

# Quick Start Guide PureAire Methyl Bromide Monitor

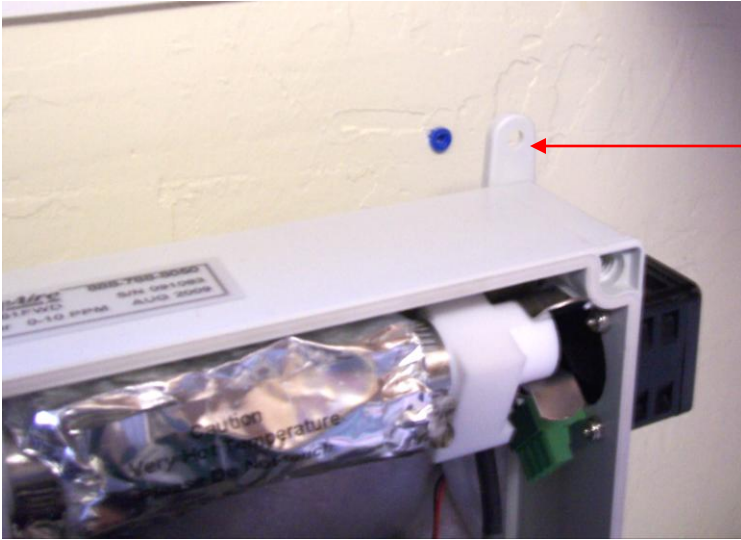


Carefully unpack the monitor from the shipping carton. After removing from the carton, unwrap any bubble packing around the monitor

Remove the four cover fastening screws using a Phillips screwdriver

**NOTE:** The screws are captive and will not release from the cover





**Select a vibration free surface and mount the monitor on a wall or unistrut channel.**



**Rotate the mounting tabs on all four corners of the enclosure base, align and fasten to the mounting surface.**



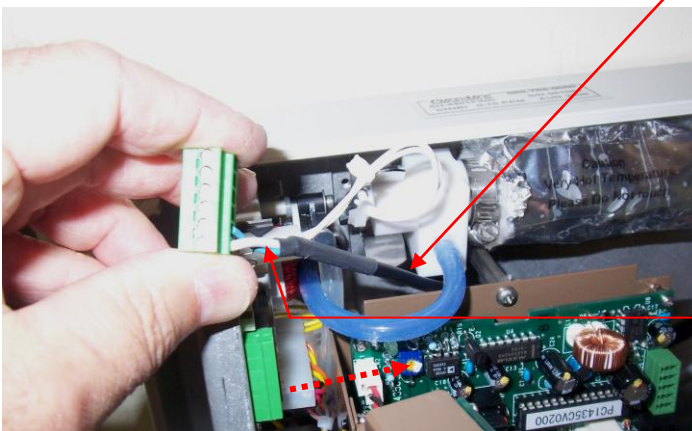
**NOTE:** The power supply shown is optional and supplied by PureAire.

You may use any regulated 24VDC 2 amp power supply

Remove the 24VC regulated table top power supply from the packing and thread the power lead trough the strain relief on the bottom of the monitor's enclosure.

