

# HI 120 • HI 121



## Professional pH Meters with Calibration Check and Automatic Data Logging

When pH measurements need to be performed, the calibration phase is very important. It is often necessary for the user to measure extreme pH values or values far from standard calibration buffers.

HI 120 and HI 121 can offer help in these situations, thanks to automatic calibration in up to 5 points. Users can select each point from among the 7 factory stored values and up to 2 more values manually entered for specific applications.

Moreover, thanks to Calibration Check™, good calibration results can be easily viewed directly on the display with the percentage information regarding electrode condition and response.

Both meters are in compliance with GLP. HI 121 can also perform ORP and ion-selective measurements, and store data that can be easily downloaded to a PC thanks to an RS232 port and our optional HI 92000 software.

### Specifications

	HI 120	HI 121
Range	pH -2.00 to 16.00 pH / -2.000 to 16.000 pH mV ±999.9 and ±2000 mV	0.001 to 19999 ppm
Selective Ions	—	0.001 to 19999 ppm
Temperature	-20.0 to 120.0°C	
Resolution	pH 0.01 pH / 0.001 pH mV 0.1 mV / 1 mV	0.001 / 0.01 / 0.1 / 1 ppm
Selective Ions	—	0.001 / 0.01 / 0.1 / 1 ppm
Temperature	0.1°C	
Accuracy (@20°C)	pH ±0.01 pH / ±0.002 pH mV ±0.2 mV (± 699.9 mV) / ±0.5 mV (± 999.9 mV) / ±1 mV (±2000 mV)	±0.5% f.s.
Selective Ions	—	±0.4°C
Temperature	±0.4°C	
BNC Inputs	1 for pH electrode	1 for pH electrode + 1 for ISE electrode
Calibration Check	status of electrode condition and response time, status of the buffer solutions during calibration	
Relative mV Offset	—	±2000 mV
pH Calibration	automatic, up to 5 points with 7 memorized values (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) + 2 custom buffers	
ISE Calibration	—	automatic, 1 or 2 point with 5 memorized values (0.1, 1, 10, 100, 1000 ppm)
Temperature Compensation	automatic or manual, -20.0 to 120°C (-4 to 248°F)	
pH Electrode	HI 1131P, glass body, refillable, BNC + pin connectors, 1 m cable (included)	
Temperature Probe	HI 7662 with 1 m (3.3') cable (included)	
Input Impedance	10 <sup>12</sup> Ohm	
Log-on-demand	500 samples	1000 samples
Automatic Logging	1000 samples	2000 samples
PC Connection	RS232 serial port, optoisolated	
Power Supply	12 Vdc adapter (included)	
Environment	0 to 50°C (32 to 122°F); RH max 95%	
Dimensions / Weight	280 x 203 x 84 mm (11.0 x 8.0 x 3.3") / 1.8 kg (4.0 lb.)	

### Accessories

HI 1131P	Refillable pH electrode with BNC+pin and 1 m (3.3') cable	HI 6010	pH 10.010 buffer solution, 500 mL bottle
HI 7662	Temperature probe	HI 77400P	pH 4 and pH 7 buffer sachets, 20 mL, 5 pcs. each
HI 76405	Electrode holder	HI 710005	115 Vac/12 Vdc power adapter
HI 6016	pH 1.677 buffer solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
HI 6004	pH 4.010 buffer solution, 500 mL bottle	HI 92000	Windows® compatible software
HI 6007	pH 7.010 buffer solution, 500 mL bottle	HI 920010	Serial cable for PC connection

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.



Cal-Check™ Function

### Ordering Information

HI 120 is supplied complete with HI 1131P pH electrode, HI 7662 temperature probe, pH 4 and pH 7 buffers, electrolyte solution, 12 Vdc power adapter and instructions.

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