



Waterproof pH Meters with Smart Electrodes and Log-On-Demand

HI 98140 and HI 98150 are two of the most innovative portable pH meters ever offered.

These instruments feature IP 67 waterproof protection, GLP (Good Laboratory Practice) capabilities and use the HANNA instruments' intelligent electrodes.

These pH electrodes incorporate a chip which memorizes the calibration data performed with a specific instrument. When the "intelligent" electrode is attached to the meter again, it is automatically recognized. This technology allows the operator to optimize time and efficiency with unsurpassed safety. It avoids erroneous measurements taken in the event the pH electrode is substituted after calibration. This series of electrodes also incorporates a temperature sensor, eliminating the need for an additional temperature probe.

HI 98140 and HI 98150 feature all the most advanced features of laboratory pH meters. Moreover they are provided with a dual level LCD which facilitates operation in dimly lit locations.

By pressing a button, these meters can store up to 500 measurements complete with date and hour. Stored data can be displayed later or downloaded to a computer through an RS232 serial port and the HI 92000 Windows® compatible software.

Specifications

		HI 98140	HI 98150
Range	pH		-4.00 to 19.99 pH
	mV	—	± 600.0 mV; ± 2000 mV
	Temperature		-20.0 to 120.0°C
Resolution	pH		0.01 pH
	mV	—	0.1 mV (± 400 mV); 0.2 mV (± 400 to ± 600 mV); 1 mV (outside)
	Temperature		0.1°C (-10 to 120°C); 1°C (<-10°C)
Accuracy (@20°C)	pH		± 0.01 pH
	mV	—	± 0.2 mV (± 400 mV); ± 0.4 mV (± 400 to ± 600); ± 2 mV (outside)
	Temperature		± 0.4°C (0 to 70°C); ± 1°C (outside)
pH Calibration		automatic, 1 or 2 point with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01)	
mV Calibration		—	automatic, 2 point at 0, 350 mV or 3 point at 0, 350, 1900 mV
Temperature Compensation		automatic, -20 to 120°C (-4 to 248°F)	
pH Electrode		HI 1618D smart electrode with temperature sensor, DIN connector and 1 m (3.3') cable (included)	
PC Connection		through RS232 serial port, using HI 920011 connection cable	
Power Supply		4 x 1.5V AA batteries / approx. 300 hours of continuous use (with backlight off) or 12 Vdc input	
Environment		0 to 50°C (32 to 122°F); RH max 100%	
Dimensions / Weight		196 x 80 x 60 mm (7.7 x 3.1 x 2.4") / 500 g (1.1 lb.)	

Accessories

HI 1618D	Smart pH electrode with Ultem® body and DIN connector	HI 77400P	pH 4 and pH 7 buffer sachets, 20 mL, 5 pcs. each
HI 3620D	ORP electrode with Ultem® body	HI 70300L	Electrode storage solution, 500 mL bottle
HI 76405	Electrode holder	HI 7061L	Electrode cleaning solution, 500 mL bottle
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 92000	Windows® compatible software
HI 7007L	pH 7.011 buffer solution, 500 mL bottle	HI 920011	Serial cable for PC connection
HI 7010L	pH 10.011 buffer solution, 500 mL bottle		

Ordering Information

HI 98140 and HI 98150 are supplied complete with HI 1618D smart pH electrode with internal temperature sensor, pH 4 and pH 7 buffer sachets, electrode cleaning solution, batteries, 12 Vdc power adapter, rugged carrying case and instructions.

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.