

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
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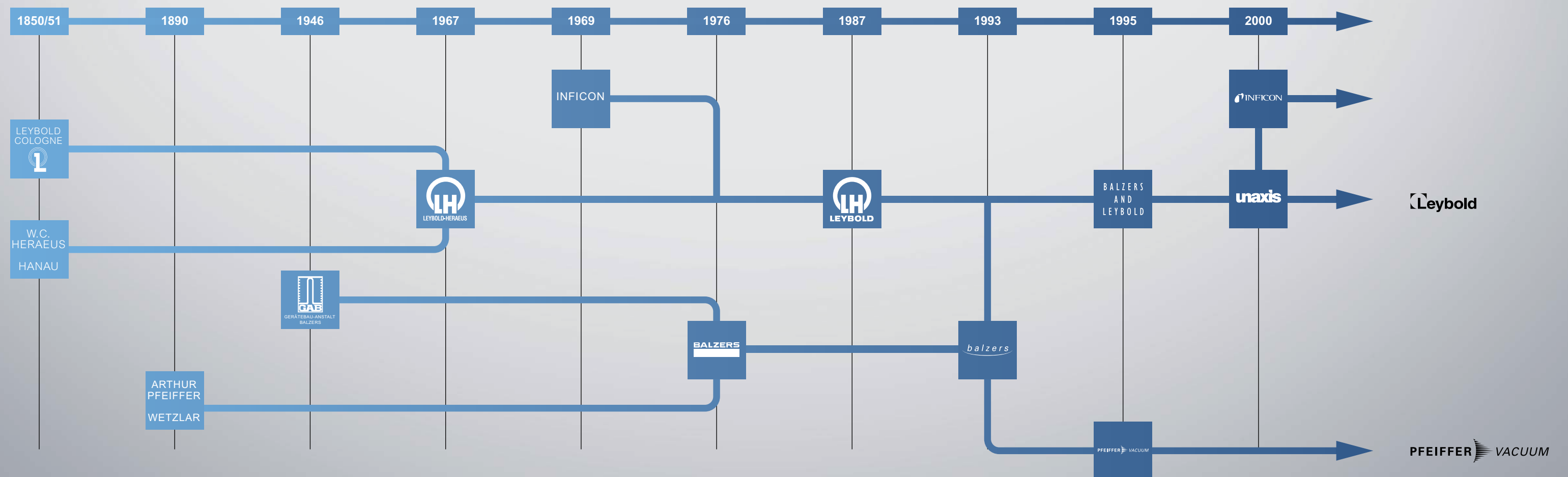
Высокоточные мембранно
емкостные датчики Vacuum Measurement

Experience and Passion

INFICON provides you with precise pressure measurement instrumentation and quality fittings for any vacuum system. Our ceramic capacitance diaphragm gauges deliver higher accuracy, stability and longer lifetime than conventional metal diaphragm products.

INFICON invented vacuum combination gauge sensors and combine multiple technologies in a single unit to accurately measure a wide range of pressures with reduced complexity and cost.

With over 150 years of vacuum experience, INFICON is the worldwide leader in vacuum gauges. INFICON was formed as an independent company with a new market presence and has world-class manufacturing, sales and service facilities worldwide. The service spectrum includes development, production and sales of innovative products in the vacuum industry.



Experts in Precise Vacuum Measurement

Capacitive Diaphragm Gauges (CDG) measure vacuum pressures gas type independent with the INFICON unique ceramic cell. CDGs offer the best corrosion resistance with unmatched scale stability over many years. To cover the individual application needs, INFICON CDGs range from the cost effective, small sized

Porter™ via the temperature compensated SKY CDG025D, to the process gauges SKY®, Edge™ and Stripe™. For calibration purposes, the Cube CDGSci is the best choice. INFICON CDGs are available with all common vacuum flange connections used in the industry and can be customized to others. A variety of different electrical

interface options, including the EtherCAT fieldbus interface make the integration easy. INFICON also offers pressure switches for process control and interlock functions. Nevertheless, INFICON also supports innovation by developing customized sensor solutions such as the Spot series and custom engineered solutions.

