HI8427 · HI931001

pH/mV Precision Simulators

- Simulate pH or ORP sensors to troubleshoot your meter
- Simulate temperature
- Provided with universal BNC connector

HI8427 is designed specifically to simulate pH and ORP electrodes to confirm proper functioning of your meter. Standard pH and mV ranges are selectable with a dial on the front panel and pH can simulate sensor response at temperatures between 0 to 50°C.

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 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 HI931001 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.

For the mV range, HI931001 can simulate output from -1000 to +1000 mV in 1 mV steps.

Specifications		HI931001	HI8427
pH*	Range	0.00 to 14.00 pH	0, 2, 4, 7, 10, 12, 14 pH
	Resolution	0.01 pH	–
	Accuracy	±0.01 pH	±0.1 pH
mV	Range	-1000 to 1000 mV	-1900, -350, 350, 1900 mV
	Resolution	1 mV	–
	Accuracy	±1 mV	±5 mV
Additional Specifications	Impedance Test	–	10^9 Ohm
	Temperature Compensation	all output values are simulated at 25°C	manual from 0 to 50°C (32 to 122°F)
	Battery Type / Life	9V / approximately 500 hours of use	9V / approximately 100 hours of use
	Weight	320 g (11.3 oz.)	255 g (9.0 oz.)
	Environment	0 to 50°C (32 to 122°F); RH max 95%	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")	185 x 82 x 53 mm (7.3 x 3.2 x 2.1")
Ordering Information	**HI8427** and **HI931001** are supplied with HI7858/1 BNC/BNC coaxial cable		
Accessories	**HI710009** Blue shockproof rubber boot		

* Limits will be reduced to actual sensor limits