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## **AtmoSense In Line Oxygen Monitor No. 5255500**

### **Operation**

The AtmoSense In Line Oxygen Monitor provides a digital readout from 0-1000 ppm oxygen with a resolution accuracy of 0.1 ppm from 0 to 200 ppm and a resolution accuracy of 1 ppm from 200-1000 ppm. A 4-20 mA output signal with 0-5 volts output signal for transmission of live data to a PC is provided. The oxygen monitor can be configured with up to 3 alarm levels and 3 relays. The AtmoSense In Line Oxygen Monitor is rated for general purpose service as low as 1 ppm. An initial certificate of calibration comes with the AtmoSense In Line Oxygen Monitor and is calibrated between 90-199 parts per million. The AtmoSense In Line Oxygen Monitor comes with an instruction manual with regular maintenance and calibration determined and scheduled as needed by the end user. The AtmoSense In Line Oxygen Monitor was designed to be operated outside the glove box in line with the AtmosPure Re-Gen Gas Purifier. Always order a Circulation Tubing Kit No. 5441808 to properly connect the AtmoSense In Line Oxygen Monitor to the controlled atmosphere glove box and in line with the AtmosPure Re-Gen Gas Purifier. The 50/60 Hz Oxygen Monitor is powered from 100VAC, 115VAC, or 208/240VAC and it automatically adjusts its 12 VDC input voltage. A simple 100-115VAC, US style power cord with IEC 320 C14 plug is provided for your convenience. For international use, order the following power cords:

1332600, for 230V British (UK)  
1336100, for 230V Schuko (Europe)  
1332700, for 230V China/Australia  
1338000, for 230V N. America  
or  
1305800, for 100-115V N. America/Japan

### **Installation Procedure**

1. Place the Oxygen Monitor in a visible location such as on top of the transfer chamber or on top of the Pressure Controller. See diagram on page 2.
2. From AtmoSense Circulation Tubing Kit No. 5441808, run 41" (1041 mm) tubing from the glove box to the AtmoSense Oxygen Monitor and then 58" (1473 mm) tubing to the AtmosPure Re-Gen Gas Purifier.
3. Reset the supplied hose barb connectors and hose clamps to blue hoses from step 2.
4. Refer to the glove box and AtmosPure Re-Gen Gas Purifier manuals to properly set the orientation of the large ferrules, small ferrules, and compression nuts.

5. Route the newly cut blue hoses per the diagram on page 2. Tighten all compression fitting nuts 1-1/4 turns past hand tight to properly swage the ferrules for leak tightness.  
**Note: Improper tightening or orientation can cause leaks with poor results.**
6. Installation of the plumbing for the AtmoSense Oxygen Monitor is now complete. Do not turn on the AtmoSense Oxygen Monitor yet.
7. Now purge and fill the glove box to low ppm levels near 1000-3000 ppm by following the glove box manual as a guide.
8. Next, turn on the AtmosPure Re-Gen Gas Purifier to remove oxygen and moisture below 1000-3000 ppm.
9. Plug in the AtmoSense Oxygen Monitor to continuously monitor oxygen levels exiting the glove box.

