

## OPERATION INSTRUCTIONS FOR AMB VAPOR MONITORING

### TELEMETRY PANELS

#### 1. Telemetry System Power

- Plug the power cord into the designated power source.
- 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.

#### 2. Dashboard Display

- Login to the Arduino cloud and access the dashboard via the mobile app or website.
- All sensor readings should be live on the dashboard.
- Ensure the date and time is correct and that the clock is ticking.
- The Default schedule, located at the bottom of the dashboard, is set for 10 minutes (600,000 milliseconds) per solenoid with a 1-second (1,000 milliseconds) overlap, Modify as desired.
- The displayed graphs show the recorded data. Modify as desired.
- Sensor status indicators are located at the bottom of the dashboard. If an indicator is **OFF** and red, then that sensor is not communicating.

#### 3. Individual PTL Check

- Switch the **Manual Mode** toggle to the **ON** position.
- Switch the PTL that is activated to the **OFF** position. The status indicator for that PTL should display **OFF** and turn **RED**.
- Switch the desired PTL switch to the **ON** position. The corresponding PTL status indicator should display **ON** and turn **Green**.
- The displayed Differential Pressure value represents the open PTL reading.
- Return the PTL Zone that was originally on to the **On** position when finished. The continuous cycling of the PTLs will resume.
- For individual pressure checks over one hour the **Emergency Stop** toggle must be **ON**.

#### 4. Data Download

- Follow the Data Download Direction located under the **Specifications** tab at [ambvapormonitoring.com](http://ambvapormonitoring.com)

#### 5. Telemetry Alerts

- If a monitored value is outside the setpoint, an alert will be sent via email and push notification to the mobile app. Alerts include:
  - PTL Differential Pressure Reading
  - VR Pressure Reading
  - CFM Reading
  - VR Status

## 6. Audible and Visual Alerts

- Audible and Visual Alerts occur when a Vent Riser Fan fails. Directions for the Audible and Visual Alert is displayed on the front of the communication box and reads:  
System Warning
  - Condition: If the audible alarm is active and the status LED is illuminated red.
  - Action: Open the communication box and press the “USER” button on the Opta to silence the alarm.
  - The number of red light blinks indicates which vent riser fan has failed.
  - Follow Up: If the vent riser does not return to normal operation and the panel LED does not turn steady green within 72 hours, contact a qualified vapor mitigation contractor to service the fan within seven days.
- To remotely silence the audible alarm, switch the **VR Alarm Ovr**d toggle to the **ON** position. The **VR Buzzer** status indicator will turn to **RED** and the buzzer will be silenced.
- Audible and Visual Alarms will continue to function if the remote monitoring is not renewed and the Telemetry System is offline, provided the Telemetry System remains powered.

## 7. Manual Differential Pressure Checks

- Disconnect the PTL tube from the solenoid.
- Disconnect the manifold tube at the push-to-connect coupler in the communication box.
- Using the provided Manual Pressure Check tube, connect the PTL tube directly to the differential pressure sensor. The displayed reading represents the differential pressure of that PTL.

## 8. Calibration

- Follow sensor specific calibration frequencies and directions directly from the sensor data sheets. Sensor models available on AMB Cut Sheet.

Please contact AMB Vapor Monitoring with any questions or visit [ambvapormonitoring.com](http://ambvapormonitoring.com).

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