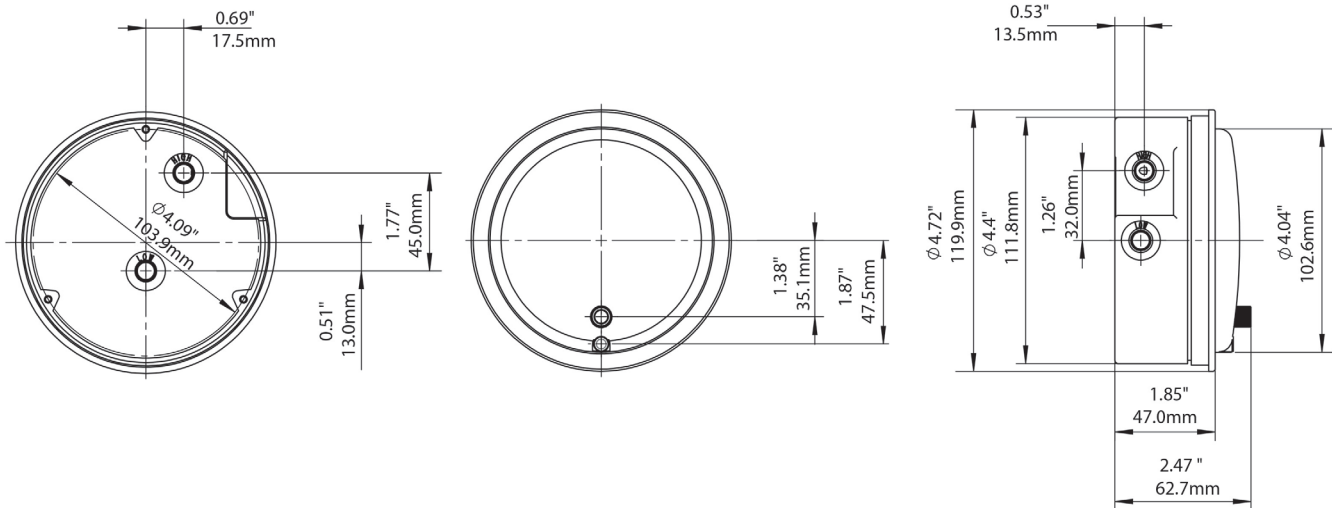


Specifications	
Dial	4" (100mm), white aluminum with black and red markings
Case	Die-cast black aluminum
Lens	Polycarbonate
Ring	Threaded die-cast black aluminum
Connection	1/8" NPTF high & low pressure taps, side & back
Movement	Resistance-free and magnetic
Pointer	Aluminum, anodized black
Over-pressure Limit	Maximum pressure of 14.5 psi / 100 kPa
Ambient/Process Temperature	-40°F to 140°F (-40°C to 60°C) 14°F to 140°F (-10°C to 60°C)
Accuracy	±2% of full scale value*
Enclosure Rating	IP54



Note: PFD to only be mounted in a vertical position.

### Transportation, packaging and storage

- Check the PFD Series gauge for any damage that may have resulted during transport. Any damage should immediately be reported.
- Maintain packaging until time of installation. Packaging will provide protection during transport and storage.
- Storage temperature is -40/140°F (-40/60°C).
- Protect the WinAIR product from moisture and dust.

### Installation

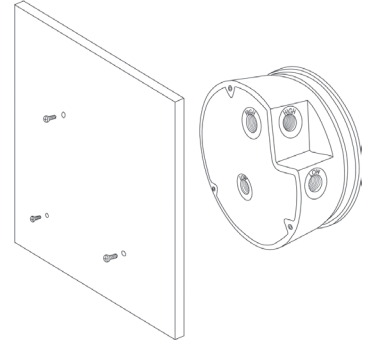
- **WARNING!**  
Before installation and operation, ensure that the correct pressure gauge has been selected, consider the pressure range, ambient and process conditions and that the product is in good working order.
- WinAIR is suitable for very low pressure installations and is compatible with dry and clean air or non-corrosive gases
- Install the instrument in a location suitable for the specification of the gauge and free of pulsation and vibration
- PFD Series gauges are calibrated in the vertical position so they should be installed in the same manner to ensure accuracy.

\* Unless otherwise noted.

**Mounting****Surface Mount**

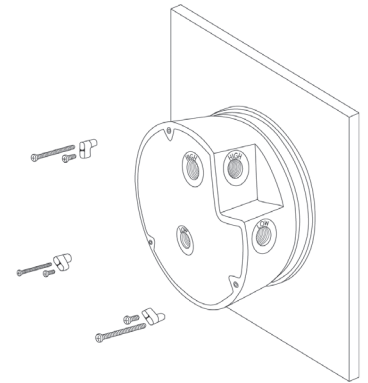
Drill 3 holes 120° apart on a diameter circle to match the holes on the back of WinAIR. Refer to drawing for dimensions.

Make the process connection(s) to the gauge with a wrench only when the gauge is securely fastened to the surface (panel).

**Panel Mount**

Cut an opening in the panel to allow close fit of 4.4" (112mm) gauge case diameter. Refer to drawing.

Make the process connection(s) to the gauge with a wrench only when the gauge is securely fastened to the surface (panel).

**Pressure Connections**

PFD Series has High and Low pressure connections on both the back and side of the gauge which are used to measure Positive, Negative or Differential pressures.

The pointer will move in the positive (clockwise) direction if the pressure of the High input is greater than the Low input or in the negative (counter clockwise) direction if the pressure of the Low input is greater than the High input.

If a pressure connection is being made to either the High or the Low pressure port, the unused port (on the side or back) for the same pressure input (High or Low) must be closed with a connector plug.

If a pressure input is being used to reference atmospheric pressure, it is not required to plug the corresponding unused process connection.

**Options and Accessories**

- Included in each package
  - 3 x angled mounting brackets with short and long screws
  - 2 x hose barb connectors with 1/8" NPT
  - 2 x 1/8" NPT input plugs
- Red Set Pointer – indicates the maximum allowable pressure on the dial. It can be adjusted manually (by hand) to the desired value
- For all other items, refer to the WinAIR datasheet at [www.winters.com/PFD.pdf](http://www.winters.com/PFD.pdf)

**Re-Zero Adjustment, General Maintenance and Calibration**

The re-zero adjustment feature should only be considered after installation. Access the re-zero adjustment screw at the bottom of the lens to re-zero the pointer while both the High and Low pressure ports are open to atmospheric pressure and without any pressure being applied to the unit.

For general maintenance, periodically disconnect all pressure inputs and vent all process connections to atmosphere.

Recalibration or repair by the user is not recommended. For best results, return WinAIR to Winters Instruments.