



Technical Support Note

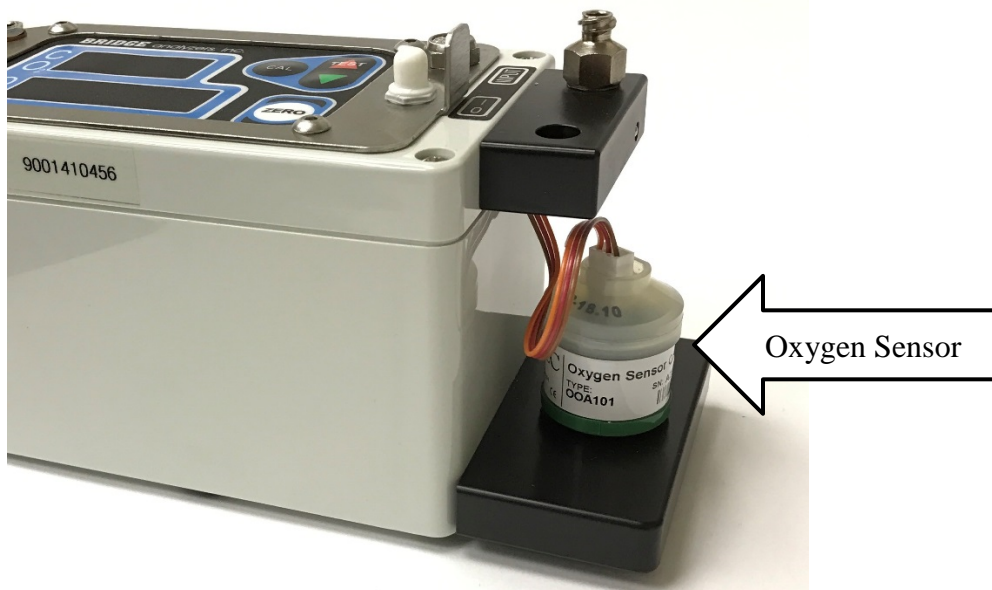
Title – ‘Lo’ Indication on the O2 Display and Instructions for Changing the O2 Sensor for Modified Atmosphere Packaging 9000, 9001 Series Analyzers.

TSN Number: 11

File:S:\Bridge_Analyzers\Customer_Service_Documentation\Technical_Support_Notes\11 Map O2 Analyzer Changing Instructions.docx

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The oxygen sensor (located under the black block next to the power switch) is an operator serviceable item. It is gradually consumed over time. Normal life is 24 months.

The analyzer automatically tests for sensor degradation during the Zero sequence, and if degradation is detected, ‘Lo’ is flashed on the O2 display, indicating that the O2 sensor has low output and is due for replacement. This prompt requires confirmation by the user and can be cleared by pressing any button on the front panel. The analyzer continues to operate normally once the prompt is cleared.

Note: Once ‘Lo’ appears, there is about 1 month of O2 sensor usable life remaining, and the O2 sensor should be replaced within that time.

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Instructions for replacing the O2 sensor:

1. Turn the analyzer power off, remove the external power charger and the sampling line if necessary for analyzer access and remove the analyzer from the soft-storage case.
2. Remove the round black cover on the O2 sensor.
3. Remove the 3 pin connector from the top of the O2 sensor. Care should be taken, as some force is necessary to release the O2 sensor connector due to its friction lock. Do not pull on the cable itself as this may cause the cable connection to fail at the connector. Use a flat head screwdriver to push away the flat retainer if necessary.
4. Once the cable is released, unscrew the O2 sensor from its mounting block. This may be done by gripping the sensor housing with your fingers. The O2 sensor has an O-ring gas seal at its base, so there may be considerable starting friction, but once released it should unscrew relatively easily.
5. Screw the new sensor in the threaded hole in the sensor mount block, making sure that the O2 sensor is installed against the O-ring at the base of the sensor to make a good gas seal. Be careful not to over-tighten the sensor, as it will make future removal difficult.
6. Install the cable connector. Note the orientation of the connector installation; it has an orientation tab cutout for the header. It should go on smoothly and not stick. Replace the black plastic cover.
7. When complete, power up the analyzer and perform a Zero function. This will calibrate the O2 sensor to room air oxygen. When you see a successful Zero function complete (ie. no 'Lo' indication), you may re-install the analyzer in its soft case.
8. You may have to reset the Low and Hi Oxygen calibration points with the new sensor. Although it self-calibrates on room air, and should be very close to the correct reading, sensors vary slightly from one to another, so if you are looking at either very low levels of oxygen (less than 0.10%) or very high levels of oxygen (greater than 75%), you should check the new sensor for accuracy at these test levels.

Changing the O2 sensor generally does not require significant calibration changes. Follow the normal measurement processes, and the analyzer should perform as it did with the previous O2 sensor.

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