HI 8314 - HI 83141

Portable pH/mV/Temperature Meter



HI 8314 is a portable pH meter designed to be rugged and easy-to-use, yet be reliable and practical.

It is ideal for education and for measurements on the field.

Simple pH calibration is performed manually through 2 trimmers. Measurements are automatically compensated for variations in temperature.

HI 8314 shows the reading together with the current mode (pH, mV or °C). A low battery indicator will alert the user when the battery needs to be replaced.

Two models are available:

- HI 8314 uses pH electrodes with DIN connector and internal temperature sensor.
- HI 83141 is provided with separate connectors for pH electrode (BNC) and temperature probe.

Specifications

		HI 8314	HI 83141
Range	pH	0.00 to 14.00 pH	
	mV	±1999 mV	
	Temperature	0.0 to 100.0°C	
Resolution	pH	0.01 pH	
	mV	1 mV	
	Temperature	0.1°C	
Accuracy (@20°C)	pH	±0.01 pH	
	mV	±1 mV	
	Temperature	±0.4°C	
pH Calibration		manual, 2 point, through trimmers (offset ±1 pH; slope: 85 to 105%)	
Temperature Compensation		automatic, 0 to 70°C (32 to 158 °F)	
Connector for pH electrode		DIN	BNC
Probes		HI 1217D pH electrode, double junction, gel filled, with internal temperature sensor, DIN connector and 1 m cable (included)	HI 1230B pH electrode (included) and HI 7669AW temperature probe (included)
Input Impedance		10^{12} Ohm	
Battery Type / Life		1 x 9V / approx.100 hours of continuous use	
Environment		0 to 50°C (32 to 122°F); RH max 95%	
Dimensions / Weight		164 x 76 x 45 mm (6.5 x 3.0 x 1.8") / 180 g (6.3 oz.)	

Accessories

HI 1217D	Combination pH electrode, gel filled, double junction, internal temperature sensor, DIN connector and 1 m cable	HI 7010L	pH 10.01 buffer solution, 500 mL bottle
HI 1230B	pH electrode, gel filled, double junction, Ultem® body, BNC connector and 1 m cable	HI 70300L	Electrode storage solution, 500 mL bottle
HI 7669AW	Temperature probe	HI 700661P	Electrode cleaning solution, 20 mL sachet, 25 pcs.
HI 76405	Electrode holder	HI 8427	pH/mV electrode simulator
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 931001	pH/mV electrode simulator with display
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 710015	Shockproof rubber boot, blue
		HI 710016	Shockproof rubber boot, orange
		HI 710022	Spare protective case

For a complete range of calibration, cleaning and maintenance solutions, see section F. For pH and ORP electrodes, see section E. For accessories, see section U.

Ordering Information

HI 8314 is supplied complete with HI 1217D pH electrode, calibration and cleaning solutions, calibration screwdriver, battery, protective case and instructions.

HI 83141 is supplied complete with HI 1230B pH electrode, HI 7669AW temperature probe, calibration and cleaning solutions, calibration screwdriver, battery, protective case and instructions.