automatically compensated for the effects of temperature (ATC). These technologically advanced testers have a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode that resists contamination by salts and other substances.

CERTIFIED ISO 9001

**HANNA**  
instruments  
Laboratory & Industrial Division

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# TESTERS DESIGNED FOR QUICK, ACCURATE & PROFESSIONAL MEASUREMENTS IN ANY APPLICATION!

## pHep®4 & pHep®5



- Waterproof, Floating
- Temperature in °C or °F
- Dual-level LCD
- Replaceable pH Electrode Cartridge
- Cloth Renewable Junction
- Battery Level Indicator
- Stability Indicator
- Automatic Calibration
- Automatic Shut-off

## DIST®5 & DIST®6



- Waterproof, Floating
- Temperature in °C or °F
- Dual-level LCD
- Replaceable Graphite Conductivity Electrode
- Adjustable  $\beta$
- Adjustable TDS Ratio
- Battery Level Indicator
- Stability Indicator
- Automatic Calibration
- Automatic Shut-off

## Combo



- Waterproof, Floating
- Dual-level LCD
- Replaceable pH Electrode Cartridge
- Cloth Renewable Junction
- Adjustable  $\beta$
- Adjustable TDS Ratio
- Battery Level Indicator
- Stability Indicator
- Automatic Calibration
- Automatic Shut-off

Replaceable pH Electrode Cartridge



Cloth Renewable Junction

Replaceable Graphite Conductivity Electrode



Replaceable pH Electrode Cartridge



Exposed Temperature Sensor Provides Fast Response Times

SPECIFICATIONS	pHep®4	pHep®5	DIST®5	DIST®6	Combo	Combo
<b>Model Number</b>	HI 98127	HI 98128	HI 98311	HI 98312	HI 98129	HI 98130
<b>Range</b>	pH: 0.0 to 14.0 EC: - TDS: - Temperature: 0.0 to 60.0°C or 32.0 to 140.0°F	0.00 to 14.00	- 0 to 3999 $\mu$ S/cm 0 to 2000 ppm 0.0 to 60.0°C or 32.0 to 140.0°F	- 0.00 to 20.00 mS/cm 0.00 to 10.00 ppt 0.1°C or 0.1°F	0.00 to 14.00 0 to 3999 $\mu$ S/cm 0 to 2000 ppm 0.0 to 60.0°C or 32.0 to 140.0°F	0.00 to 14.00 0.00 to 20.00 mS/cm 0.00 to 10.00 ppt 0.1°C or 0.1°F
<b>Resolution</b>	pH: 0.1 EC: - TDS: - Temperature: 0.1°C or 0.1°F	0.01	- 1 $\mu$ S/cm 1 ppm 0.1°C or 0.1°F	- 0.01 mS/cm 0.01 ppt 0.1°C or 0.1°F	0.01 1 $\mu$ S/cm 1 ppm 0.1°C or 0.1°F	0.01 0.01 mS/cm 0.01 ppt 0.1°C or 0.1°F
<b>Accuracy (@20°C/68°F)</b>	pH: $\pm 0.1$ EC/TDS: - Temperature: $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.05$	- $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	- $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.05$ $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.05$ $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$
<b>Typical EMC Deviation</b>	pH: $\pm 0.1$ EC/TDS: - Temperature: $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.02$	- $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	- $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.02$ $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$	$\pm 0.02$ $\pm 2\%$ F.S. $\pm 0.5^\circ\text{C}$ or $\pm 1^\circ\text{F}$
<b>Calibration</b>	Automatic 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)		EC/TDS: Automatic 1 point		pH: Automatic 1 or 2 points with 2 sets of memorized buffers; EC/TDS: Automatic 1 point	
<b>EC/TDS Conversion Factor</b>			Adjustable from 0.45 to 1.00		Adjustable from 0.45 to 1.00	
<b>Temperature Compensation</b>	Automatic		Automatic with $\beta = 0.0$ to 2.4%/°C		pH: Automatic; EC/TDS: Automatic with $\beta = 0.0$ to 2.4%/°C	
<b>Battery Type/Life</b>	4 x 1.5V with BEPS/approx. 250 hours of continuous use		4 x 1.5V with BEPS/approx. 100 hours of continuous use		4 x 1.5V with BEPS/approx. 100 hours of continuous use	
<b>Environment</b>	0 to 50°C (32 to 122°F); RH 100%		0 to 50°C (32 to 122°F); RH 100%		0 to 50°C (32 to 122°F); RH 100%	
<b>Weight/Dimensions</b>	85 g (3.0 oz.)/163 x 40 x 26 mm (6.4 x 1.6 x 1")		85 g (3.0 oz.)/163 x 40 x 26 mm (6.4 x 1.6 x 1")		85 g (3.0 oz.)/163 x 40 x 26 mm (6.4 x 1.6 x 1")	

Authorized Distributor

To contact a dealer near you,  
call HANNA Instruments at:  
734.971.8160  
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