

Visionary Sensor Technology



Hot Ion Vacuum Gauges

From atmosphere to ultrahigh vacuum with one gauge

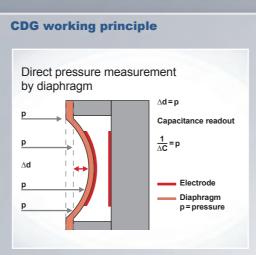
The Hot Ion Family Wide Range Vacuum Gauge

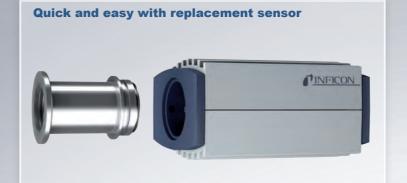


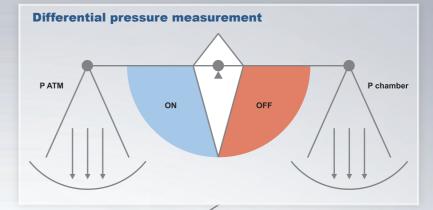
The INFICON Hot Ion Family of vacuum gauges combines the advantages of up to three different technologies in a single compact economic package to measure process and base pressure from 5 x 10⁻¹⁰ to 1500 mbar (3.75 x 10⁻¹⁰ to 1125 Torr). Combining technologies reduces the complexity of installation, setup, and integration, thus reducing cost and valuable tool space. For applications that require stand alone hot ion gauge technology, INFICON offers the single technology Bayard Alpert Hot Ion Gauge BAG402-S. The supported single or dual filament options offer superior accuracy and longevity. A broad range of interface options enable simple system integration.

Typical applications

- Pressure measurement for semiconductor process, transfer, and load lock chambers
- General vacuum measurement and control in the low to ultrahigh vacuum range
- Physical vapor deposition (PVD) in industrial coating
- Sputter application in semiconductor manufacturing, electronic and media industry (HPG400)







Interface I/O

- Classic analog signal
- Wide range power supply
- Setpoints
- Status LED
- RS-232 Display
- ATM SWITCH function
- Fieldbus: EtherCAT®, Profibus®, DeviceNet®









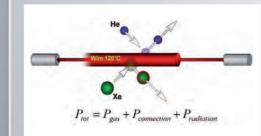


Hot Ion principle



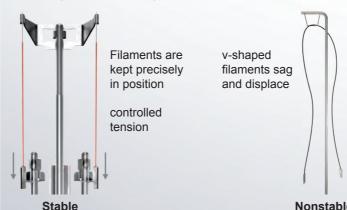
Long lifetime yttrium oxide coated iridium filaments

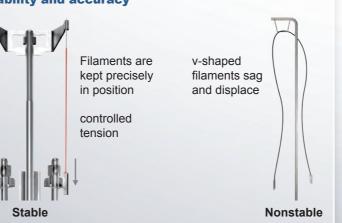
Pirani principle



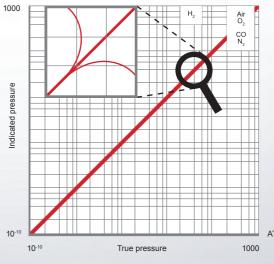
The temperature will be conducted through the gas molecules. The temperature loss of the hot filament is a function of the

Stability and accuracy





Gas type independence



CDG sensor technology

Enhanced lifetime through intelligent filament on/off control



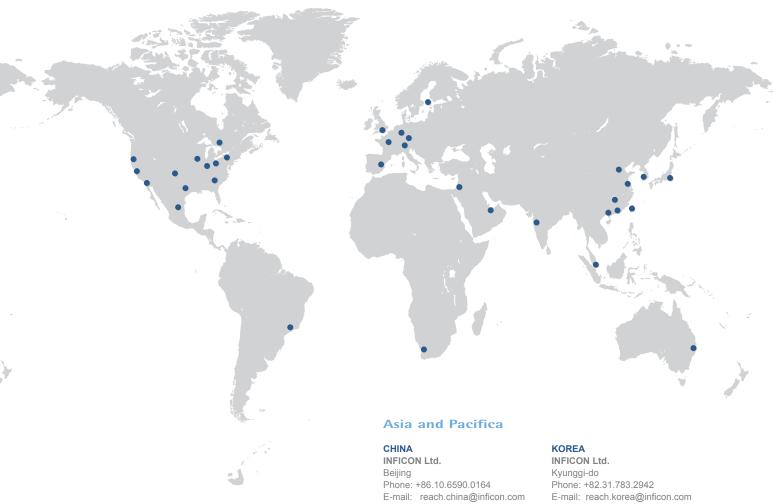
CDG Hot Ion Pirani 10E -10 mbar 5E -3 mbar





EXCELLENT CUSTOMER SUPPORT IS A COMMITMENT

INFICON provides a global network of sales and service centers. These centers are staffed with local service and application experts who can assist you in choosing the best solution for your individual product application and provide fast support if service is needed.



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