

# Microprocessor Based Vacuum Gauge



Microprocessor based Pirani and Penning Digital Gauge has flexibility with inter changeable modules to have the different combinations of Pirani Gauge Head, Controller, Penning gauge head, and power supply. The digital display has been weighed most important features of this instrument as user friendliness depends on interrogating the key switches with display parameter. The instrument will have facility to connect with other equipment or with computer having serial communications port with RS-232C signal levels with programmable baud rate. The microprocessor gauge is provided with main digital display with exponent reading and bar graph. The penning reading can be assigned to main digital display. The pirani can be assigned to bar graph or vice versa. The front panel LED's indicate the sensor No. for which the vacuum reading is displayed. The microprocessor gauge is provided with a facility of serial communication port RS-232C with signal levels and programmable baud rate. Which can be linked to computer or any system process integration. The microprocessor gauge finds use with vacuum system with complete Automatic operation, Total system Automation with programmable process parameter, also can be hooked to computer.

## TECHNICAL SPECIFICATIONS

### Pirani Gauge: Model No. PPC-9301

<b>Measuring Range</b>	1000 to $1 \times 10^{-4}$ mbar (Nitrogen Equivalent)
<b>No. of sensors</b>	2 to 6 nos. maximum (optional)
<b>Temperature</b>	Range + $10^0$ to $45^{\circ}\text{C}$
<b>Recorded output voltage</b>	0 to 10 volts (non-linear)
<b>Recorded input Impedance</b>	Higher than 5 Kilo-Ohms
<b>Press control relay contacts</b>	NO-NC 3 Amps at 230 V AC resistive load, 3A at 230V (4 sets are available for pirani and penning NO or NC assignable to any sensor through software)
<b>Vacuum connection</b>	KF-10 Quick seal couplings

### Penning Gauge

<b>Measuring Range</b>	$10^{-3}$ to $10^{-7}$ mbar
<b>Sensor construction</b>	Metal using SS/Molybdenum, G.M seals and aluminium
<b>No. of sensors</b>	1 to 2 nos. (optional)
<b>Magnets</b>	Hard ferrite ring magnet
<b>Output voltage</b>	3.3KV DC (APPROX)
<b>Vacuum connection</b>	KF-40 =Quick seal couplings
<b>Recorded output voltage</b>	0 to 10 volts (non linear)

HIND HIGH VACUUM CO. PVT. LTD.

Site No.17, Phase 1, Peenya Industrial Area, Bangalore - 560 058, India. Ph: 080-8394518, 8394615, 8394617, 8394640. Fax: 080-8394874. E.Mail : info@hindhivac.com

SALES OFFICE

Baroda: Ph: 33178, 359039. Fax: 0265-331505. Calcutta: Ph: 4661462, 4649182. Fax: 033-4662830. Chennai: Ph: 4891061. Fax: 044-4891061. Hyderabad: Ph: 3235504, 3234609. Fax: 040-3235504. Mumbai: Ph: 5550003, 5587219. Fax: 022-5563724. New Delhi: Ph: 6282410, 6282411. Fax: 011-6282412. Pune: Ph: 5466095, 5442426. Fax: 020-5466095.