

# Benchtop pH/mV Meter

with CAL Check

The HI2221 pH/mV benchtop meter features CAL Check™, data logging capability, and USB port for computer connectivity. Readings for pH can be manually or automatically compensated for temperature variations with the separate HI7662 temperature probe from -20.0 to 120.0°C.

## 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

Automatic pH calibration can be performed at up to 5 points using 7 standard buffers (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, and 12.45).

## GLP Data

The calibration data for each channel including date, time, standards used, offset, and slope can be accessed when the instrument is in pH measuring mode.

## HI1131P pH Electrode

The HI2221 is supplied with the HI1131P glass body, double junction, refillable pH electrode with a BNC and pin connector. This design consideration is ideal for laboratory samples, liquid samples, and high temperature samples, as well as general purpose use.

## mV mode

HI2221 has a mV mode that can be used with ORP electrodes and for relative mV readings.

## Data Logging

The log-on-demand feature allows up to 100 data points to be recorded.

## Data Transfer

Data can be transferred to a PC with a USB cable and HI92000 software (both sold separately).



### Specifications

	HI2221	
pH	Range	-2.00 to 16.00 pH
	Resolution	0.01 pH
	Accuracy	±0.01 pH
	pH Calibration	automatic, up to five point calibration with seven standard buffer available (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
	Temperature Compensation	Manual or Automatic from -20.0 to 120.0°C (-4.0 to 248.0°F)
mV	Range	±699.9 mV; ±2000 mV
	Resolution	0.1 mV (±699.9 mV); 1 mV (±2000 mV)
	Accuracy	±0.2 mV (±699.9 mV); ±1 mV (±2000 mV)
Temperature	Range	-20.0 to 120.0°C (-4.0 to 248.0°F)
	Resolution	0.1°C
	Accuracy	±0.2 °C (Excluding probe error)
Additional Specifications	pH Electrode	HI1131P glass body pH electrode with BNC + Pin connector and 1 m (3.3') cable (included)
	Logging Memory	log-on-demand up to 100 records
	Input Impedance	10 <sup>12</sup> Ohm
	Connectivity	opto-isolated USB
	Power Supply	12 VDC adapter (included)
	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
	Dimensions / Weight	235 x 222 x 109 mm (9.2 x 8.7 x 4.3") / 1.3 Kg (2.9 lb)
Ordering Information	HI2221-01 (115V) and HI2221-02 (230V) are supplied with HI1131P pH electrode, HI7662 temperature probe, HI76404N electrode holder, HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI7071S electrolyte solution, HI700661 cleaning solution sachet, 12 VDC adapter, and instructions.	

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