

## Specifications

<b>pH Range</b>	-2.0 to 20.0 pH; -2.00 to 20.00 pH; -2.000 to 20.000 pH
<b>pH Resolution</b>	0.1 pH; 0.01 pH; 0.001 pH
<b>pH Accuracy</b>	±0.1; ±0.002 pH
<b>pH Calibration</b>	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
<b>mV Range</b>	±2000 mV
<b>mV Resolution</b>	0.1 mV
<b>mV Accuracy</b>	±0.2 mV
<b>ISE Range</b>	from 1.00 E <sup>-7</sup> to 9.99 E <sup>10</sup> concentration
<b>ISE Resolution</b>	3 digits 0.01; 0.1; 1; 10 concentration
<b>ISE Accuracy</b>	±0.5% of reading (monovalent ions), ±1% of reading (divalent ions)
<b>ISE Calibration</b>	up to five point calibration, seven standard solutions (choice of concentration)
<b>Temperature Range</b>	-20.0 to 120.0°C (-4.0 to 248.0°F)
<b>Temperature Resolution</b>	0.1°C (0.1°F)
<b>Temperature Accuracy</b>	±0.4°C (±0.8°F) (excluding probe error)
<b>Temperature Compensation</b>	manual or automatic from -20.0 to 120.0°C (-4.0 to 248.0°F)
<b>Slope Calibration</b>	from 80 to 110%
<b>Electrode/Probe</b>	HI72911B Titanium body, pH electrode with internal temperature sensor, BNC connector and 1 m (3.3' cable)

<b>Input Impedance</b>	10 <sup>12</sup> Ohms
<b>Log-on-demand</b>	300 samples (100 each range pH, mV and ISE)
<b>PC Connectivity</b>	opto-isolated USB with optional HI 92000 software and micro USB cable
<b>Battery Type/Life</b>	1.5V AA batteries (4) / approximately 200 hours of continuous use without backlight (50 hours with backlight)
<b>Auto-off</b>	user selectable: 5, 10, 30, 60 min or can be disabled
<b>Environment</b>	0 to 50°C (32 to 122°F); RH 100% (IP67)
<b>Dimensions</b>	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")
<b>Weight</b>	400 g (14.2 oz.)
<b>Ordering Information</b>	HI98191 is supplied with HI72911B 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 HI720191 hard carrying case.