

HI 98172

Portable pH/ORP/ISE Meter with Calibration Check™

- pH Calibration Check™
- Five point pH calibration with seven standard and five custom pH buffers
- Log on demand (500 samples)
- User-selectable "calibration time out"
- Tutorial messages on LCD
- PC interface via USB

HI 98172 is a pH/ORP/ISE meter housed in a waterproof casing. Up to five point pH calibration is available with seven memorized pH buffers and five custom pH buffers to provide users with the flexibility necessary to adjust the calibration range to obtain the most accurate and precise readings.

Exchange out the pH sensor for an ORP sensor to obtain mV readings. ISE sensors are calibrated up to five points and measurements are displayed in ppm.

Calibration Check™ incorporates an electrode condition graph which alerts the user with regards to the electrode status. If readings are taken too far outside the calibration range, the unit will warn the user with a graphic signal. Users may set a reminder to notify when calibration is due.

HI 98172 features tutorial messages on the LCD and an auto-end mode to ensure readings are taken only when they are stable. Comprehensive GLP data are directly accessible by pressing the GLP key and log-on-demand holds up to 500 records. Data can be transferred to a PC via USB with optional HI 92000 software and HI 920014 USB connection cable.

ORDERING INFORMATION

HI 98172 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, 100 mL plastic beaker, batteries, instructions and hard carrying case.

ELECTRODES

HI 1230B	PEI body pH electrode with BNC connector and 1 m (3.3') cable
HI 3131B	Glass body ORP electrode with platinum sensor, BNC connector and 1 m (3.3') cable
HI 7662	Stainless steel temperature probe with 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 70300L	Electrode storage solution, 500 mL
HI 7061L	Electrode cleaning solution, 500 mL

ACCESSORIES

HI 92000	Windows® compatible software
HI 920014	Mini USB connection cable



SPECIFICATIONS		HI 98172
Range	pH	-4.0 to 20.0 pH; -4.00 to 20.00 pH
	mV	±699.9; ±2000 mV
	ISE	0.001 to 19990 ppm
	Temperature	-20.0 to 120.0°C (-4.0 to 248.0°F)
Resolution	pH	0.1 pH; 0.01 pH
	mV	0.1 mV (±699.9 mV); 1 mV (±2000)
	ISE	0.001 ppm (0.001 to 1.999); 0.01 ppm (2.00 to 19.99); 0.1 ppm (20.0 to 199.9); 1 ppm (200 to 1999); 10 ppm (2000 to 19990)
	Temperature	0.1°C (0.1°F)
Accuracy (@20°C/68°F)	pH	±0.1 pH; ±0.01 pH
	mV	±0.2 mV (±699.9 mV); ±1 mV (±2000 mV)
	ISE	±0.5% f.s.
	Temperature	±0.2°C (±0.4°F) excluding probe error
pH Calibration		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 5 custom buffers
ISE Calibration		up to five point calibration with six standard buffers available (0.1, 1, 10, 100, 1000, 10000 ppm)
Slope/Offset Calibration		±1 pH/from 80 to 110%
Relative mV Offset Range		±2000 mV
Temperature Compensation		manual or automatic from -20.0 to 120.0 °C (-4.0 to 248.0 °F)
pH Electrode		HI 1230B PEI 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)
Logging		log on demand, 500 samples
PC Connection		opto-isolated USB with optional HI 92000 software
Input Impedance		10 ¹² Ohm
Power Supply		1.5V AAA (3) / approximately 200 hours of continuous use without backlight (50 hours with backlight). User selectable auto-off (5, 10, 20, 60 minutes or can be disabled)
Environment		0 to 50°C (32 to 122°F); RH max 100%
Dimensions / Weight		185 x 72 x 36 mm (7.3 x 2.8 x 1.4") / 300 g (10.6 oz.)

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