

Bench pH Meters with Custom Buffers



The new HANNA instruments® bench meters, HI 110 and HI 111, are ideal for those users that need a higher level of precision in certain pH ranges.

Automatic pH calibration can be performed at 3 points, by choosing the most suitable buffers from among the 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01).

HI 110 and HI 111 will also allow the user to manually set 2 custom pH values for calibration in a more specific range.

These instruments feature an extended temperature range (from -9.9 to 120°C), GLP functions, manual or automatic temperature compensation and mV measurements (HI 111 only).



Specifications

		HI 110	HI 111
Range	pH	—	-2.00 to 16.00 pH
	mV	—	± 699.9 mV; ± 2000 mV
	Temperature	—	-9.9 to 120.0°C
Resolution	pH	0.01 pH	0.01 pH
	mV	—	0.1 mV; 1 mV
	Temperature	0.1°C	0.1°C
Accuracy (@20°C)	pH	—	± 0.01 pH
	mV	—	± 0.2 mV; ± 1 mV
	Temperature	—	± 0.4°C
Relative mV Offset			± 2000 mV
pH Calibration		automatic, up to 3 points with 5 memorized values (pH 4.01, 6.86, 7.01, 9.18, 10.01) + 2 custom buffers	
Temperature Compensation		automatic (with HI 7669/2W probe) or manual from -9.9 to 120°C	
pH Electrode		HI 1131B, glass-body, double junction, refillable, BNC connector, 1 m cable (included)	
Temperature Probe		HI 7669/2W with 1 m (3.3') cable (included)	
Input Impedance		10 ¹² 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		1.1 kg (2.4 lb.)	

Accessories

HI 1131B	Refillable pH electrode with BNC connector	HI 77400P	pH 4 and pH 7 buffer sachets, 20 mL, 5 pcs. each
HI 7669/2W	Temperature probe	HI 70300L	Electrode storage solution, 500 mL bottle
HI 76404	Electrode holder	HI 710005	115 Vac/12 Vdc power adapter
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
HI 7007L	pH 7.01 buffer solution, 500 mL bottle		
HI 7010L	pH 10.01 buffer solution, 500 mL bottle		

Ordering Information

HI 110 and HI 111 are supplied complete with HI 1131B pH electrode, HI 7669/2W temperature probe, pH 4 and pH 7 buffer sachets (20 mL each), electrode refilling solution, electrode holder, 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.