MODEL DVG-XXM DIGITAL VACUUM GAUGE
MODEL DPG-XXM DIGITAL PRESSURE GAUGE
INTERFACE INSTRUCTIONS

All mounting dimensions are in inches with a tolerance of +.015
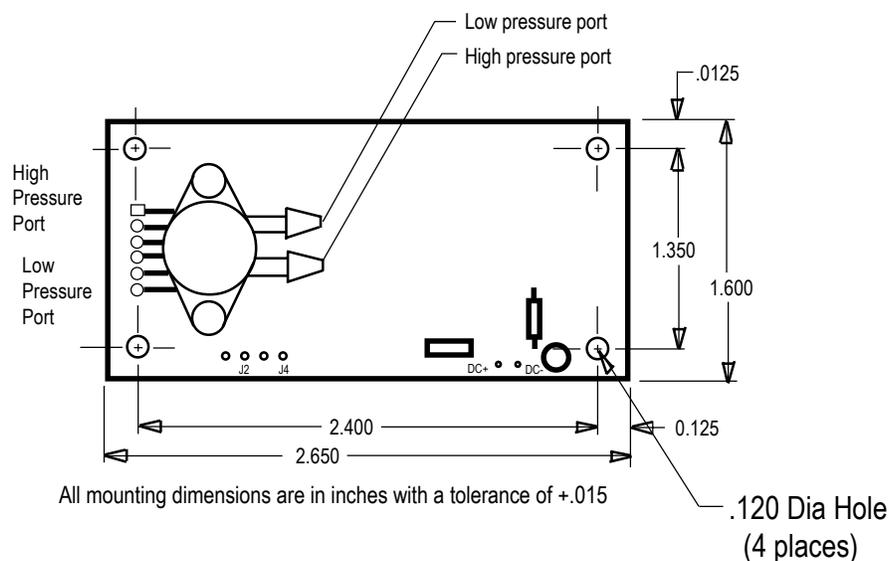
Power Connections:

DC- Hole in board is DC Ground

DC+ Hole in board is for +8 to 15 Volt DC Supply (200 ma)

J2 Hole in board is for Analog Output "+" scaled to display

J4 Hole in board is for Analog Output ground "-"

Note:

1. The Board Assembly must be mounted on stand-off supports to provide a minimum of 1/4 inch clearance between board surface and mounting surface. Conductive materials must not touch the bottom of the board since it could short out components and damage the electronics on the board.

2. A hose connection from the vacuum source to be measured must be connected to the "Low pressure port" as marked on the board diagram above.   If a positive pressure is to be measured, connect the air pressure supply to the "High pressure port". In either case the unused port is left open to atmosphere. If differential pressure is to be measured then the hose connections must also be connected to the corresponding "High" and "Low" pressure ports. Application of pressure in excess of the rated pressure or improper connection can damage gauge and readings will be inaccurate .

3.   If the Digital Vacuum Gauge is used to measure vacuum in a system that contains liquid the meter installation and system must prevent the liquid from entering either of the pressure sensor ports. An air permeable water impermeable filter could be installed between the liquid and sensor ports to prevent this from occurring. Alternatively the meter could be mounted above the liquid level under all operating vacuum level conditions.

4. An analog output of the pressure signal is available if desired for data acquisition or for other signal sensing applications. The minimum input impedance of the load to be connected must not be less than 10k ohms. Additionally, the analog output ground should "float" and must not be tied to the DC- ground of the board to prevent a ground loop condition. The analog output is scaled to the display (except the decimal point of the display is fixed for the required units/range being displayed).