

Calibration Accessories for All D.O. Sensors



D.O. Signal Simulator

D.O. Signal Simulator

The simulator isolates the transmitter by mimicking the load of a D.O. sensor. In doing so, the simulator can help confirm whether fluctuations in the display are caused by the sensor or by EMF interferences. A two position switch allows simulation of either 0% or 100% saturation.

Part Number

AM-9222



Single Station Module
(Battery Powered)

Polarization Modules

D.O. sensors may need to be polarized for several hours prior to calibration and use. Polarization modules allow the sensor to be polarized without tying up a transmitter.

Battery Powered Polarizer

The single station, battery operated module attaches directly to any OxyProbe[®]. It uses a lithium battery, with a five year life span, which should be checked annually. This polarization module allows maximum portability of a polarized sensor.

Part Number

AM-9221

Four Station Module
(Line Powered)



115 VAC Powered Polarizer

The four-station module plugs into any 115 VAC outlet to continuously polarize up to four sensors at 675 mV. The included cables connect the sensors to the polarizer. This polarization module has an additional terminal to check the battery of a single station polarization module.

Part Number

E-1807-AAM-DZ



Calibration
Caps

Calibration Caps

Calibration caps slide onto the sensing end of a sensor providing an easy way to flush with N₂. This makes it easier to zero the sensor and check its responsiveness and calibration. Any tubing with a 6 mm (1/4") i.d. attaches easily to the barbed end of the cap. The conical shape of the cap helps prevent the tip of the sensor from accidentally bumping the bottom of the cap, which would damage the membrane.

Part Number

Part Number	Sensor Length
AM-9351	12 mm sensor
AM-9293	19 mm sensor
AM-9292	25 mm sensor

pH & D.O. Sensor Simulator

- NEW, REDESIGNED SIMULATOR WITH DIGITAL DISPLAY
- A TROUBLESHOOTING DEVICE for both pH and D.O.
- USED FOR TESTING CABLES AND TRANSMITTERS
- NEW, RUGGED ENCLOSURE

HOW IT WORKS

pH

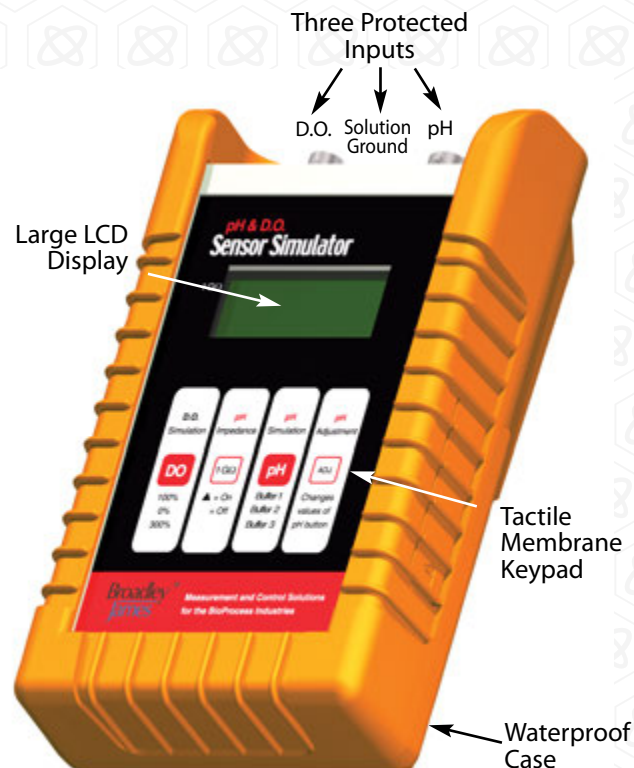
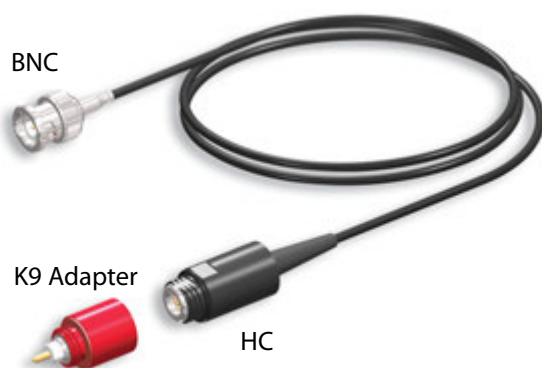
When a pH meter is reading incorrectly the simulator helps determine if the problem is related to the electrode or to the transmitter. It simulates pH and mV values: from 0-14 pH units in 1 pH unit increments (± 414 mV). The simulator operates on a 9-volt battery and has a BNC connector, which attaches to the pH cable adapter.

Dissolved Oxygen

The simulator isolates the transmitter by mimicking the load of a D.O. sensor. The 4-pin connector attaches directly to the D.O. cable, in place of the sensor. In doing so, the simulator can help confirm whether fluctuations in the transmitter display are caused by the sensor, or caused by problems with the instrument or cable.

pH SIMULATOR CABLE & ADAPTER

One of the accessory pH cables included with the simulator allows the HP or K9 plug on the instrument pH cable to be attached to the BNC jack on the simulator.



FEATURES AND APPLICATIONS

Troubleshooting Device Isolates Transmitter

The Broadley-James pH & D.O. Simulator allows the operator to troubleshoot a questionable pH or D.O. measurement by isolating the transmitter and cables from the actual pH and D.O. sensor inputs.

Diagnostic Tool Simulates Sensor Input

It simulates an ideal pH electrode or D.O. sensor. Simply attach the simulator in place of the pH electrode or D.O. sensor, and check for the appropriate responses from the transmitter.

Technical Specifications

- pH Output: 0-14 pH in 1 pH increments
- D.O. Output: 0% sat (0 nA)
100% sat (~67 nA)
300% sat (~200 nA)
- Auto Off Feature
- Tactile Membrane Keypad
- Includes 3 different pH cables to accommodate the most common transmitter connections

ordering information

Part Number	Description
AM-9504	pH & D.O. Sensor Simulator Kit