Capacitance Diaphragm Gauges

Capacitance Diaphragm

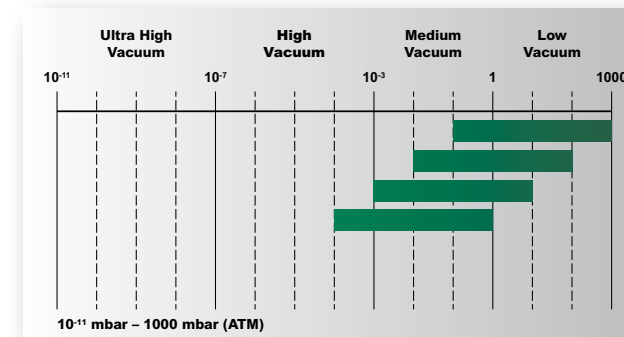
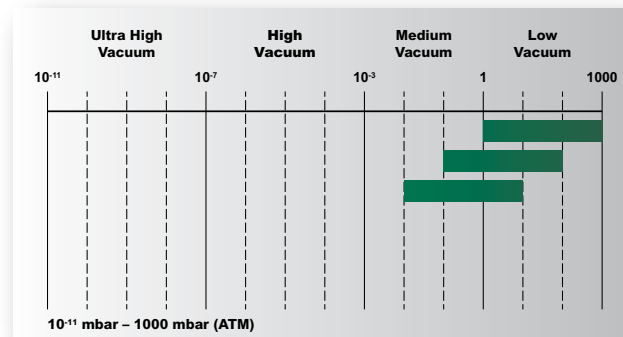


Porter™ CDG020D

Temperature Compensated Capacitance Diaphragm Gauge

Accurate and gas type independent
Compact, smallest size in its class

- Sterilization
- Vacuum coating
- Vacuum monitoring



Edge® CDG045D2 CDG100D2

Temperature Controlled Compact Capacitance Diaphragm Gauge

Compact, saves valuable tool space
Long lifetime due to double sensor protection
Corrosion resistant pure ceramic sensor

- Semiconductor and other harsh processes
- Chemical and corrosive applications
- Sterilization



EtherCAT

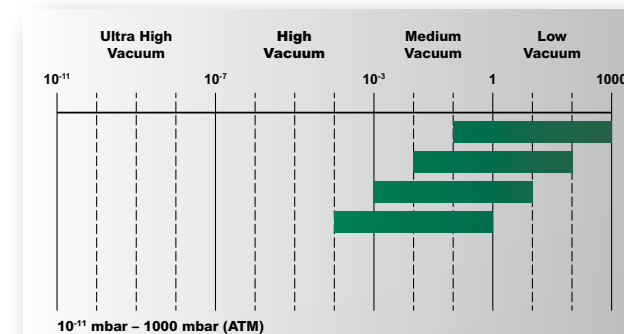
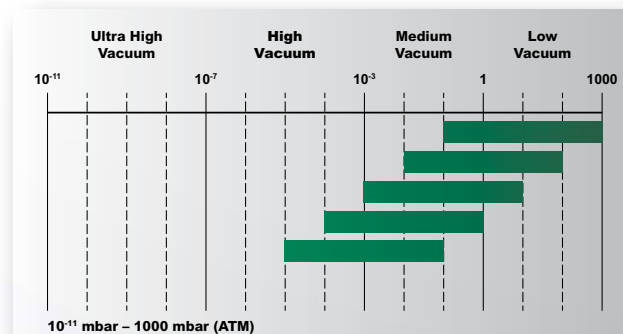


SKY® CDG025D CDG025D-X3

Temperature Compensated Capacitance Diaphragm Gauge

Very accurate and gas type independent
Excellent long-term and temperature stability
Corrosion resistant pure ceramic sensor

- Semiconductor and other plasma processes
- Industrial vacuum applications
- Accurate pressure measurement



Stripe® CDG100Dhs

Temperature Controlled High Speed Capacitance Diaphragm Gauge

Faster than 1 ms response time
Flexible integration with EtherCAT with fieldbus
Corrosion resistant pure ceramic sensor

