

HI83141-1 · HI8314-1

## Analog pH/mV Meters

- Automatic Temperature Compensation (ATC)
- Two-point Calibration
- Water-resistant
  - Compact, heavy-duty casing
- Battery indicator
  - Low battery indicator
- Auto shut-off

The HI83141-1 and HI8314-1 are portable pH/mV meters designed to be accurate, reliable and easy to use.

The HI8314-1 uses the HI1217-1 pre-amplified pH electrode with built-in internal temperature sensor.

The HI83141-1 uses the HI1230B pH electrode and HI7669-1 temperature probe using separate connections.

Manual calibration is performed at one or two points by adjusting the trimmers on the front panel. Capable of measuring pH/mV and temperature, these meters are great for field work, providing one meter for multiple uses.

This instrument is ideal for applications that require a custom calibration point. Manual calibration can be extremely useful in order to achieve better accuracy.

These instruments can also be used for ORP measurements with the optional probes below:

HI83141-1: **HI1311B**

HI8314-1: **HI3618D-1**



Specifications		HI83141-1	HI8314-1
pH*	Range	0.00 to 14.00 pH	0.00 to 14.00 pH
	Resolution	0.01 pH	0.01 pH
	Accuracy	±0.01 pH	±0.01 pH
	Calibration	manual, two-point, via trimmers	
	Temperature Compensation	automatic, 0 to 70°C (32 to 158 °F)	
mV	Range	±1999 mV	±1999 mV
	Resolution	1 mV	1 mV
	Accuracy	±1 mV	±1 mV
Temperature*	Range	0.0 to 100.0°C; 32.0 to 212.0°F	0.0 to 100.0°C; 32.0 to 212.0°F
	Resolution	0.1°C; 0.1°F	0.1°C; 0.1°F
	Accuracy	±0.4°C; ±0.8°F (excluding probe error)	
Additional Specifications	pH Electrode	HI1230B PEI body pH electrode with BNC connector and 1 m (3.3') cable (included)	HI1217-1 PEI body, pre-amplified pH electrode with internal temperature sensor, DIN connector, and 1 m cable (included)
	Temperature Probe	HI7669-1 stainless steel temperature probe, BNC connector (included)	–
	Slope / Offset Calibration	from 80 to 110% / ±1 pH	
	Battery Type / Life	9V / approximately 450 hours of continuous use	
	Auto Shut-Off	after 8 minutes of non-use	
	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
	Dimensions	145 x 80 x 36 mm (5.7 x 3.1 x 1.4")	
	Weight	230 g (8.1 oz.)	
	Ordering Information	<p><b>HI83141-1</b> is supplied with HI1230B pH electrode and HI7662 temperature probe, HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI700601 electrode cleaning solution sachets (2), calibration screwdriver, battery, protective case, and instructions.</p> <p><b>HI8314-1</b> is supplied with HI1217-1 pH electrode, HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI700601 electrode cleaning solution sachets (2), calibration screwdriver, battery, protective case, and instructions.</p>	
Accessories	HI710007	blue shockproof rubber boot	
	HI710008	orange shockproof rubber boot	

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\* Limits will be reduced to actual sensor limits