HI122

pH Benchtop Meter

with Built-in Printer

The HI122 is a professional pH/mV and temperature benchtop meter with a built-in printer. The built-in impact printer incorporated into the HI122 allows measurement information to be printed while in various modes. The meter comes with Hanna's HI1131P glass pH electrode and the temperature probe HI7662-T to allow for automatic temperature compensation. The HI122 also allows for ORP measurements when used with the HI3131B ORP electrode (supplied seperately).

CAL Check™

Hanna's exclusive CAL Check diagnostics system ensures accurate pH readings every time by alerting users to potential problems during the calibration process. The CAL Check system eliminates erroneous readings due to dirty or faulty pH electrodes or contaminated pH buffer solutions during calibration. After the guided calibration process, the probe condition is evaluated and an alert is displayed informing the user of the overall pH electrode status.

Automatic Calibration

pH calibration can be performed with up to five points with seven standard buffers and two custom buffers.

HI1131P pH Electrode

The HI122 is supplied with the HI1131P glass body, double junction, refillable pH electrode with an indicating sensor made of High Temperature (HT) glass. The double junction and HT glass design allows the HI1131P to be used in a wide variety of applications ranging from samples with metals and Tris buffer to samples at elevated temperatures.

Temperature Compensation

Temperature for pH measurements can be compensated for automatically (ATC) or manually (MTC) from -20.0 to 120.0°C with the use of the supplied HI7662-T temperature probe.

GLP Data

The calibration data for each channel including date, time, standards used, offset, and slope can be accessed at any time through the HI122 menu.

Data Logging

The log-on-demand feature accepts the recording of 50 samples. Interval logging allows up to 1000 data points to be recorded and allows the user to specify time intervals from 5 seconds to 180 minutes.

Data Transfer

With a built-in logging function, measurements are stored in non-volatile memory, and can be transferred to a PC through the RS232 port.

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Built-in Impact Printer

The built-in impact printer incorporated into the HI122 uses regular paper that does not fade with time. The information related to measurements being taken can be printed while in measurement mode, GLP, or Setup mode. This meter also allows users to print detailed information in four languages for specific help screens and instrument set-up.

Secondary keypad

Specifications		HI122
pH	Range	-2.00 to 16.00 pH; -2.000 to 16.000 pH
	Resolution	0.01 pH; 0.001 pH
	Accuracy (@25°C)	±0.01 pH; ±0.002 pH
	Calibration	automatic, up to five point calibration standard with seven buffers (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) and two custom buffers
	Temperature Compensation	automatic or manual from -20.0 to 120°C (-4.0 to 248.0°F)
mV	Range	±999.9; ±2000 mV
	Resolution	0.1 mV; 1 mV
	Accuracy @25°C	±0.2 mV (±699.9 mV); ±0.5 mV (±999.9 mV); ±1 mV (±2000 mV)
	Relative mV Offset Range	±2000 mV
Temperature	Range	-20.0 to 120.0°C (-4.0 to 248.0°F)
	Resolution	0.1°C (0.1°F)
	Accuracy @25°C	±0.4°C (±0.7°F)
Additional Specifications	pH Electrode	HI1131P glass body pH electrode with BNC + pin connectors and 1 m (3.3') cable (included)
	Temperature Probe	HI7662-T temperature probe with 1 m (3.3') cable (included)
	Log-on-demand	50 samples (25 per channel)
	Interval Logging	5 second to 180 minutes, 1000 samples (500 per channel)
	Input Impedance	10^{12} Ohm
	PC Connection	RS232 serial port, opto-isolated
	Printer	built-in dot matrix printer, with 44 mm plain paper
	Power Supply	12 VDC adapter (included)
	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
	Dimensions	280 x 203 x 84 mm (11.0 x 8.0 x 3.3")
	Weight	1.9 kg (4.2 lbs.)
Ordering Information	**HI122-01** (115V) and **HI122-02** (230V) are supplied with HI1131P pH electrode, HI7662-T temperature probe, HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI7082 3.5M KCL electrolyte solution (30 mL), (5) paper rolls, 12 VDC adapter, and instructions.	
Accessories	**HI710032** Paper rolls (10)	
	HI710033 ink cartridge	

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