

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 ± 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.

Ordering Information

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



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Tags indicating the pH buffers used for last calibration



Specifications

HI 8424NEW		
Range	pH	-2.00 to 16.00 pH
	mV	± 699.9 mV; ± 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	± 0.01
	mV	± 0.2 mV; ± 1 mV
	Temperature	$\pm 0.4^\circ\text{C}$ / $\pm 0.8^\circ\text{F}$
pH Calibration	automatic, 1 or 2 point with 3 memorized buffer values (pH 4.01, 7.01, 10.01)	
Offset Calibration	± 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	HI 1230B , double junction, gel filled Ultem® body, BNC connector, 1 m cable (included)	
Temperature Probe	HI 7662 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.)	

Accessories

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