



**pH/mV Bench Meter for Education**



pH 209 is a rugged laboratory pH meter, specially designed for students.

The keypad has soft membrane keys for changing the mode, and easy to use knobs for slope and offset calibration.

The pH offset and slope are manually adjustable in order to display the calibration concept and electrode characteristics to the students.

Measurements in pH can be performed with manual temperature compensation. The selected temperature is displayed to ensure better accuracy.

The meter also measures ORP (Oxidation Reduction Potential).

Practicality, simplicity and comprehensive operating procedures make this meter one of the most popular, basic pH meters available today.

For added versatility, pH 209R offers analog output (0 to 5 V), that represents the full pH and mV range.

**Specifications**

		pH 209	pH 209R
Range	pH	0.00 to 14.00 pH	
	mV	-1999 to 1999 mV	
Resolution	pH	0.01 pH	
	mV	1 mV	
Accuracy (@20°C)	pH	±0.01 pH	
	mV	±1 mV	
pH Calibration		manual, 2 point	
Temperature Compensation		manual, 0 to 100°C (32 to 212°F)	
pH Electrode		HI 1332B, double junction, refillable, BNC connector, 1 m (3.3') cable (included)	
Analog Output		—	0 to 5V
	pH	—	0 to 14 pH
	mV	—	±1999 mV
Input Impedance		10 <sup>12</sup> Ohm	
Power Supply		12 Vdc adapter (included)	
Environment		0 to 50°C (32 to 122°F); RH max 95%	
Dimensions		240 x 182 x 74 mm (9.4 x 7.2 x 2.9")	
Weight		1.0 kg (2.2 lb.)	

**Accessories**

HI 1332B	Refillable pH electrode with BNC connector	HI 70300L	Electrode storage solution, 500 mL bottle
HI 3131B	ORP electrode with platinum sensor and BNC connector	HI 7082	Electrolyte solution 3.5M KCl, 30 mL bottle, 4 pcs.
HI 76404	Electrode holder	HI 710005	115 Vac / 12 Vdc adapter
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 710006	230 Vac / 12 Vdc adapter
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 8427	pH/mV electrode simulator
HI 7010L	pH 10.01 buffer solution, 500 mL bottle	HI 931001	pH/mV electrode simulator with display

**Ordering Information**

pH 209 is supplied complete with HI 1332B pH electrode, 12 Vdc power adapter and instructions.

pH 209R, with 0-5 V analog output, is supplied complete with HI 1332B pH electrode, 12 Vdc power adapter and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For pH and ORP electrodes, see section E. For accessories, see section U.