

# **MSA** Sirius™ Multigas Detector Sensor Replacement Kit

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This instruction sheet contains instructions for replacing the following Sirius Multigas Detector Sensors:

- Combustible Sensor
- Oxygen (O<sub>2</sub>) Sensor
- Carbon Monoxide (CO) Sensor
- Hydrogen Sulfide (H<sub>2</sub>S) Sensor

For Certificates, Approvals, Response Factors, Sensor Performance Specifications, and other information, refer to the Sirius Detector Instruction Manual (P/N 10048887).

## **Sensor Replacement**

1. Verify the instrument is turned OFF.
2. Remove the battery pack.
3. Remove the four case mounting screws from the back of the case.
4. Remove the back case.

5. Gently lift out and properly discard the sensor to be replaced.
  - Use a flat-blade screwdriver to pry the CO and/or H<sub>2</sub>S sensors from their holders.

**NOTE:** If a Long Term O<sub>2</sub> sensor is being installed, remove and discard the shorting clip that is connected to its pins.

6. For the combustible and/or O<sub>2</sub> sensor, carefully align the new sensor pins with the appropriate sockets on the (lower) printed circuit board. Press gently into position.
  - If a combustible and/or an O<sub>2</sub> sensor is not to be installed, ensure that the appropriate opening in the sensor gasket is sealed with a sensor cover label (tape disc) (P/N 710487).
7. For the CO and/or H<sub>2</sub>S sensors, carefully press them into their appropriate socket.
  - The CO sensor has a filter disc attached to it. Be careful not to damage the filter disk during handling and installation. Be sure the filter disk is facing upward when installed.

- The H<sub>2</sub>S sensor is marked "H<sub>2</sub>S" on its top side. Be sure that the "H<sub>2</sub>S" mark and the gas inlet hole are facing upward when installed.
- If a CO and/or an H<sub>2</sub>S sensor is not to be installed, ensure that an "inactive sensor plug" (P/N 10046292) is installed properly in its place.

**NOTE:** The CO and H<sub>2</sub>S sensor positions must not be swapped. Verify that they are in the proper holder as indicated on the (upper) printed circuit board.

8. Re-install the back case.
9. Re-install the four case screws.
10. Re-install the battery pack.
11. Turn ON the instrument and allow the new sensor(s) to equilibrate with the environment temperature for approximately five minutes.

**⚠ WARNING**

**Verification of calibration response is required; otherwise, the instrument will not perform as required, and persons relying on this product for their safety could sustain serious personal injury or death.**