

pH and mV Precision Simulators



- Simulate output to discover malfunctions
- Simulate temperature
- Provided with universal BNC connector

HI 8427 is designed specifically to simulate pH and ORP electrodes to confirm proper functioning of your meter. Standard pH electrode ranges are selectable with a dial on the front panel.

Provided with a universal BNC connector, this unit is also a high impedance tester, for cable and connector inspection with a leakage sensitivity of 10^9 ohm. This unique tester is a "one of a kind" in the industry that eliminates the need for very expensive MΩ meters.

Sometimes it is difficult to recognize whether a particular malfunction is due to the meter or the electrode. 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 be able to check the span of your pH meter.

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



HI 710010
Shockproof Boot

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 (@ 20°C)	pH	±0.1	±0.01
	mV	±5	±1
Impedance test		10^9 Ohm	-
Temperature Compensation		manual, 0 to 50°C (32 to 122°F)	all output values are simulated at 25°C
Battery Type / Life		9V / approximately 100 hours of use	9V / approximately 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.)

ORDERING INFORMATION

HI 8427 and **HI 931001** are supplied with HI 7858/1 BNC/BNC coaxial cable

ELECTRODES

HI 7863	DIN/BNC connection cable, 1 m (3.3')
HI 7858/1	BNC/BNC connection cable, 1 m (3.3')
HI 7858/3	BNC/BNC connection cable, 3 m (9.8')
HI 7858/5	BNC/BNC connection cable, 5 m (16.4')
HI 7858/10	BNC/BNC connection cable, 10 m (33')
HI 7858/15	BNC/BNC connection cable, 15 m (49')

ACCESSORIES

HI 710009	Shockproof rubber boot, blue
HI 710010	Shockproof rubber boot, orange
HI 710001	Soft carrying case
HI 721316	Rugged carrying case