



The large graphical display allows users to simultaneously follow both measurement channels and receive real-time information regarding electrode status and last calibration data.

These advanced meters feature a powerful interactive menu system. The top row of buttons is designed to allow the user to make selections based on the current screen, making the instrument extremely simple to use.

Graphic Display pH Meters with Calibration Check™

HI 4211 & HI 4212 are single and dual-channel Calibration Check™ pH meters with a backlit, dot matrix display.

These instruments perform electrode diagnostics to ensure that the electrode used is always in good condition. As part of the Calibration Check™ feature, if the measurement is outside of the calibration range, users are warned with a graphic message.

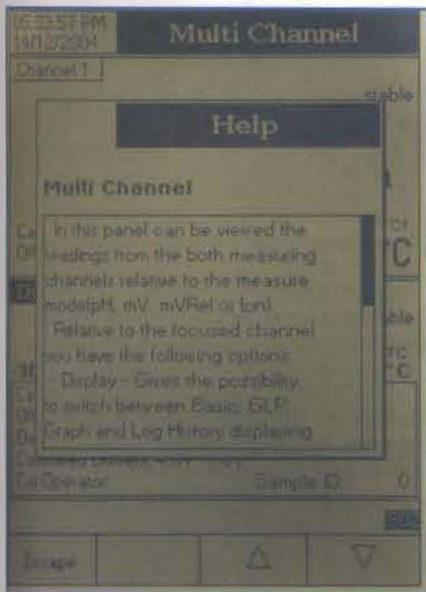
In order to always perform a calibration that is as close as possible to the measurement range, the user has the flexibility to choose up to 5 calibration points with standard or custom buffers.

The dual-channel HI 4212 provides simultaneous graphing and logging of each independent channel on the screen.

These meters can display extensive GLP data, concurrent measurement readout and logged graphed data, calibration data with used buffer values and expiration date and definition of the ionic strength constant value (ISE measurement only).

HI 4211 and HI 4212 also provide on-screen feature related help: at the touch of a button users can access current content related guidelines and procedures in 4 languages.

Graphic Display pH Meters with Calibration Check™



Users can consult the on-board help from any mode screen simply by pressing the HELP button.

The meter will then display a brief explanation of the meaning and use of the current command.



Specifications

		HI 4211
Range	pH	-2.000 to 20.000 pH
	mV	±2000.0 mV
Resolution	Temperature	-20.0 to 120.0°C / -4.0 to 248.0°F / 253.15 to 393.15 K
	pH	0.1 pH / 0.01 pH / 0.001 pH
Accuracy (@20°C)	mV	0.1 mV
	Temperature	0.1°C / 0.1°F / 0.1 K
Relative mV Offset Range	pH	±0.1 pH / ±0.01 pH / ±0.002 pH ±1 LSD
	mV	±0.2 mV ±1 LSD
Input Channel	Temperature	±0.2°C / ±0.4°F / ±0.2 K
	Relative mV Offset Range	±2000.0 mV
Calibration Check	Input Channel	1
pH Calibration	Calibration Check	status of electrode condition, status of the buffer solutions during calibration
	Temperature Compensation	automatic, up to 5 points, with 8 memorized values (pH 1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) + 5 custom buffers
Temperature Probe	Temperature Compensation	automatic or manual, -20.0 to 120°C (-4 to 248°F)
Input Impedance	pH Electrode	HI 1131B
Log-on-demand	Temperature Probe	HI 7662-T
Automatic Data Logging	Input Impedance	10 ¹² Ohm
PC Connection	Log-on-demand	5000 samples
Menu Languages	Automatic Data Logging	5000 samples
Power Supply	PC Connection	USB and RS232 optoisolated ports
Environment	Menu Languages	English, Italian, Spanish, French
Dimensions / Weight	Power Supply	12 Vdc adapter (included)
	Environment	Environment
	Dimensions / Weight	159 x 230 x 93 mm (6.3 x 9.1 x 3.7") / 800 g (1.8 lb.)

Ordering Information

HI 4211 is supplied complete with power adapter and instructions.

HI 4211-01 is supplied complete with HI 1131B, pH electrode, HI 7662-T temperature probe, power adapter, pH 4 and pH 7 buffer solutions, electrode refilling solution, HI 76404N electrode holder, magnetic stirrer and instructions.

Accessories

HI 1131B	Refillable pH electrode with BNC connector and 1 m cable	HI 6124	pH 12.450 buffer solution, 500 mL bottle
HI 7662-T	Temperature probe	HI 77400P	pH 4 and pH 7 buffer sachets, 20 mL, 5 pcs. each
HI 76404N	Electrode holder	HI 710005/8	115 Vac/12 Vdc 800 mA power adapter
HI 6016	pH 1.677 buffer solution, 500 mL bottle	HI 710006/8	230 Vac/12 Vdc 800 mA 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	RS232 cable for PC connection
HI 6010	pH 10.010 buffer solution, 500 mL bottle	HI 180H/D	Magnetic stirrer, 230/240 Vac

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.