

## 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 <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		1.1 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.