

# Portable pH/ORP Meters 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 98160N is a pH/ORP meter housed in a waterproof casing. Up to five point calibration is available with eight memorized pH buffers and two 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.

HANNA's 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 98160N 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.

SPECIFICATIONS		HI 98160
Range	pH	-4.0 to 20.0 pH; -4.00 to 20.00 pH
	mV	±699.9; ±2000 mV
	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)
	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)
	Temperature	±0.2°C (±0.4°F) excluding probe error
pH Calibration	up to five point calibration with eight standard buffers available (1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45), and two custom buffers	
mV Calibration	automatic, two point at 0, 350 mV or three point at 0, 350, 1900 mV	
Offset Calibration	±1 pH	
Slope Calibration	from 80 to 110%	
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)	
Log On Demand	500 samples	
PC Connection	opto-isolated USB with optional HI 92000 software	
Input Impedance	10 <sup>12</sup> 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	185 x 72 x 36 mm (7.3 x 2.8 x 1.4")	
Weight	300 g (10.6 oz.)	

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

## ORDERING INFORMATION

HI 98160 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, batteries, instructions and rugged 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