

# Installation and Operation Manual

## Series A2

## Specifications

**Pressure Limits:** -20" Hg to 15 PSI (-0.677 bar to 1.034 bar); MP

**option:** 35 PSI (2.41 bar); HP option: 80 PSI (5.52 bar)

**Media Compatibility:** Air and compatible non combustible gases

**Accuracy:**  $\pm 2\%$  full span ( $\pm 3\%$  on A2-100Pa and A2-125Pa;  $\pm 4\%$  on A2-60Pa ranges) at 21°C (70 °F)

**Temperature Range:** -6.7 to 60°C (20 to 140°F)

**Process Connections:** 1/8" female NPT duplicate high and low pressure taps – one pair side and one pair back.

**Housing:** Die cast aluminum case and bezel, with acrylic cover

**Weight:** 1 lb 2 oz (510 g), MP & HP 2 lb 2oz (963g)



## Installation

- Upon receipt please inspect the instrument for the intended application range.
- The instrument should be installed in a place where excessive pressure is not present and the ambient temperature is less than 140°F (60°C).
- All standard A2 gauges are calibrated in the vertical position. To maintain the specified accuracy, the gauge must be mounted in the vertical position.

## Mounting

## Surface Mounting

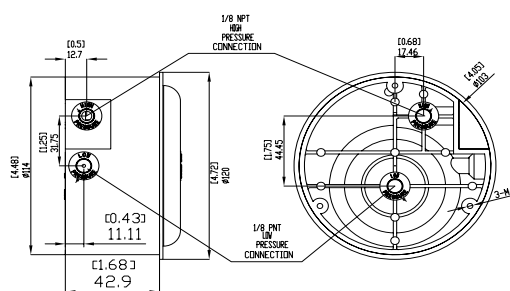
Drill 3 holes spaced equally apart on a 4 1/16" diameter circle to match the holes on the back of the gauge. Secure the gauge with 3 mounting screws of suitable length provided.

### Flush or Panel Mounting

Cut an opening in the panel 4 9/16" in diameter. Put the gauge in the panel cutout, attach adapters, and use the 6 mounting screws provided to fasten the gauge in place.



### Dimensional Drawing (inch/mm)



## Pressure Connections

### Positive Pressure Measurement:

Connect the pressure tubing to either of the two ports marked “high pressure” on the gage and plug the other one. Vent the ports marked “low pressure” to atmosphere.

### Negative Pressure Measurement:

Connect the pressure tubing to either of the two ports marked “low pressure” on the gage and plug the other one. Vent the ports marked “high pressure” to atmosphere.

### Differential Pressure Measurement:

Connect the higher pressure tubing to either of the two ports marked “high pressure” on the gage and plug the other one. Connect the lower pressure tubing to either of the two ports marked “low pressure” on the gage and plugging the other one.

## Zero Adjustment

Zero adjustment can be made after the installation. Use the zero adjusting screw at the bottom of the cover to zero the pointer while both the high and low pressure ports are open to atmospheric pressure.