- Atomic layer deposition
- High speed process control
- PVD, CVD, Etch



EtherCAT

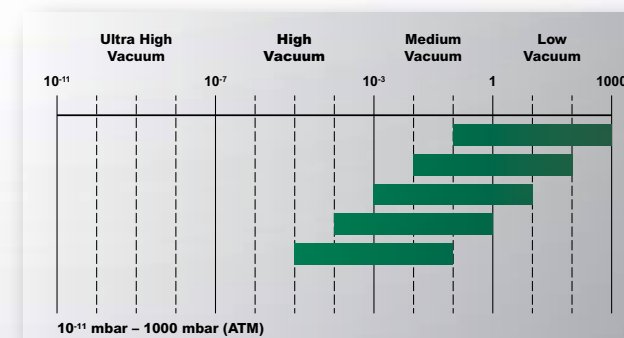
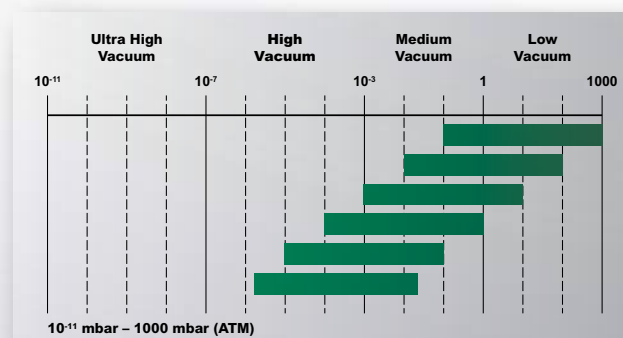


SKY® CDG045D CDG200D

Temperature Controlled Capacitance Diaphragm Gauge

Very accurate and gas type independent
Long lifetime due to double sensor protection
Corrosion resistant pure ceramic sensor

- Semiconductor and other harsh processes
- Chemical and corrosive vacuum applications
- Quality and reference pressure monitoring

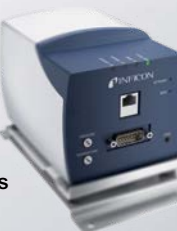


Cube® CDGSci

Temperature Controlled Reference Capacitance Diaphragm Gauge

True high precision vacuum measurement
Full stable output – Proven by PTB
Flexible communication – Various modern interfaces

- Transfer standard
- Main reference gauge
- Research



EtherCAT

Experts in Precise Vacuum Measurement

Application Specific CDG Solutions

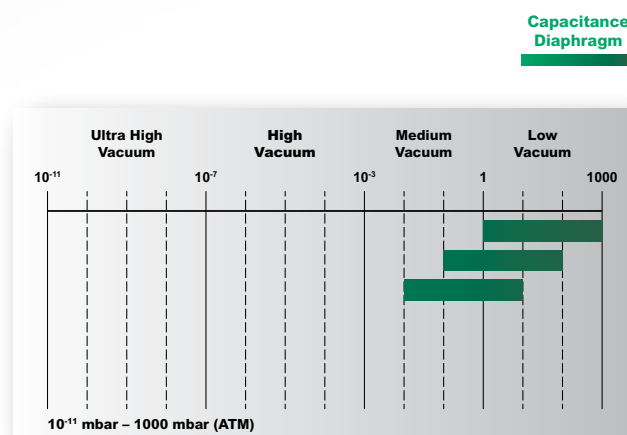


Spot® CDS500D

Temperature Compensated OEM
Capacitance Diaphragm Sensor

Excellent repeatability and long-term stability
Fast response time
Corrosion resistant pure ceramic sensor

- For integration into vacuum instrumentation and systems

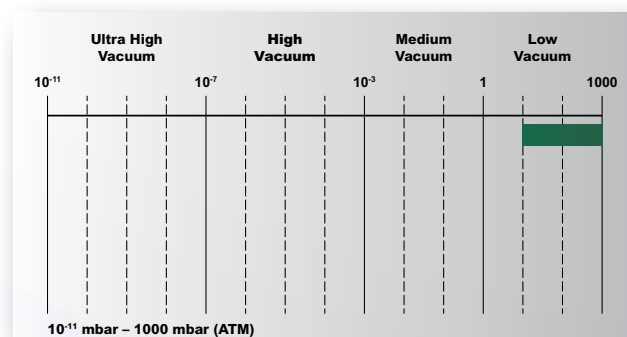


VSA / VSD200

Absolute / Differential
Vacuum Switch

Corrosion resistant fully stainless steel sensor
High accuracy
Excellent long-term stability

