

# DIGITAL PIRANI GAUGE

## **MODEL DHPG-210**

The Digital Pirani Gauges are specialized monitoring instruments designed for the accurate measurement of high vacuum in the Pirani Range upto 0.001 mBar.

The indicator is panel mounting type with a Pirani Gauge Head ( Sensor ) which can be clamped onto the point of measurement using a KF Clamp fitting . The instrument measures accurately in the Pirani vacuum range from 760 mBar ( Atmospheric ) to 0.001 mBar ( 1 micron )

The Digital Pirani Gauge has an intelligent microcontroller design & the display is a 4 Digit 7 segment LED display with auto decimal resolution setting.

All Pirani Gauges are based on the principle of measurement of thermal conductivity of gases. The Digital Pirani Gauges come with a single gauge head or an optional dual gauge head enabling the use of one instrument to measure the vacuum of 2 points. The Digital Pirani Gauge is a direct replacement for the conventional Analog Pirani Gauges & is mains operated on Single Phase , 230 V.A.C. supply.

Also available is the Digital Pirani Gauge with Set Point Controller ( Model AI-DHPC-011S) with a relay output, adjustable from front potentiometer.

The Digital Pirani Gauges find extensive use in Sputtering Units, Coating Units, Ejector Systems, diffusion pumps & similar high vacuum applications requiring measurement upto 0.001mbar.



## Technical Specifications :

**Vacuum Measuring Range**

: 999 mBar to 0.001 mBar ( 1 Micron )

**Principle**

: Pirani Principle based on thermal conductivity of Gases to measure negative pressure (Vacuum)

**Gauge Heads**

**Model DHPG-210**

**Model DPRG-015**

: Single Pirani Gauge Head with KF Clamp  
2 Nos.Gauge Heads with 2 Nos. KF Clamps, selected by front push button  
Single Pirani Gauge with KF Clamp

**Model DHPC-011S**

**Analog Output (Algorithmic)**

**(Only Models DHPG-201)**

: 0 to 10 V.D.C. corresponding to 999 to 0.001 mBar for connecting recorders/PLC/Communication (Algorithmic)

**Relay Output**

: Relay Set Point available only on Model DHPC-011S ( 1 Set of NO/CO/NC)

**Accuracy**

: +/- 10 %

**Display**

: 4 Digit 0.5" High Red LED Intelligent Display with Auto Decimal Resolution

**Power**

: 230 V.A.C. , 50 Hz

**Size**

: 96 x 96 x220 mm. ( LxBxD)

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