

HI 2216

0.001 Resolution pH/ORP/ISE/°C Benchtop Meter

- Up to five point pH calibration with seven standard buffers
- Up to two point ISE calibration with five standard solutions
- 0.001 pH resolution
- Calibration expiration reminder
- GLP features
- Automatic Temperature Compensation
- Manually log up to 200 records and interval log up to 500 records
- PC interface via USB

The HI 2216 is a pH, ORP, ISE meter with five point pH calibration and 0.001 pH resolution.

This instrument provides GLP capabilities to allow for the storage and retrieval of all data regarding pH, ORP, and ISE calibration.

HI 2216 can perform measurements using ORP electrodes in the mV scale and ISE electrodes in the ppm scale through the pH channel input. A relative mV feature is also provided.

ORDERING INFORMATION

HI 2216-01 (115V) and HI 2216-02 (230V) is 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 70715 electrolyte solution (30 mL), HI 700651 cleaning solution sachet, 12 VDC adapter and instructions.

ELECTRODES

Combination pH electrodes provided 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 70300L Electrode storage solution, 500 mL

ACCESSORIES

HI 92000 Windows® compatible software

HI 920013 USB cable for PC connection

HI 76404N Electrode holder



SPECIFICATIONS

HI 2216

pH	-2.0 to 16.0 pH; -2.00 to 16.00 pH; -2.000 to 16.000 pH
Range	mV ±999.9 mV (ORP) ±2000 mV (ORP)
ISE	0.001 to 19990 ppm
Temperature	-20.0 to 120.0 °C (-4.0 to 248.0°F)
pH	0.01 pH ±0.01 pH ±0.001 pH
mV	0.1 mV (±999.9 mV) ±1 mV (±2000 mV)
Resolution	ISE 0.001 (to 1.999 ppm); 0.01 (to 19.99 ppm); 0.1 (to 199.9 ppm); 1 (to 1999 ppm); 10 (to 19990 ppm)
Temperature	0.1°C
pH	±0.1 pH; ±0.01 pH; ±0.002 pH
Accuracy	mV ±0.2 mV (±999.9 mV); ±1 mV (±2000 mV)
ISE	±0.5% FS
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
ISE Calibration	automatic, one or two points with five available buffers (0.1, 1, 10, 100, 1000 ppm)
Temperature Compensation	manual or automatic (with HI 7662 probe) 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, 200 records; autologging, 500 records
Logging Interval	5, 10, 30 seconds and 1, 2, 5, 10, 15, 30, 60, 120, 180 minutes stability logging (5s@5B)
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.)

For a complete list of Solutions and Electrodes, see the end of pH Section 3 and ISE Section 4.