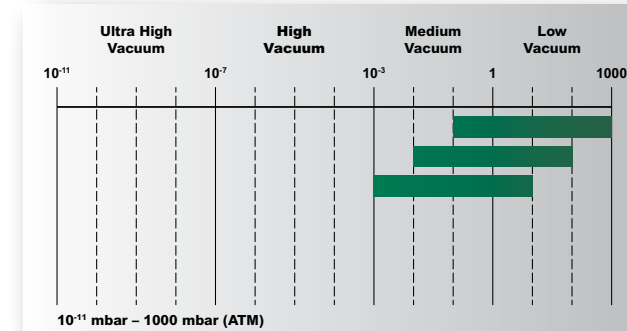
- Atmospheric pressure detection
- Pressure interlocks
- Industrial vacuum applications



VGD500

Vacuum Gauge Display

Compact small size
Four digit display for easy read out

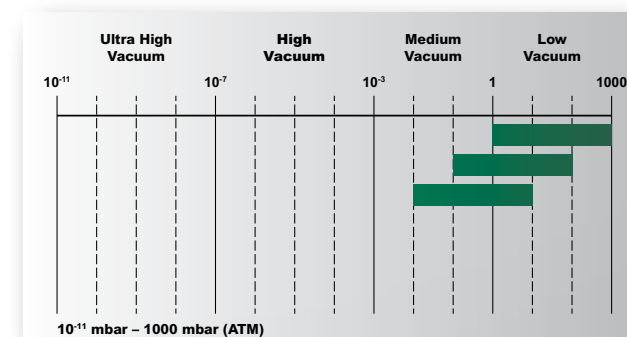


Remote CDG

Custom Engineered

Standard heated CDG products are not matching your design requirements?
Remote heated CDG could be the perfect solution.

- Smaller footprint
- Applicable in hot environments
- Field proven repeatability and accuracy



UHP Porter

You need a Ultra High Purity compatible CDG?
INFICON's xParts coating lifts the product performance to UHP level matched with clean room double packaging.

- Lower particle contamination
- Chemical resistant
- Lower metal contamination



AllCeramic Option

The metal free process CDG

Only ceramic surfaces (aluminum oxide) are wetted to process media. This option is available for all CDG products (SKY, Edge, Stripe)

- Higher corrosion resistance
- Lower metal contamination
- Lower particle contamination
- Longer lifetime, less maintenance



Experts in Wide Range Vacuum Measurement


INFICON wide range vacuum gauges offer superior accuracy and reliability in compact designs. Four physical measurement technologies cover the whole range of vacuum from ultra-high vacuum up to atmosphere.

The INFICON Pirani technology enables cost effective measurement in the low vacuum range and up to atmospheric pressure. The INFICON miniature capacitance diaphragm technology enables precise and

gas type independent measurement in the low vacuum range, whereas the ultra and high vacuum ranges are covered by the hot or cold ionization technologies.

Each measurement technology is available as a stand-alone sensor or combined with complementary measurement technologies to enable optimum price to performance ratio over the complete vacuum range.


Thermal Conductivity Gauges



PSG500
Pirani Standard Gauge

Single sensor technology
Stainless steel measurement cell
Space saving rugged design
Corrosion resistant version


- Fore vacuum pressure measurement
- Interlocks in vacuum systems
- General vacuum measurement and control from low to high vacuum



PSG55x
Pirani Standard Gauge

Single sensor technology
Tungsten, nickel or fully ceramic coated sensor

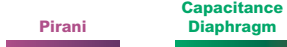
- Fore vacuum pressure measurement
- Interlocks in vacuum systems
- General vacuum measurement and control from low to high vacuum



PCG55x
Pirani Capacitance Diaphragm Gauge

Dual sensor technology
Tungsten, nickel or fully ceramic coated sensor
High accuracy and gas type independence above 10mbar

- Load lock control
- Fore vacuum pressure measurement
- Interlocks in vacuum systems

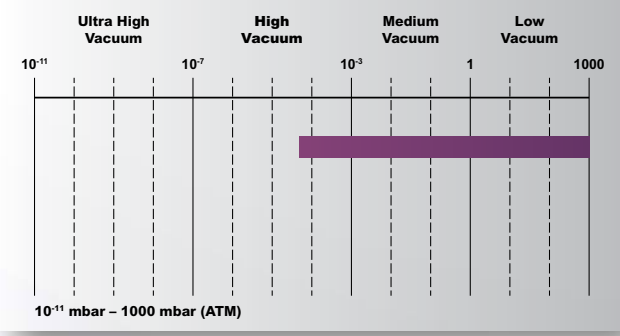




Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000

10⁻¹¹ mbar – 1000 mbar (ATM)



Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000


10⁻¹¹ mbar – 1000 mbar (ATM)



Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000


10⁻¹¹ mbar – 1000 mbar (ATM)



PGE500
Pirani Gauge Enhanced

Gold plated tungsten filament
All-in-one active gauge with analog output and integrated RS485 and OLED display


- Fore vacuum pressure measurement
- General vacuum measurement and control from low to high vacuum range



PGE300
Pirani Gauge Enhanced

Gold plated tungsten filament
All-in-one active gauge with integrated LED display
Factory pre-set possibility

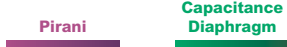
- Fore vacuum pressure measurement
- General vacuum measurement and control from low to high vacuum range

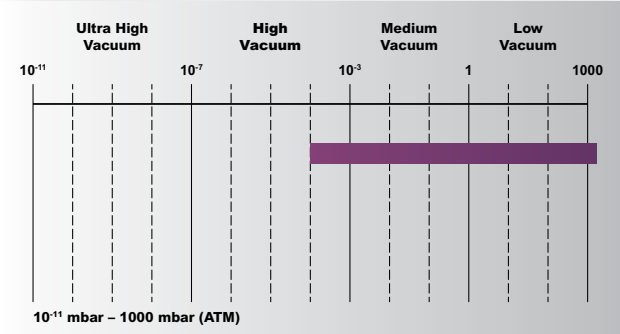


PGE050
Pirani Gauge Enhanced – PASSIVE

Gold plated tungsten filament
Ideal gauge sensor for upgrading your installed thermocouple gauges

- Fore vacuum pressure measurement
- General vacuum measurement and control from low to high vacuum range

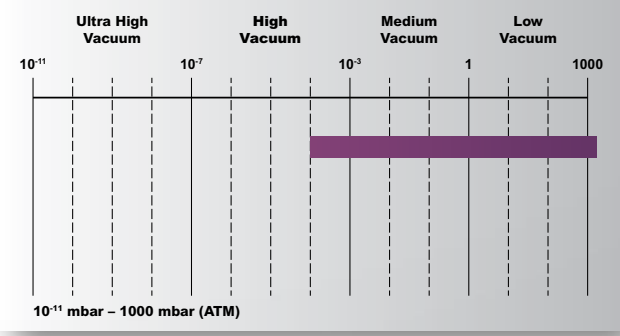




Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000

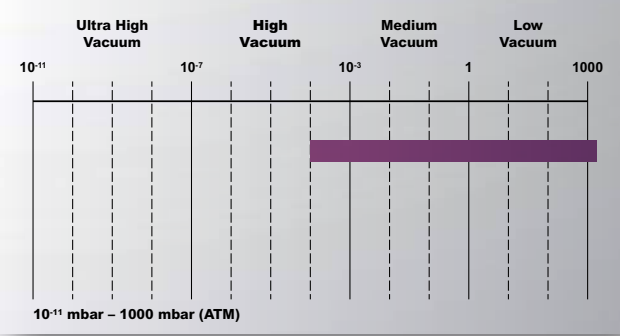
10⁻¹¹ mbar – 1000 mbar (ATM)



Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000

10⁻¹¹ mbar – 1000 mbar (ATM)



Ultra High Vacuum High Vacuum Medium Vacuum Low Vacuum

10⁻¹¹ 10⁻⁷ 10⁻³ 1 1000

10⁻¹¹ mbar – 1000 mbar (ATM)

Experts in Wide Range Vacuum Measurement

Ionization Gauges (Hot and Cold)



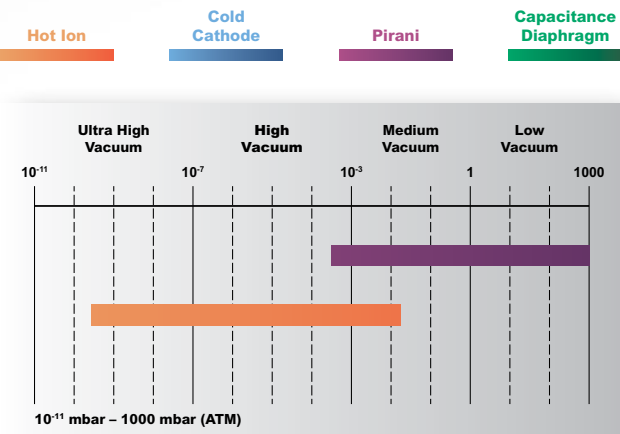
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BPG400 / BPG402 / BAG402