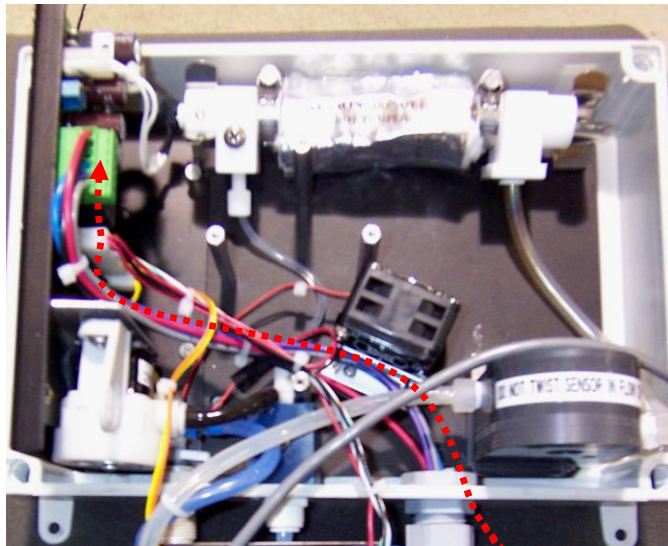


Run the power cord behind the electronics housed in the brown enclosure



Remove the 6 pin Phoenix connector from the power board and terminate the positive and common leads from the power supply to pins 1 & 2 on the Phoenix connector. Do not remove the jumper that is installed between pins 2 and 3.

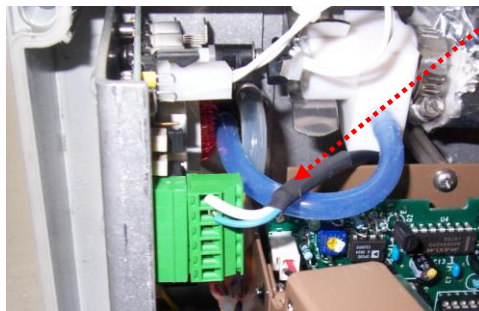




Routing of the power cable.

(NOTE: *Photo shown with transmitter removed from the enclosure*)

Power supply leads



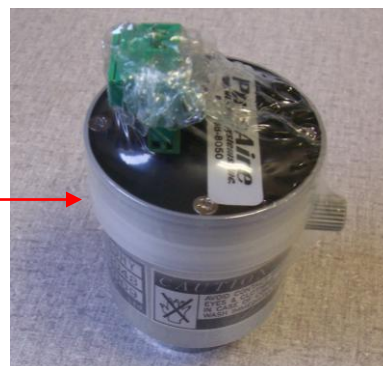
Remove the spare parts from the packing box.

NOTE: The contents include:

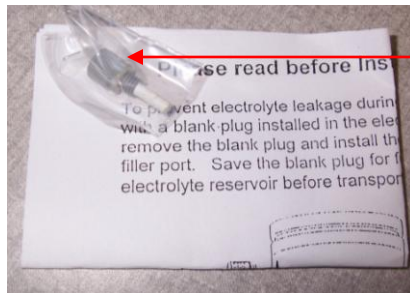
- 1ea. Sensor cell
- 1ea. Sample filter
- 1 btl. Electrolyte
- 1pk. Membranes
- 1ea. Pipette



Sensor cell



**Carefully  
remove the  
plastic shrink  
wrap from the  
sensor cell**



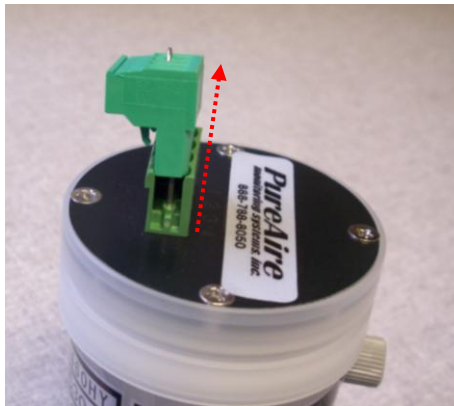
**Remove the breather  
plug from the  
packing material  
enclosed with the  
sensor cell.**



**Remove the blank  
plug from the sensor  
cell and replace with  
the breather plug  
with the sensor cell.**

**NOTE: Save the  
blank plug. Insert it  
when the cell is  
removed from the  
monitor and stored**





Remove the shorting pin from the sensor cell.

**NOTE: Save the shorting plug. Insert it when the cell is removed from the monitor and stored.**

Before installing the sensor cell into the flow cap, insure that the box nut covering the membrane is tight. Grip the box nut with your fingers and twist the cap until it does not turn.



