

INSTALLATION PROCEDURE



OAM II OUTDOOR AIRFLOW MEASUREMENT STATION

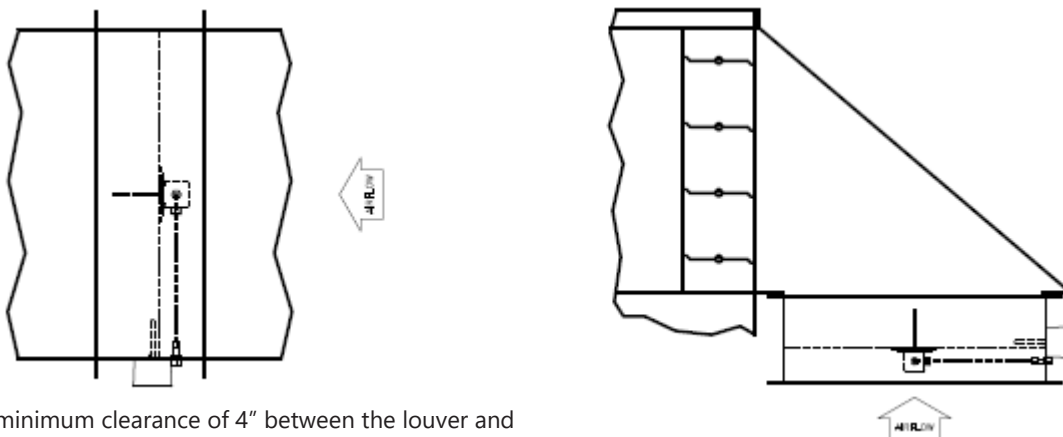
INSPECTION & HANDLING

- The OAM II Outdoor Airflow Measurement Station should be carefully inspected for damage prior to installation. Report damage to your freight department, or contact delivery carrier.
- Almost any means of handling the station can be utilized depending on the size and weight of the station, however, it is important not to drop or mishandle such that damage is done to the expanded metal screen, sensor, connection fittings, or flanges.

GENERAL INSTALLATION

- Each Station has an airflow arrow on the exterior to assist in correct orientation relative to the direction of the airflow entering the inlet or in the duct.
- The Station can be attached to adjacent ductwork or the outside air inlet by means of its 90° connection flanges. Connection flanges are not pre-drilled, allowing a choice of fastener types, sizes and spacing consistent with similar elements in the ductwork and standard industry practices, to ensure an airtight installation.
- Typical ducted and air handler inlet installations are shown in Figure 1.
- If the Station is to be connected directly to a downstream damper be sure that damper blades do not extend into the Station's casing.

CAUTION: The OAM II Outdoor Airflow Measurement Station should not be used to strengthen or support connecting ductwork and holes should not be drilled into the casing other than the connecting flanges.



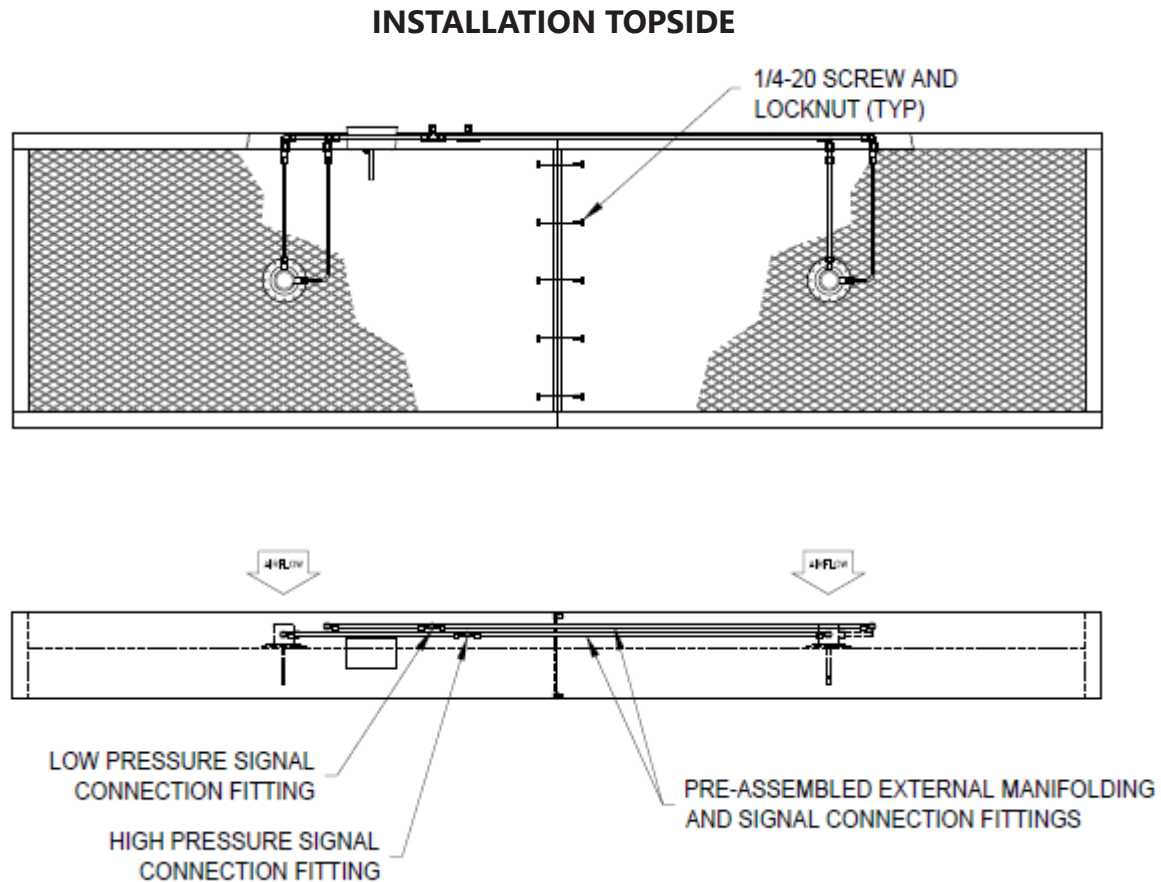
Maintain a minimum clearance of 4" between the louver and the edge of the damper blades when damper is fully open. The recommended distance between tip of the OAM II uni-sensor and the edge of the 100% open damper blade should be at least 2".

