

## 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 <sup>9</sup> 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.