Plug in the 4 pin Phoenix connector to the sensor cell

Install the sensor cell into the flow cap by gently rocking the cell and pushing straight down until it seats.

**Note: A small gap between the cell and flow cap is normal.**  
(The cell box nut seats to the inside of the flow cap)

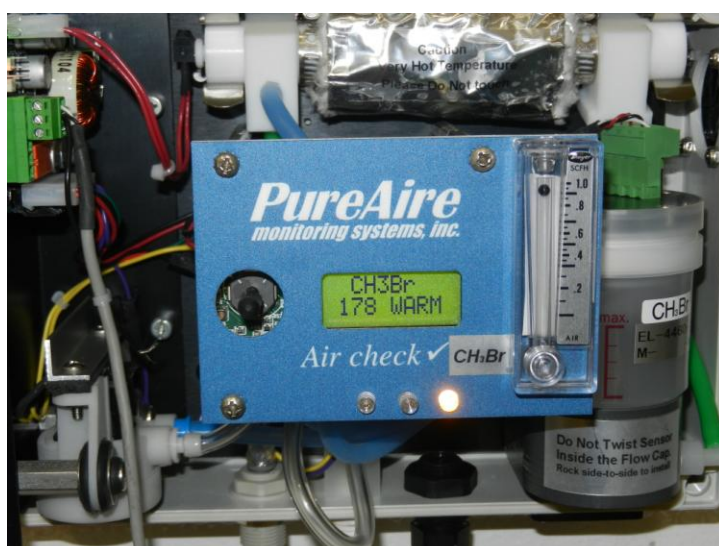
**NOTE: NEVER TWIST THE SENSOR CELL INSIDE THE FLOW CAP.** It can loosen the box nut and affect the response to gas. A loose cap can also cause the electrolyte to leak





Connect the particulate filter to the monitor's sample inlet fitting

**NOTE:** The inlet fitting contains an o-ring that forms the seal. Push the filter into the fitting until it moves past the o-ring and seats at the bottom of the fitting.



The monitor is now ready for power up. On power up, the monitor will immediately start a 4-minute countdown and the green and yellow LEDs will be illuminated next to the power connector. It will then display CH<sub>3</sub>Br on the top line and countdown from 244 to 0 and display WARM on the bottom line. Also the Yellow Fault LED will be illuminated on the front panel.

After the 4-minute countdown, the blue LED will illuminate and “Pyrolizer Heater Fault” will scroll on the top line, F02 00 will display on the bottom line and the Yellow Fault LED will still remain illuminated.

Approximately 30 seconds later, the “Pyrolizer Heater Fault” and F02 fault message will clear and CH<sub>3</sub>Br will display on the top line, a ppm gas concentration will display on the bottom line of the digital display and the Yellow Fault LED will turn off.

**NOTE:** Before any adjustments are made, please wait a minimum of 2 hours for pyrolizer to fully warm.

After the warm up period, visually inspect the flow meter.

**NOTE:** The flow is controlled by a built-in precision flow sensor and set at the factory.

*The flow meter is used as a visual indicator of flow only.*



**This monitor has a digitally controlled flow system and cell test function.** Once per hour the internal sample pump will power off and on in one second increments. This self-test lasts only 5 seconds without interfering with methyl bromide readings.

After 2 hour warm-up, enter the password and select the "Sensor Adjustment Mode". Select the sub menu "Set Module Zero" and set the monitor zero reading.

*Refer to Instruction manual section 5.4.3 on page 45*

- 1) Enter Password
- 2) Select Sensor Adjustment
- 3) Select Sensor Span
- 4) Select Set Module Zero
- 5) Set to zero by pushing the joystick "In"
- 6) Return to the normal Operating Mode





Install the cover by  
fastening the 4  
captive cover  
screws.

Please Do Not  
Over Tighten



For additional  
information please  
contact PureAir  
Monitoring  
Systems Inc at  
888-788-8050

***PureAir***  
*monitoring systems, inc.*