

Specifications

pH Range	-2.0 to 20.0 pH; -2.00 to 20.00 pH; -2.000 to 20.000 pH
pH Resolution	0.1 pH; 0.01 pH; 0.001 pH
pH Accuracy	±0.1; ±0.002 pH
pH Calibration	up to five point calibration, seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) + five custom buffers
mV Range	±2000 mV
mV Resolution	0.1 mV
mV Accuracy	±0.2 mV
Temperature Range	-20.0 to 120.0°C (-4.0 to 248.0°F)
Temperature Resolution	0.1°C (0.1°F)
Temperature Accuracy	±0.4°C (±0.8°F) (excluding probe error)
Temperature Compensation	manual or automatic from -20.0 to 120.0°C (-4.0 to 248.0°F)
Slope Calibration	from 80 to 110%
Electrode/Probe	HI12963 Titanium body, pH electrode with internal temperature sensor, quick DIN connector and 1 m (3.3' cable)
Input Impedance	10 ¹² Ohms
Log-on-demand	200 samples (100 pH and 100 mV range)
PC Connectivity	opto-isolated USB with optional HI 92000 software and micro USB cable
Battery Type/Life	1.5V AA batteries (4) / approximately 200 hours of continuous use without backlight (50 hours with backlight)
Auto-off	user selectable: 5, 10, 30, 60 min or can be disabled

Environment	0 to 50°C (32 to 122°F); RH 100% (IP67)
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Dimensions	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")
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Weight	400 g (14.2 oz.)
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**Ordering
Information**

HI98190 is supplied with HI12963 titanium body pH electrode, HI7004M pH 4.01 buffer solution (230 mL), HI7007M pH 7.01 buffer solution (230 mL), HI700601 electrode cleaning solution sachet (2), 100 mL plastic beaker (2), 1.5V AA batteries (4), HI92000 PC software, HI920015 micro USB cable, instruction manual, quick start guide, instrument quality certificate and HI720190 hard carrying case.