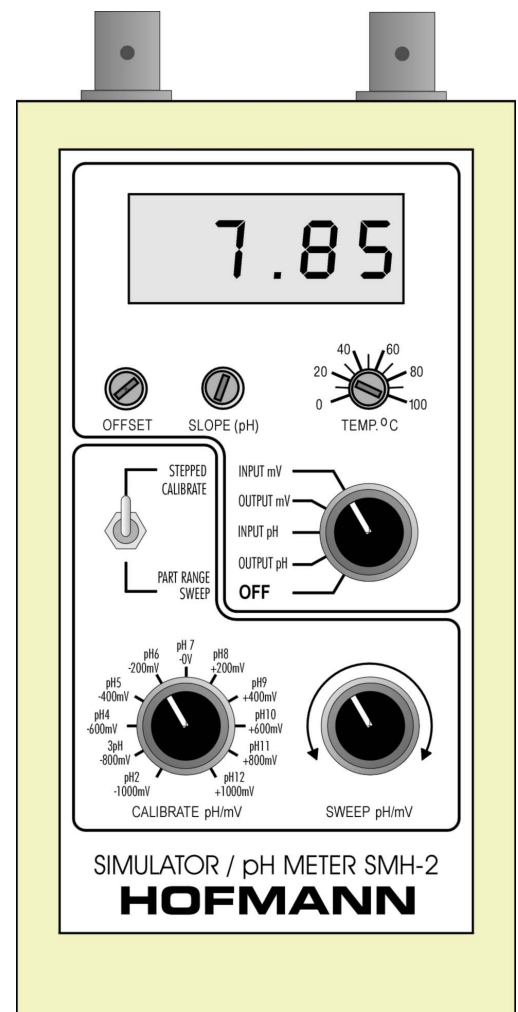


VERSATILITY IN MEASUREMENT

pH/mV METER / SIMULATOR SMH-2

- ❑ **M**ode selection for pH and mV simulation.
- ❑ **H**igh impedance electrode simulation.
- ❑ **BNC** sockets for coaxial cable connections.
- ❑ **I**deal to test and calibrate electrodes and controllers.
- ❑ **S**weep only part of the pH or mV range for accurate testing of set points.
- ❑ **U**se the pH/mV meter and simulator together for efficient trouble shooting.
- ❑ **T**he 9 volt battery is easily replaced in a separate compartment at the back of the simulator.
- ❑ **L**o - battery indicator.



pH/mV METER SIMULATOR

SMH-2

SPECIFICATIONS

Simulator

- Range pH:** 2-12pH in 1pH steps (*CALIBRATE mode*)
+/-2pH continuous, centered on
calibrate position. (*SWEEP mode*)
- Range mV:** -1000mV to +1000mV in 200mV steps
(*CALIBRATE mode*)
+/- 400mV continuous, centered on
calibrate position. (*SWEEP mode*)
- Output
resistance:** Selectable for 10kOhms direct and
100 MOhms high impedance output.
- Stability:** Drift at constant ambient temperature less
than 0.01pH/day, non cumulative.
Change with temperature less than 0.01pH
(0.05mV)/10°C.
- Temperature
compensation:** Internally fixed for pH at 20°C (57mV/pH)
- Output:** Panel mounted BNC socket and 1 metre
coaxial cable with BNC connector.

pH/mV Meter

- Range:** 0-14 pH 0.01 pH resolution
+/- 1999mV 1mV resolution
- Display:** Liquid crystal display 3 1/2 digits
- Input resistance:** suitable for electrodes up to
1000 MOhms membrane resistance
- Temperature
compensation:** Manual adjustment, 0-100°C
- Isopotential:** Pre-set at 7 pH .
- Output:** Panel mounted BNC socket

SMH-2

- Power supply:** 9 volt battery NI-CAD preferred for longer
performance. One battery will last
for approximately 100 hours operation.
- Indicator:** LO-BAT sign shows on the LCD display if
battery voltage drops below 8.5 volts.
- Dimensions:** 82(W) x 152(H) x 30(D)mm.

FEATURES

Simulator

Finding and isolating the source of a fault fast is of primary importance when carrying out a service call, making good calibration instruments essential for efficient calibration and servicing of pH or mV controllers. The **SMH-2** simulator connected to a controller electrode input enables the operator to test the operation of the unit and pumps or valves attached. Using the CALIBRATE pH/mV function will test the accuracy of the controller while using the SWEEP pH/mV function tests all connected pumps or valves for their response to signal changes of the controller.

A 4-20mA current output connected to a central processing consol can equally be tested for its functionality.

The electrode simulation featured with the **SMH-2** enables the operator to test for possible controller input problems and cable impedance or cable leakage faults.

pH/mV Meter

The pH/mV meter will further assist in troubleshooting an installation to determine existing faults. The pH or mV reading of the meter versus the installed controller will quickly point to a potential problem with the electrode or other equipment.

Example: Isolation problems caused by earth loops will show immediately if the controller pH reading is incorrect and the portable meter reading agrees with the known value.

The **SMH-2** will act as a reliable and accurate portable pH/mV meter if connected and calibrated to an electrode.

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