

0.001 Resolution and Data Logging pH Benchtop Meters



- Up to five point pH calibration with seven standard buffers
- Calibration expiration reminder
- Manually log up to 100 records
- Interval log up to 500 records (HI 2215)
- GLP features
- PC interface via USB

HI 2214 and HI 2215 are pH and ORP benchtop meters offering five point calibration. A relative mV feature is also provided. HI 2215 adds 0.001 pH resolution and interval logging.

These instruments can take measurements using ORP electrodes (pH channel input) due to their capability to measure mV with a resolution up to 0.1 mV.

Both instruments provide GLP capabilities to allow the storage and retrieval of all data regarding pH and relative mV calibration.

SPECIFICATIONS	HI 2214	HI 2215
pH	-2.0 to 16.0 pH; -2.00 to 16.00 pH	-2.0 to 16.0 pH; -2.00 to 16.00 pH
Range	mV: ±999.9 mV; ±2000 mV	±999.9 mV; ±2000 mV
Temperature	-20.0 to 120.0 °C (-4.0 to 248.0 °F)	
pH	0.1 pH 0.01 pH	0.1 pH 0.01 pH 0.001 pH
Resolution	mV: 0.1 mV (±999.9 mV); 1 mV (±2000 mV)	0.1 mV (±999.9 mV); 1 mV (±2000 mV)
Temperature		0.1 °C
pH		±0.01 pH
Accuracy	mV: ±0.2 mV (±999.9 mV); ±1 mV (±2000 mV)	±0.2 mV (±999.9 mV); ±1 mV (±2000 mV)
Temperature		±0.2 °C (excluding probe error)
Relative mV Offset		±2000 mV
pH Calibration	automatic, up to five point calibration with seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45), and two custom buffers	
Temperature Compensation	manual or automatic from -20.0 to 120.0 °C (-4.0 to 248.0 °F)	
pH Electrode	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	
PC Connectivity	opto-isolated USB	
Data Logging	log on demand, 100 records	
Logging Interval	5, 10, 30 seconds and 1, 2, 5, 10, 15, 30, 60, 120, 180 minutes stability logging ("StAb")	
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 lb)	

ORDERING INFORMATION

HI 2214-01 (115V), HI 2214-02 (230V) and HI 2215-01 (115V) and HI 2215-02 (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 70175 electrolyte solution (30 mL), HI 700661 cleaning solution sachet, 12 VDC adapter and instructions.

ELECTRODES

Combination pH electrodes with BNC connector 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 70900L Electrode storage solution, 500 mL

ACCESSORIES

- HI 92000 Windows® compatible software
- HI 920013 USB cable for PC connection
- HI 76404N Electrode holder

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