

Bayard Alpert Gauge



Bayard Alpert gauge (BA Gauge) has been developed by **HINDHIVAC** to meet the needs of the high vacuum and ultra high vacuum measurements.

HINDHIVAC hot cathode ionisation gauge based on BA gauge principle. The cathode is directly surrounded by the ion collector in the form of helix. The anode is used as the outer electrode and shaped like a conventional grid. The gauge function as a normal amplifier where the grid current is a measure of the pressure. The BA gauge is used to measure vacuum in ultra high vacuum ranges between 10^{-4} to 2×10^{-10} m.bar. The gauge is provided with display of pressure with autoranging facility. The gauge also comes with setpoint controller as a option.

Salient features:

- Range from 10^{-4} m.bar to 2×10^{-10} m.bar
- Digital Display
- Degassing facility
- Auto Ranging
- Filament protection.

TECHNICAL SPECIFICATIONS

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|---|--|
| Model No. Vacuum range to measure Filament power Grid voltage Grid power | IG-001 / IG-002 10^{-4} mbar to 2×10^{-10} mbar 7.2 at 7.5A (RMS) + 180V with respect to the ground 8.5 watts for outgas with respective heating grid |
| Amplifier sensitivity Emission current | 10^{-11} amps Normally 1mA & adjustable from 0.05 mA to 1.2mA |
| Mounting details Pressure range selection Input power | 3/4" Kovar tube Auto ranging 230V AC 50Hz |
| Gauge Heads | |
| Materials | Filament: Thoria coated Iridium ribbon Grid: Molybdenum Collector: Tungsten |
| Sensitivity Mounting | 10 per mbar 3/4" Kovar tube with locknut |

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