Bayard Alpert Gauge
Bayard Alpert and Pirani Gauge

Single sensor technology (BAG402)
Dual sensor technology (BPG400/BPG402)
Long lifetime
Automatic emission control

- Semiconductor process and transfer chambers
- Industrial coating
- Measurement and control from atmosphere to ultra-high vacuum (BPG400 / BPG402)



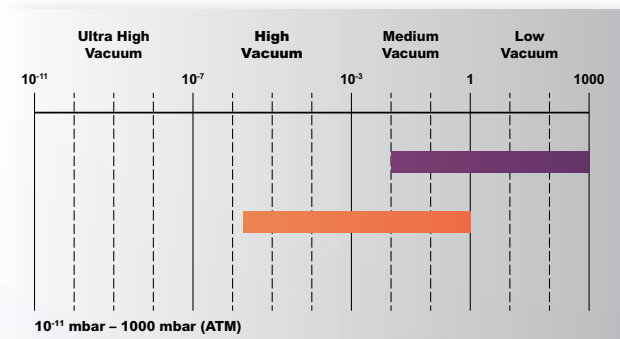
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HPG400

High Pressure Ionization Pirani Gauge

Dual sensor technology
Long lifetime
Automatic emission control

- Sputter applications
- Semiconductor process and transfer chambers
- Industrial coating



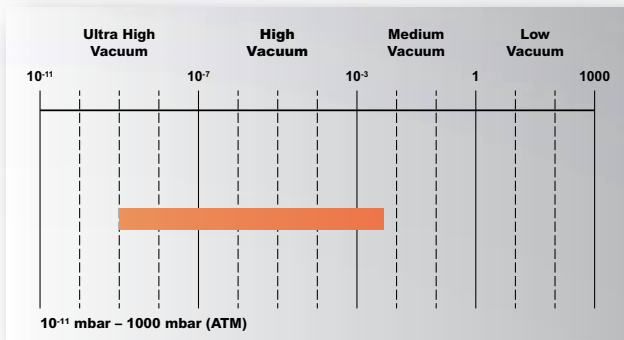
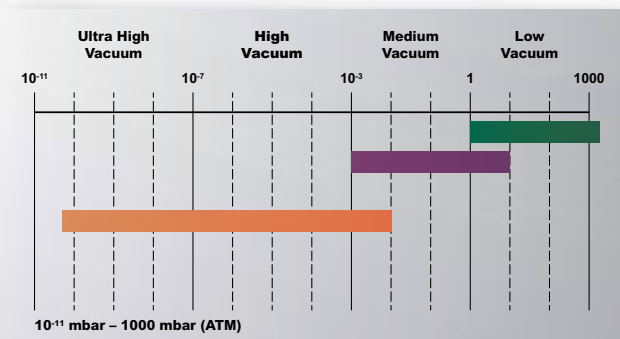
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TripleGauge® BCG450

Bayard-Alpert Pirani Capacitance
Diaphragm Gauge

Triple sensor technology
Gas type independence above 10mbar
Long lifetime

- Semiconductor process and transfer chambers
- Industrial coating
- Measurement and control from atmosphere to ultra high vacuum

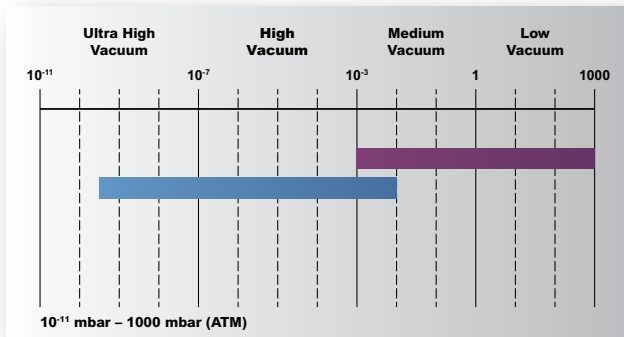


BAG302

Bayard-Alpert Hot Ion Gauge

Two standard long-life yttrium oxide coated iridium filaments
Bright digital OLED display with keypad
Easy to exchange sensing element

