



- Automatic calibration
- Automatic Temperature Compensation
- Automatic buffer recognition
- Three standard buffer values
- Calibration tags on LCD
- Low battery indicator
- Auto shut-off
- HOLD function
- °C and °F measurements

HI 8424 is one of the most popular pH meters on the market. This instrument is able to perform pH, ORP and temperature measurements with a high degree of accuracy and fast response.

Calibration is automatic at one or two points with three memorized buffer values (pH 4.01, pH 7.01 and pH 10.01). Once the instrument has been calibrated, the buffer values used during calibration are displayed with tags on the LCD. This feature keeps users informed of the current calibration and helps to avoid taking measurements that are out of range.

Exchange the pH probe for an ORP probe to obtain ORP readings in the mV range.

SPECIFICATIONS

HI 8424

	pH	-2.00 to 16.00 pH
Range	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	±0.4°C / ±0.8°F
Calibration	pH	automatic, one or two point with three memorized buffer values (pH 4.01, 7.01, 10.01)
	Offset	±1 pH
	Slope	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 PEI body pH electrode with BNC connector and 1 m (3.3') cable (included)	
Temperature Probe	HI 7662 stainless steel temperatures probe with 1 m cable (included)	
Battery Type / Life	9V / approximately 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	164 x 76 x 45 mm (6.5 x 3.0 x 1.8")	
Weight	180 g (6.3 oz.)	

ORDERING INFORMATION

HI 8424 is supplied with HI 1230B pH electrode, HI 7662 temperature probe, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 700661 electrode cleaning solution sachets (2), battery, protective case and instructions.

ELECTRODES

HI 1230B	PEI body pH electrode with BNC connector and 1 m (3.3') cable
HI 3230B	PEI body ORP electrode with platinum sensor, BNC connector and 1 m (3.3') cable
HI 7662	Temperature probe

SOLUTIONS

HI 5004L	pH 4.01 buffer solution, 500 mL
HI 5007L	pH 7.01 buffer solution, 500 mL
HI 5010L	pH 10.01 buffer solution, 500 mL
HI 7061L	Electrode cleaning solution, 500 mL
HI 70300L	Electrode storage solution, 500 mL

ACCESSORIES

HI 710015	Shockproof rubber boot, blue
HI 710016	Shockproof rubber boot, orange

For a complete list of Solutions and Electrodes, see the end of this section.