We recommend to remove the rain hood and mount vertically before the damper when possible and when there are rain hood has filters.

Figure 1

SPLIT STATIONS

- Large Stations with dimensions greater than 96" in height or width are split into multiple smaller Stations for shipment, and require field assembly. Assembly hardware is provided. See Figure 2 for the general assembly diagram.



SIGNAL CONNECTIONS

- Signal tubing between the OAM II Outdoor Airflow Airflow Measurement Station and its corresponding Monitor may be 1/4" OD if the distance is 200' or less. Signal tubing and fittings are not provided.

CAUTION: External fittings on the OAM II Outdoor Airflow Measurement Station must not be rotated or twisted during installation of the signal lines.

SIGNAL CONNECTIONS (continued)

- Air Monitor recommends that signal tubing between the station and transmitter be 1/4" OD stainless steel or copper. Use tees or manifolds when combining multiple sensor signals at the transmitter input. UV resistant flexible plastic tubing **specifically designed for outdoor use** may also be used.
- For applications which may experience condensation in the signal tubing, the use of drip legs for each signal line is strongly recommended, to avoid migration of water into the transmitter. See Figure 3.

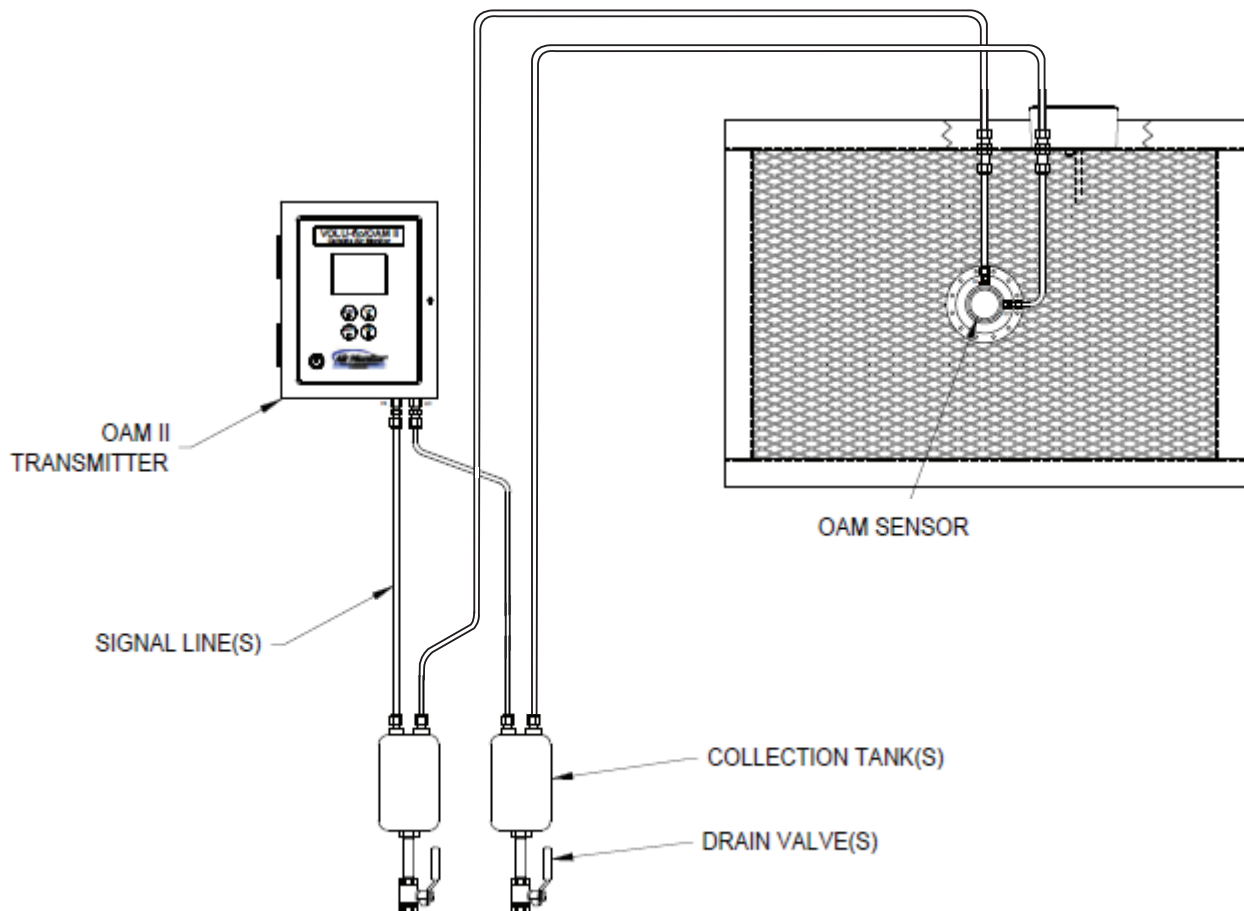


Figure 3

- The signal connection fittings at the bottom of the Monitor enclosure are 1/4" stainless steel compression; the signal connections on the Uni-Sensor are 1/8" FPT. The Low Pressure fitting on the Monitor enclosure connects to the 'L' (low pressure) port on the Uni-sensor; the High Pressure fitting connects to the 'H' (high pressure) port on the Uni-Sensor.
- After tubing is completed, all signal lines should be inspected and lead tested prior to operation.

TEMPERATURE SENSOR JUNCTION BOX

- The Station has a junction box containing a 3-wire RTD temperature sensor. The red, black, and white wires connect to the terminals on the Monitor as indicated below, Figure 4. Interconnecting wire/cable and conduit are not provided.

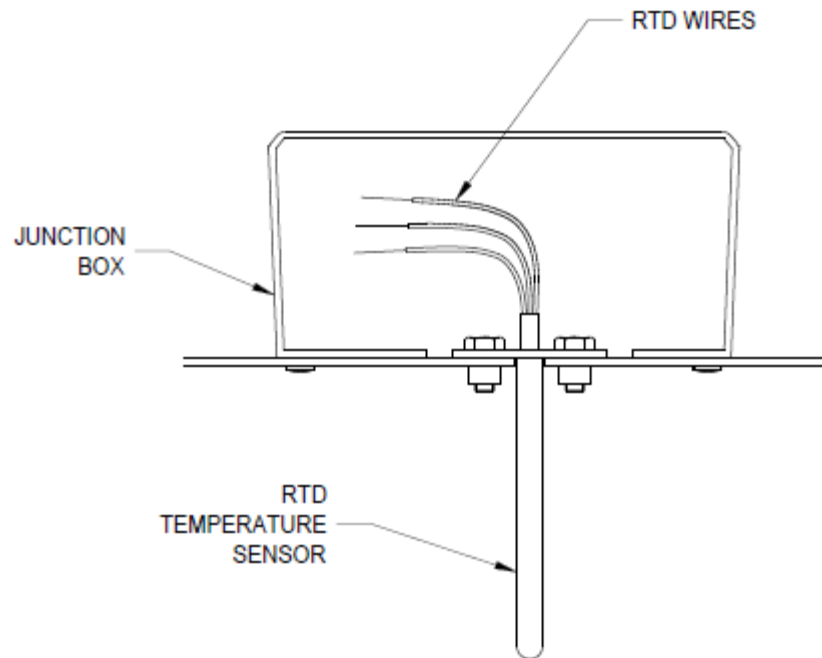


Figure 4

Terminal on VOLU-flo/ OAM Station	Terminal on VOLU-flo/ OAM Module
Red	1 (Rb2)
White	2 (Rb1)
Black	3 (Ra)

CUSTOMER SERVICE

Air Monitor Corporation provides in-house technical support for all our products,
if a problem arises contact Air Monitor

Phone: 727-447-6140
hvacsales@airmonitor.com
www.airmonitor.com/hvac/
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