

INSTALLATION INSTRUCTIONS FOR AMB VAPOR MONITORING **TELEMETRY PANELS**

Tools & Materials Required

- **Not Included**
 - Drill with appropriate bits
 - Slotted screwdriver
 - Slotted 1/8" screwdriver
 - Tape measure
 - Anchors
 - Washers
 - Fasteners
 - Level
 - Needle Nose Pliers
 - Air Compressor
- **Included**
 - 2" Conduit Nipple, Rings, and Bushings
 - External antenna bases
 - Manual Pressure Check Tube
 - 4" PVC Bushing

1. Mark Port Box Mounting Holes

- Using the box mounting diagram (located after step 13), mark out the mounting holes on the wall for the port box
- Recommended installation height: The bottom of the port box recommended 30 inches off the floor.

2. Mount Port Box

- Drill holes at the marked spots.
- Insert appropriate wall anchors if needed, depending on the wall material.
- Route the PTL Tubes through the bottom of the port box.
- Securely mount the port box by aligning the holes with the anchors and fastening the port box into place.

3. Install Conduit Nipple & Bushings on Port Box

- Install the 2" conduit nipple with rings and bushing into the top hole of the port box.
- Install the 4" PVC Bushing through the bottom hole of the port box into the 4" PVC socket connector located beneath the port box on the tubing stub up.

4. Mark Communication Box Mounting Holes

- Measure 1.5 inches above the top of the port box to the bottom of communication box for communication box placement.
- Mark mounting holes for the communication box.

5. Mount Communication Box

- Drill holes at the marked spots.
- Insert appropriate wall anchors if needed, depending on the wall material.

- Slide 2" conduit nipple into the bottom hole of the communication box.
- Securely mount the communication box by aligning the holes with the anchors and fastening the communication box into place.

6. Install Rings & Bushings on Communication Box

- Inside the communication box, install rings and bushing on the 2" conduit nipple coming from the port box.

7. Route Wires & Tubes

- Route all necessary wires and tubing from the port box up through the conduit nipple into the communication box.

8. Wire Connections (Communication Box)

- Remove necessary raceway covers inside of the communication box to conceal the wires.
- Connect labeled wires to the corresponding terminals on TB3 inside the communication box.
- Tighten terminals to 0.40 Nm and ensure wires are secured.
- Place raceway covers back on the raceways.
- If CFM Sensors are used connect the power and communication wire to the corresponding terminals.

9. Tube Connection (Sensor)

- Connect the tube from the port box to the push-to-connect fitting on the PTL sensor.

10. Antenna Installation

- Disconnect the cellular antennas from the modem located in the communication box.
- Mount the antennas onto the provided external antenna bases and place on top of the communication box.
- Connect external antenna base connection to modem.

11. Power Connection

- Plug the power cord into the designated power source.

12. Power Up

- Flip the breakers in the communication box to the ON position.
- Allow the system to boot. The OPTA is online when the blue status indicator light is illuminated.

13. Connect PTL Tubes to Solenoids

- Collect a differential pressure reading directly from the pressure test port tube utilizing a digital manometer or the Manual Pressure Check Tube.
- Connect the labeled PTL tube to the corresponding labeled solenoid push to connect fitting inside of the port box.
- Collect differential pressure reading by opening the solenoid and verify it matches the differential pressure reading that was collected directly from the pressure test port tube.
- If any of the PTL Tubes are clogged blow them out with an air compressor to clear the tube.
- If the port box has pressure switches connect the corresponding pressure switch to the appropriate tube.

Completion:

Once these steps are completed, the AMB Vapor Monitoring Telemetry Panel will be fully installed and operational. Download the Arduino IoT Cloud Remote app from the app store and login with the provided login information to control the Telemetry System. Make sure to check all connections and ensure that the system is functioning as expected. Additional drawing details and visual installation examples can be found under the specifications tab located at ambvapormonitoring.com

