

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 separately).



CAL Check™

Hanna's exclusive CAL Check diagnostics system ensures accurate pH readings every time by alerting users of 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 indicator is displayed informing the user of the overall pH electrode status.

Automatic Calibration

pH calibration can be performed 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.



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 120.0°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 | |