

pH 200 SERIES



The pH 200 series of bench meters are ideal for water analysis in all laboratory settings. Each and every Hanna bench meter is easy to use, economical, reliable, and most important, precise.



pH 213

Multiple parameters and very versatile, the **pH 213** measures pH directly as well as millivolts for pH, Ion Specific Electrodes (ISE), and Oxidation Reduction Potential (ORP) electrodes. All measurements can be made using automatic or manual temperature compensation. The instructions for calibration are presented on the display with safeguards to prevent premature calibration errors. You can choose either 1 or 2 point calibration using the 5 most common memorized buffers. Secure connectivity to your PC or network through a serial RS232 connection and Windows® compatible software.

Ordering Information

pH 210, pH 211, pH 211R, pH 212 & pH 213 are supplied complete with HI 1131B pH electrode with BNC connector and 1 m cable, HI 7669/2W temperature probe, electrode holder, pH 4 and 7 calibration solution (20 mL each), electrolyte solution, & 12VDC adapter

Accessories

- HI 76404 Electrode holder
- HI 7004L pH 4.01 buffer solution, 500 mL
- HI 7007L pH 7.01 buffer solution, 500 mL
- HI 7010L pH 10.01 buffer solution, 500 mL
- HI 77400P Cal. kit (pH 4 & 7, 20 mL, 5 pcs ea.)
- HI 70300L Storage solution, 460 mL
- HI 92000 Windows® compatible software
- HI 920010 9-pin cable for PC
- HI 8427 pH and ORP electrode simulator
- HI 931001 pH and ORP electrode simulator

pH 212

If only pH is needed, the **pH 212** performs brilliantly. It includes all the enhancements of the **pH 213**. You can select the displayed resolution of 0.01 pH or 0.001 pH for greater accuracy and clarity.

Specifications pH 213

pH Range	-2.00 to 16.00 -2.000 to 16.000
pH Accuracy	±0.01; ±0.002
pH Resolution	0.01; 0.001
mV Range	±999.9 (ISE & ORP)
mV Accuracy	±0.05% F.S. (ISE & ORP)
mV Resolution	0.1 (ISE & ORP)
°C Range	0.0 to 100.0
°C Accuracy	±0.5
°C Resolution	0.1
Auto cal Buffers	4.01/6.86/7.01/9.18/10.01
pH calibration	Automatic 1 or 2 points
Auto T.C.	with HI 7669/2W probe
Manual T.C.	from 0 to 100°C
pH electrode	HI 1131B (included)
°C probe	HI 7669/2W (included)
Input impedance	10 ¹² ohm
RS232 output	•
Power	12VDC adapter (included)
Environment	0 to 50 (32 to 122°F) max. 95% RH
Dimensions	240 x 182 x 74 mm (9.4 x 7.2 x 2.9")
Weight	1.1 Kg (2.4 lb)



pH 211

Combining the most frequently asked for parameters, the **pH 211** is the popular choice for bench-top instruments of laboratories around the world. You can measure pH directly, millivolts for pH, Ion Specific Electrodes (ISE), and Oxidation Reduction Potential (ORP) electrodes. Automatic or manual temperature compensation is user selectable. The instructions for calibration are presented in a step-by-step display with safeguards to prevent premature calibration errors.

pH 210

To solely measure pH, the easy choice is the **pH 210**. Calibration is just a few simple steps and is guided by graphics on the LCD and sophisticated custom microprocessor. You can calibrate at 1 or 2 points by choosing any combination of the 5 buffer values in the meter's powerful memory.

pH 209

The practical design of this meter makes it a smart choice for any laboratory. Its manual calibration feature provides you with an endless choice of offset and slope values. It is ideal for those applications where standardized buffers are not suitable. As an educational tool, the principles of pH measurement can be demonstrated with greater understanding.

	pH 212	pH 211/pH 211R*	pH 210	pH 209
pH Range	-2.00 to 16.00 -2.000 to 16.000	0.00 to 14.00	0.00 to 14.00	0.00 to 14.00
pH Accuracy	±0.01/±0.002	±0.01	±0.01	±0.01
pH Resolution	0.01/0.001	0.01	0.01	0.01
mV Range	-	±399.9 (ISE); ±1999 (ORP)	-	-1999 to 1999
mV Accuracy	-	±0.2 (ISE); ±1 (ORP)	-	±1
mV Resolution	-	0.1 (ISE); 1 (ORP)	-	1
°C Range	0.0 to 100.0	0.0 to 100.0	0.0 to 100.0	-
°C Accuracy	±0.5	±0.5	±0.5	-
°C Resolution	0.1	0.1	0.1	-
Auto cal Buffers	4.01/6.86/7.01/9.18/10.01	4.01/6.86/7.01/9.18/10.01	4.01/6.86/7.01/9.18/10.01	-
pH calibration	Automatic 1 or 2 points	Automatic 1 or 2 points	Automatic 1 or 2 points	Manual 2 points
Auto T.C.	with HI 7669/2W probe	with HI 7669/2W probe	with HI 7669/2W probe	-
Manual T.C.	from 0 to 100°C	from 0 to 100°C	from 0 to 100°C	from 0 to 100°C
pH electrode	HI 1131B (included)	HI 1131B (included)	HI 1131B (included)	HI 1332B (included)
°C probe	HI 7669/2W (included)	HI 7669/2W (included)	HI 7669/2W (included)	-
Input impedance	10 ¹² ohm	10 ¹² ohm	10 ¹² ohm	10 ¹² ohm
RS232 output	•	-	-	-
Power	12VDC adapter (included)	12VDC adapter (included)	12VDC adapter (included)	12VDC adapter (included)
Environment	0 to 50 (32 to 122°F) max. 95% RH	0 to 50 (32 to 122°F) max. 95% RH	0 to 50 (32 to 122°F) max. 95%	0 to 50 (32 to 122°F)
Dimensions	240x182x74 mm (9.4x7.1x2.9")	240x182x74 mm (9.4x7.1x2.9")	240x182x74 mm (9.4x7.1x2.9")	240x182x74 mm (9.4x7.1x2.9")
Weight	1.1 Kg (2.4 lb)	1.1 Kg (2.4 lb)	1.1 Kg (2.4 lb)	1.0 Kg (2.2 lb)

*pH 211R offers analog output of 0 to 5 V that represents the full pH and mV range.

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