

# Digital Pirani Gauge



Change of pressure in vacuum systems brings about a rise or fall in number of gas molecules present and hence a rise (or) fall in the thermal conductivity of the gas. Thus the heat loss of constant voltage electrically heated filament in the system varies with the pressure.

The pirani gauge head filament has high temperature co-efficient of resistance. So a slight change in system pressure brings about useful change in filament resistance resulting in an out of balance voltage which can be read as a pressure on meter. The pirani gauge head indicates the total pressure of combined gases and undesirable vapours in the system on the thread wire can loss heat to both gas and vapour molecules. This instrument with two sensors having wide range of applications, in high vacuum systems where one sensor is used to measure backing vacuum and the other sensor can be used for measuring high vacuum. These instruments can be used in high vacuum systems, coating units, sputtering units, and many other applications where vacuum to be measured in the range of 0.9 to 0.001 m.bar.

## TECHNICAL SPECIFICATIONS

<b>Model No.</b>	DPG - 001
<b>Pressure Range</b>	0.999 to 0.001 m. bar
<b>Display</b>	Three digit LED numeric display with (UR) under range (At) and (OR) over range (F.S) Led Indication
<b>Gauge Head (sensor)</b>	Pirani model PR-3
<b>Number of sensor</b>	2
<b>Analog output</b>	GH1-com-GH2. 0-200 m.v can be connected to Pirani set point controller model PRGC-1
<b>Operating Temp.</b>	0 to 45°C
<b>Power input</b>	230V AC $\pm 10\%$ , 50 Hz 15 Watts approx
<b>Physical size</b>	Front Bezel - 98 x98 mm, depth 236 mm
<b>Cut out size</b>	92 mm x 92 mm

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