

HI 2212 • HI 2213

pH Benchtop Meters with Three Point Calibration

- Up to three point pH calibration with five standard buffers or two custom
- ORP measurement (HI 2213 only)
- Relative mV readings (HI 2213 only)
- GLP features
- Calibration expiration reminder
- Automatic Temperature Compensation

The HI 2212 and HI 2213 are pH and temperature benchtop meters. HI 2213 can also measure oxidation reduction potential (ORP) in the mV range. A relative mV feature is also provided.

Calibration can be performed at up to three-points using five standard and two custom buffers.

These instruments feature manual or automatic temperature compensation with the HI 7662 temperature probe.

GLP (Good Laboratory Practice) feature provides data consistency. A calibration reminder can be set to alert the user, that too much time has elapsed since the last pH calibration and a new one should be performed.



ORDERING INFORMATION

HI 2212-01 (115V), HI 2212-02 (230V) and HI 2213-01 (115V) and HI 2213-02 (230V) are supplied with HI 1131B pH electrode, HI 7662 temperature probe, HI 76404N electrode holder, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 7071S electrolyte solution (30 mL), HI 700661 cleaning solution sachet, 12 VDC adapter and instructions.

ELECTRODES

Combination pH electrodes with BNC connectors, and 1 m (3.3') cable:

HI 1043B	Use: strong acids and bases. glass body, double junction, refillable
HI 1053B	Use: emulsions. glass-body, triple ceramic junction, refillable
HI 1083B	Use: biotechnology. glass-body, open junction, refillable
HI 1131B	Use: general purpose. glass-body, ceramic junction, refillable
HI 1332B	Use: general purpose. PEI body, double junction, refillable
HI 7662	Stainless steel temperature probe and 1 m (3.3') cable

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

SPECIFICATIONS	HI 2212	HI 2213
Range		
pH	-2.00 to 16.00 pH	
mV	-	±699.9 mV; ±2000 mV
Temperature	-20.0 to 120.0 °C (-4.0 to 248.0 °F)	
Resolution		
pH	0.01 pH	
mV	-	0.1 mV; 1 mV
Temperature	0.1 °C	
Accuracy		
pH	±0.01 pH	
mV	-	±0.2 mV; ±1 mV
Temperature	±0.2 °C (excluding probe error)	
Relative mV Offset Range	-	±2000 mV
pH Calibration	automatic, up to three points with five standard buffers available (4.01, 6.86, 7.01, 9.18, 10.01), and two custom buffers	
Temperature Compensation	manual or automatic from -20.0 to 120.0 °C (-4.0 to 248.0 °F)	
pH Probe	HI 1131B glass body pH electrode with BNC connector and 1 m (3.3') cable (included)	
Temperature Probe	HI 7662 stainless steel temperature probe with 1 m (3.3') cable (included)	
Input Impedance	10 ¹² ohm	
Power Supply	12 VDC adapter (included)	
Environment	0 to 50 °C (32 to 122 °F); RH max 95%	
Dimensions	235 x 222 x 109 mm (9.2 x 8.7 x 4.3")	
Weight	1.3 kg (2.9 lbs.)	

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