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AtmoSense In Line Moisture Monitor No. 5255600

Operation

The AtmoSense In Line Moisture Monitor provides a digital readout from 0-12,310 ppm moisture (0%-52% RH) with a resolution accuracy of 5 ppm (2°C dew point) measured at 20 ppm (-60°C dew point). The AtmoSense In Line Moisture Monitor is rated for general purpose service as low as 0-20 ppm. An analog output signal of 0-5 volts is provided from -50°C to +10°C dewpoint (64 to 12310 ppm). Autocalibration is integrated between 20-1250 parts per million and is carried out every 30 minutes. The AtmoSense In Line Moisture Monitor comes with an initial calibration certificate and instruction manual. The AtmoSense In Line Moisture 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 Moisture Monitor to the controlled atmosphere glove box and in line with the AtmosPure Re-Gen Gas Purifier. The 50/60 Hz Moisture 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 Moisture 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 Moisture 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 Moisture Monitor is now complete. Do not turn on the AtmoSense Moisture 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 Moisture Monitor to continuously monitor moisture levels exiting the glove box.

