

pH Meters for Education



- Compact and lightweight
- Built-in beaker and beaker-top electrode holder
- pH and temperature in one probe
- Built-in magnetic stirrer (HI 208)
- Dual-level LCD
- Automatic calibration
- Operated by battery or 12 VDC
- °C and °F temperature scales

With features such as a built-in beaker holder, beaker-top electrode holder and rugged, 2-in-1 pH and temperature sensor, the HI 207 and HI 208 are designed to meet busy classroom environments.

These instruments also feature an extended pH range, dual-level LCD with icons for stability and buffer recognition, built-in magnetic stirrer (HI 208 only), automatic pH calibration, and temperature display in either Celsius or Fahrenheit. In addition, all readings are automatically compensated for temperature variations.

In the classroom, these compact units reduce clutter and utilize a minimal amount of space on the desktop. Switch to battery power and the instrument can be taken outside the classroom for field studies. When lab time is over, the instruments are easily cleaned and can be placed out of the way—right away.

ORDERING INFORMATION

HI 207-01 (115V), HI 207-02 (230V), HI 208-01 (115V) and HI 208-02 (230V) are supplied with HI 1291D pH electrode, HI 740035 pH electrode holder and plastic beaker, rubber O-ring, magnetic stir bar (HI 208 only), HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, 12 VDC adapter, battery and instructions.

ELECTRODES

HI 1291D PEI body, preamplified pH electrode with internal temperature sensor, DIN connector 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 740036P Plastic beakers, 50 mL (10)
 HI 731316 Magnetic stir bars for HI 208 (5)
 HI 740035 Electrode holder and 50 mL plastic beaker for HI 207 and HI 208

SPECIFICATIONS		HI 207	HI 208
Range	pH	-2.00 to 16.00 pH	
	Temperature*	-5.0 to 105.0°C / 23.0 to 221.0°F	
Resolution	pH	0.01 pH	
	Temperature	0.1°C / 0.1°F	
Accuracy (@20°C)	pH	±0.02 pH	
	Temperature	±0.5 (up to 60°C); ±1°C (outside) ±1°F (up to 140°F); ±2°F (outside)	
pH Calibration		automatic, one or two point with two sets of memorized buffer values (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)	
Temperature Compensation		automatic	
Electrode		HI 1291D PEI body pH electrode with internal temperature sensor, DIN connector and 1 m (3.3') cable (included)	
Built-in Magnetic Stirrer		no	yes, built-in at 500 rpm
Battery Type / Life		9V / approximately 500 hours of continuous use (without stirrer)	
Power Supply		12 VDC adapter (included)	
Environment		0 to 50°C (32 to 122°F); RH max 95%	
Dimensions		192 x 104 x 134 mm (7.5 x 4.1 x 5.3")	
Weight		420 g (14.8 oz.)	

(*) The temperature range is limited to 80 °C (176 °F) if using the HI 1291D probe.

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