HI99131

Portable pH Meter

for Plating Baths

- Simultaneous pH and temperature measurements on a large dual-line LCD display
- User-friendly two button design
- Application specific probe
- Durable IP67 waterproof casing
- Watertight probe connection
- Probe condition indicator
- Automatic pH calibration at one or two points within two memorized buffer sets (standard or NIST)
- On-screen calibration tags
- mV measurement for electrode check
- Selectable temperature unit (°C or °F)
- Auto-off function
- Battery life indication and low battery detection

Plating Baths can vary from acid to neutral to alkaline with many different chemical formulations used. The common necessity is the fast and accurate measurement of pH to ensure that additives and chemicals are working properly to provide even and consistent plating.

The HI99131 portable pH meter and HI629113 pH electrode are specially designed for pH measurements in plating baths.

The titanium electrode body acts like a Faraday cage, and allows stable readings even in samples where strong electrical fields are involved.

Moreover, a built-in temperature sensor allows simultaneous temperature compensated pH and temperature readings and a pH sensor preamplifier provides measurements impervious to noise and electrical interferences.

Specifications		HI99131
pH	Range*	-2.00 to 16.00 pH / -2.0 to 16.0 pH
	Resolution	0.01 pH / 0.1 pH
	Accuracy (@25°C/77°F)	±0.02 pH / ±0.1 pH
	Calibration	Automatic, one or two-point selectable bufferset standard: 4.01; 7.01; 10.01 or NIST: 4.01; 6.86; 9.18
pH-mV	Range*	±825 mV
	Resolution	1 mV
	Accuracy (@25°C/77°F)	±1 mV
Temperature	Range*	-5.0 to 105.0°C; 23.0 to 221.0°F
	Resolution	0.1°C; 0.1°F
	Accuracy (@25°C/77°F)	±0.5°C (up to 60°C), ±1.0°C (outside); ±1.0°F (up to 140°F), ±2.0°F (outside)
Additional Specifications	Temperature Compensation	automatic, from -5.0 to 105.0°C (23.0 to 221.0°F)
	Probe (included)	HI629113 preamplified pH probe with built-in temperature sensor and titanium cage working as matching pin, DIN connector with 1m (3.3') cable
	Battery Type / Life	1.5V AAA (3) approx. 1400 hours of continuous use
	Auto-off	user selectable: after 8 min, 60 min, or disabled
	Environment	0 to 50°C (32 to 122°F); RH max. 100%
	Meter Dimensions	154 x 63 x 30 mm (6.1 x 2.5 x 1.2")
	Meter Mass (with batteries)	196 g (6.91 oz.)
	Case Ingress Protection Rating	IP67
Ordering Information	**HI99131** is supplied with HI629113 preamplified pH probe with built-in temperature sensor and titanium body, Quick Connect DIN connector with 1m (3.3') cable, pH 4.01 and 7.01 Buffer sachets, HI700601 electrode cleaning solution sachets (2), 100 mL beaker, 1.5V AAA batteries (3), calibration certificate of meter, calibration certificate of probe, instruction manual, and HI710142 rugged carrying case.	

- Optional shockproof silicon rubber boot
  - Specially designed to protect your instrument from damage or impact

HI710028 Orange
HI710029 Blue
HI710030 Green

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