

Precision Simulators for pH and mV Meters



HI 8427 is designed specifically to simulate pH & ORP electrodes and to confirm proper functioning of your meter. Standard pH electrode ranges are selectable with a dial on the front panel. The pH range is pH 0, pH 2, pH 4, pH 7, pH 10, pH 12 and pH 14 with the mV range being -1900 mV, -350 mV, +350 mV and +1900 mV.

Manual temperature compensation from 0 to 50°C (32 to 122°F) allows temperature simulation. Provided with a universal BNC connector, this unit is also a high impedance tester, for cable and connector inspection with a leakage sensitivity of 109 ohm. The unique tester is a "one of a kind" in the industry that eliminates the need for very expensive megaohm meters.

It is sometimes difficult to work out whether a particular malfunction is due to the meter or the electrode. If you have been in this position, the HANNA instruments® precision HI 931001 pH/ORP electrode simulator is the perfect solution for you. By simply connecting HI 931001 to your meter's input socket and turning the dials, pH readings can be simulated from 0 to 14 pH in 0.01 steps. The output signals all correspond to pH values at 25°C and your pH meter should display the same values that can be seen on the simulator's LCD.

For the mV range, HI 931001 can simulate output from -1000 to +1000 mV in 1 mV steps.

Specifications

		HI 8427	HI 931001
Range	pH	0, 2, 4, 7, 10, 12, 14	0.00 to 14.00
	mV	-1900, -350, 350, 1900	-1000 to 1000
Resolution	pH	—	0.01
	mV	—	1
Accuracy (at 20°C)	pH	±0.1	±0.01
	mV	±5	±1
High Impedance tests		10 ⁹ Ohm	—
Temperature Compensation		manual, 0 to 50°C	all output values are simulated at 25°C
Battery Type / Life		1 x 9V / approx. 100 hours of use	1 x 9V / approx. 500 hours of use
Environment		0 to 50°C (32 to 122°F); RH max 95%	
Dimensions		185 x 82 x 53 mm (7.3 x 3.2 x 2.1")	
Weight		255 g (9.0 oz.)	320 g (11.3 oz.)

Accessories

HI 7858/1	BNC/BNC connection cable, 1 m (3.3') long	HI 7858/15	BNC/BNC connection cable, 15 m (49') long
HI 7858/3	BNC/BNC connection cable, 3 m (9.8') long	HI 710009	Shockproof rubber boot, blue
HI 7858/5	BNC/BNC connection cable, 5 m (16.4') long	HI 710010	Shockproof rubber boot, orange
HI 7858/10	BNC/BNC connection cable, 10 m (33') long	HI 710001	Soft carrying case
		HI 721316	Rugged carrying case

Ordering Information

HI 8427 is supplied complete with HI 7858/1 BNC/BNC connection cable (1 m, 3.3' long), battery and instructions.

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For accessories, see section U.