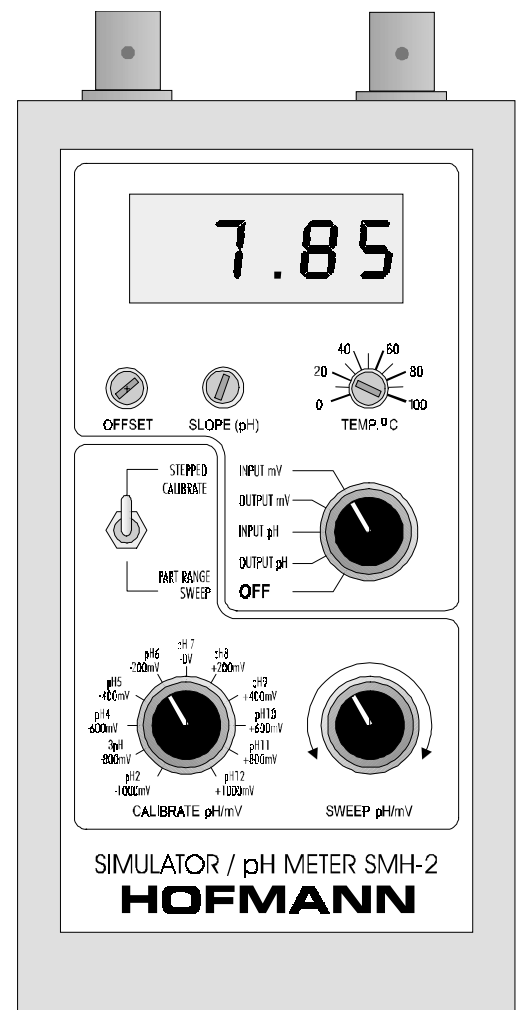


# VERSATILITY IN MEASUREMENT

## *pH/mV METER / SIMULATOR SMH-2*

- ❑ Mode selection for pH and mV simulation.
- ❑ High impedance electrode simulation.
- ❑ BNC sockets for coaxial cable connections.
- ❑ Ideal to test and calibrate electrodes and controllers.
- ❑ Sweep only part of the pH or mV range for accurate testing of set points.
- ❑ Use the pH/mV meter and simulator together for efficient trouble shooting.
- ❑ The 9 volt battery is easily replaced in a separate compartment at the back of the simulator.
- ❑ Lo - battery indicator.



pH/mV METER SIMULATOR

# SMH-2

# SIMULATOR / METER 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.

SOLD AND SERVICED BY



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