

HI 110 Series

High Precision pH Meters

for Professional Laboratories



For Challenging Applications

HI 112 and HI 113 are designed for those users that require the highest level of precision over the entire pH range. These meters are ideal for the most challenging applications where the sample pH may vary greatly. Depending on the level of precision required for each application, the user can select the pH resolution as 0.01 or 0.001.

A 5 point calibration may be performed on these meters. Choose the most suitable buffers for your system from the 7 standard buffers. If the memorized buffer values are not the most ideal for your application, HI 112 and HI 113 will allow you to manually set 2 custom pH values for calibration.

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 the 5 buffer values. HI 110 and HI 111 will also allow users to manually set 2 custom pH values for calibration most appropriate to you application range.

The HI 111 and 113 take mV measurements while HI 112 and HI 113 support RS232 computer connection. Data can be transferred with the HI 92000 application software.

The HI 110 Series features an extended temperature range (from -9.9 to 120°C), GLP functions, manual or automatic temperature compensation and custom buffers.

- Up to 5 point calibration (HI 112 and HI 113)
- Custom buffers or 7 standard pH buffers
- GLP functions

SPECIFICATIONS		HI 110	HI 111	HI 112	HI 113
Range	pH	-2.00 to 16.00 pH		-2.00 to 16.00; -2.000 to 16.000 pH	
	mV	—	±699.9 mV, ±2000 mV	—	±999.9 mV, ±2000 mV
	Temperature	-9.9 to 120.0°C			
Resolution	pH	0.01 pH		0.01 pH; 0.001 pH	
	mV	—	0.1mV; 1 mV	—	0.1mV; 1 mV
	Temperature	0.1°C			
Accuracy (@20°C)	pH	±0.01 pH		±0.01 pH; ±0.002 pH	
	mV	—	±0.2 mV; ±1 mV	—	±0.5 mV; ±1mV
	Temperature	±0.4°C			
Relative mV Offset	—	±2000 mV		—	±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			automatic, up to 5 points with 7 memorized values (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) + 2 custom buffers	
Analog Output	—				
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				
PC Connection	—	RS232 opto-isolated serial port			
Power Supply	12 Vdc adapter (included)				
Environment	0 to 50°C (32 to 122°F); RH max 95%				
Dimensions / Weight	240 x 182 x 74 mm (9.4 x 7.2 x 2.9") / 1.1 kg (2.4 lbs.)				

ORDERING INFORMATION

HI 110*, **HI 111***, **HI 112*** and **HI 113*** are supplied with HI 1131B pH electrode, HI 7669/2W temperature probe, pH 4 and pH 7 buffer sachets (20 mL ea.), electrode refilling solution, electrode holder, 12 Vdc power adapter and instructions.

ELECTRODES

HI 1131B Refillable pH electrode with BNC connector with 1m (3.3') cable

HI 7669/2W Temperature probe

SOLUTIONS

HI 5004 pH 4.01 buffer solution, 500 mL

HI 5007 pH 7.01 buffer solution, 500 mL

HI 5010 pH 10.01 buffer solution, 500 mL

HI 54710 pH 4.01, pH 7.01 and pH 10.01 buffer solution, 500 mL ea.

HI 70300L Electrode storage solution, 500 mL

HI 7061L Electrode cleaning solution, 500 mL

ACCESSORIES

HI 76404 Electrode holder

HI 92000 Windows® compatible software

HI 920010 Serial cable for PC connection

HI 710005 115 Vac/12 Vdc pwr adapter (US)

HI 710006 230 Vac/12 Vdc pwr adapter (EU)

HI 8427 pH/mV electrode simulator

HI 931001 pH/mV electrode simulator with display

* Supplied with 115V (add **-1**) or (add **-2**) 230V power supply

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