

# HI 931001

## pH and ORP Electrode Simulator with Display

It is sometimes difficult to work out whether a particular malfunctioning is due to the meter or the electrode. If you've been in this position and pondered on a simple way out, the Hanna pH/ORP electrode simulator might just be the solution for you. By simply connecting the HI 931001 to your meter's input socket and turning the dial, 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 +1000mV in 1 mV steps. With an incredible battery life of 500 hours, HI 931001 can be carried around from the lab to the plant to check all the pH/ORP meters on-site without any time loss. In addition to this, the display also gives a low battery warning.

HI 931001 is supplied complete with the HI 7858/1 one meter coaxial cable ending in two male BNC connectors.

- **Easy- to-Use.** Simply link up HI 931001 to the pH meter's electrode socket, turn the dial on the front panel and set your ideal value.
- **Multiturn Dial** with 0.01 pH steps from 1 to 14 pH for a precise pH simulation.
- **Portability.** HI 931001 is made handy and lightweight. With 500 hours of continuous battery life it can be carried around to check meters on-site without time loss.

SPECIFICATIONS		HI931001
RANGE	pH	0.00 to 14.00 pH
	mV	-1000 to 1000mV
RESOLUTION	pH	0.01 pH
	mV	1 mV
ACCURACY	pH	±0.01 pH
	mV	±1 mV
TEMPERATURE COMPENSATION		All output values are simulated at 25°C
CABLE		HI 7858/1 1 m cable with female BNC-BNC connectors (included)
BATTERY TYPE/LIFE		9 volt (alkaline battery)/500 hours of continuous use
ENVIRONMENT		0 to 50°C (32 to 122°F); 95% RH Max.
DIMENSIONS/WEIGHT		180 x 83 x 40 mm (7.1 x 3.3 x 1.6")/ 320 g (11.3 oz.)

## Operating Instruction HI931001 pH/mV Calibrator

### Specifications

Minimum Range:

0.00 to 14.00pH(@ 25°C)

-1000 to 1000mV

Display Resolution:

00.1pH

1mV

Accuracy:

pH(+/- 0.01)

mV(+/- 1)

Battery:

one 9-volt(included)

Battery Life:

approximately 600 hours

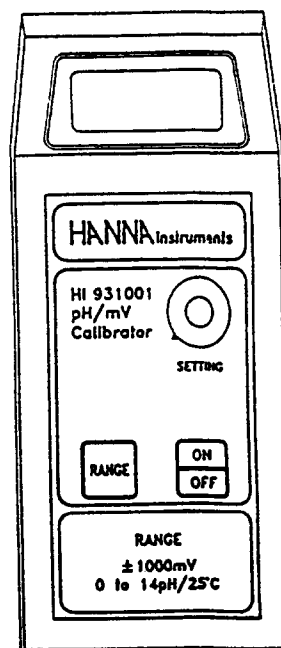
Weight:

approximately 250gm

(excluding accessories)

Accessories:

BNC 1m cable (HI7858/1)



### GENERAL DESCRIPTION

HI931001 is a portable pH/mV simulator designed specifically for calibrating pH and mV (ORP) meters. Two calibration ranges are provided from 0 to 14.00pH(@ 25°C) and -1000 to 1000mV. The instrument has a BNC connector output and supplied with a BNC cable.

### OPERATING INFORMATION

#### 1. pH Calibration:

- a. Connect the Calibrator BNC connector using BNC cable to the pH instrument.
- b. Ensure that your pH instrument is compensating at 25°C.
- c. Switch the calibrator on and select the pH "RANGE" mode.
- d. Turn the "SETTING" knob to any desired display and ensure that the pH instrument you are checking reflects the correct result.
- e. If not, adjust your pH instrument until you have obtained the correct reading (please refer to your pH instrument instruction manual).

#### 2. mV Calibration:

Similar procedure is applied here except that the "Range" mode is switched to mV. N.B Temperature compensation does not apply here.

#### 3. Battery:

In the event of the exhausted battery, two decimal point will display in between the two digit from the left and right. Slide the bottom back cover and replace a new one.

