

## Waterproof pH Meter with Automatic Calibration & Temperature Compensation



The same performance of a top-of-the-line microprocessor bench meter, can also be obtained with the **HI 8424NEW** portable pH meter, one of the most popular pH meters on the market. By utilizing an advanced, custom microprocessor, **HI 8424NEW** is able to perform pH, ORP and temperature measurements with high accuracy and fast response.

The mV measurements automatically switch from 0.1 to 1mV resolution when the reading reaches  $\pm 699.9$ mV. Temperature effects are automatically or manually compensated for, from 0 to 100°C (32 to 212°F).

The meter has 3 memorized buffer values (pH 4.01, 7.01, 10.01), and automatic buffer recognition to avoid errors during calibration.

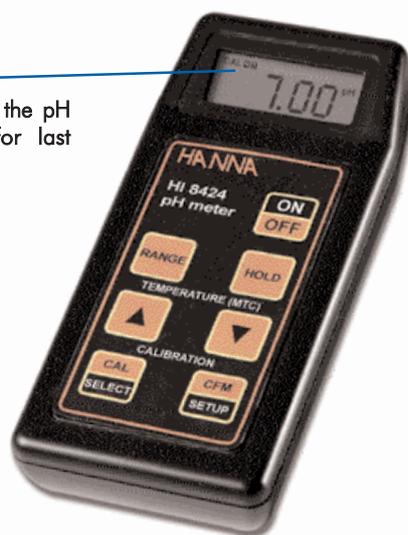
When turned on, the meter shows the percentage of the remaining battery life.

Thanks to the HOLD function, the reading can be frozen on the display to be logged manually.

Moreover, the temperature can be displayed in °C or °F, the user can enable or disable the Auto-off feature, the acoustic signal, the back-lit display.

In addition, **HI 8424NEW** indicates on the display the buffer values used for the last calibration.

**4 7**  
Tags indicating the pH buffers used for last calibration



### Specifications

		<b>HI 8424NEW</b>
Range	pH	-2.00 to 16.00 pH
	mV	$\pm 699.9$ mV; $\pm 1999$ mV
	Temperature	-20.0 to 120.0°C / -4.0 to 248.0°F
Resolution	pH	0.01
	mV	0.1 mV; 1 mV
	Temperature	0.1°C / 0.1°F
Accuracy (@20°C)	pH	$\pm 0.01$
	mV	$\pm 0.2$ mV; $\pm 1$ mV
	Temperature	$\pm 0.4$ °C / $\pm 0.8$ °F
pH Calibration		automatic, 1 or 2 point with 3 memorized buffer values (pH 4.01, 7.01, 10.01)
	Offset Calibration	$\pm 1$ pH
	Slope Calibration	75 to 110%
Input Impedance		$10^{12}$ Ohm
Temperature Compensation		automatic, -20 to 120°C (-4 to 248°F) or manual without temperature probe
pH Electrode		<b>HI 1230B</b> , double junction, gel filled Ultem® body, BNC connector, 1 m cable (included)
Temperature Probe		<b>HI 7662</b> with 1 m cable (included)
Battery Type / Life		1 x 9V / approx. 150 hours of continuous use; auto-off after 20 minutes of non-use or disabled (user-selectable)
Environment		0 to 50°C (32 to 122°F); RH max 100%
Dimensions / Weight		164 x 76 x 45 mm (6.5 x 3.0 x 1.8") / 180 g (6.3 oz.)

### Ordering Information

**HI 8424NEW** is supplied with **HI 1230B** pH electrode, **HI 7662** temperature probe, calibration and cleaning solutions, battery, protective case and instructions.

### Accessories

<b>HI 1230B</b>	pH electrode, gel filled, Ultem® body, BNC connector	<b>HI 70300L</b>	Electrode storage solution, 500 mL bottle
<b>HI 1332B</b>	ORP electrode, gel filled, Ultem® body, BNC connector	<b>HI 8427</b>	pH/mV electrode simulator
<b>HI 7662</b>	Temperature probe	<b>HI 931001</b>	pH/mV electrode simulator with display
<b>HI 76405</b>	Electrode holder	<b>HI 710015</b>	Shockproof rubber boot, blue
<b>HI 7004L</b>	pH 4.01 buffer solution, 500 mL bottle	<b>HI 710016</b>	Shockproof rubber boot, orange
<b>HI 7007L</b>	pH 7.01 buffer solution, 500 mL bottle	<b>HI 710022</b>	Spare protective case
<b>HI 7010L</b>	pH 10.01 buffer solution, 500 mL bottle		

For a complete range of calibration, cleaning and maintenance solutions, see section F. For pH and ORP electrodes, see section E. For accessories, see section U.