- Semiconductor process and transfer chambers
- Industrial coating
- General vacuum measurement and control in low to ultra high vacuum range



Gemini MAG500 / MPG500

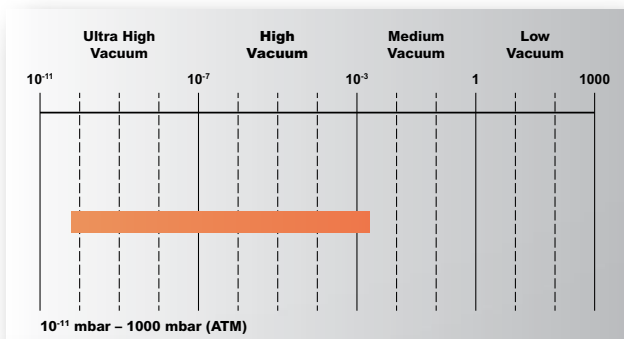
Cold Cathode Gauge
Cold Cathode and Pirani Gauge

Long lifetime in harsh environments
Excellent ignition properties
No stray magnetic field
Exchangeable ionization chambers

- Analytical and R&D applications
- General vacuum measurement
- Base pressure monitoring and control, from atmosphere to ultra-high vacuum



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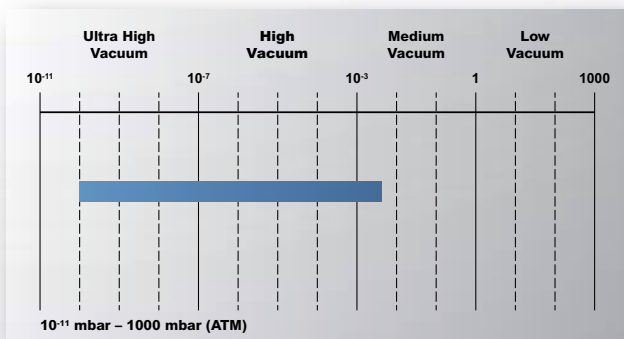


BAG05x

Bayard-Alpert Hot Ion Gauge – PASSIVE

Drop in for most nude hot ion gauge heads
Can be degassed using electron bombardment
Wide range of emission currents

- Analytical and R&D applications
- General vacuum measurement



MAG050 / MAG060

Cold Cathode Gauge – PASSIVE

Bakeable up to 250°C
Corrosion resistant with ceramic feedthrough
Good ignition properties

- Analytical and R&D applications
- General vacuum measurement
- Base pressure monitoring and control, from atmosphere to high vacuum



Experts in Vacuum Control and Components

Gauge Controller



VGC501 / 502 / 503

Active Gauge Controller for all Active Sensors including CDG

Automatic gauge identification
High signal resolution
Up to six free adjustable setpoints

- Remote gauge control applications
- Process pressure control
- Production site and test lab monitoring



PGD500

Active Pirani Gauge Display for PSG, PCG, MPG

Large display
Compact design for use on benchtop or rack mount
Low cost of ownership pressure visualization device

- Filling stations in the automotive and RAC industry
- Pressure control in light bulb production lines
- General vacuum process and test lab monitoring



VGC031

Passive Gauge Controller for PGE050

Four user selectable analog output signals
Displays and controls wide measurement range from 1.3×10^{-4} to 1333 mbar
Bright digital OLED display

- Fore vacuum pressure measurement
- General vacuum measurement and control from low to high vacuum range
- Filling stations in the automotive and RAC industry



VGC083

Passive Gauge Controller for BAG05x, MAG05x and PGE050

Simple operation with special OLED display
Remote digital I/O sensor and emission on/off
Three definable setpoints per channel with adjustable hysteresis

Components



Fittings

High- and Ultra-High Vacuum
Components, Feedthroughs and Viewports

High quality fittings according to international standards,
Stocked worldwide for immediate delivery
Wide variety of mechanical and electrical feedthroughs

- All vacuum processes from low to ultra high vacuum
- High current feedthrough applications
- Visual inspection of vacuum systems through viewports



Heated Components

Heated Exhaust Lines and Assemblies

Fully vulcanized surface heater for low power consumption
Customized design with molded hard shell covers
Cool to the touch on the outside

- Exhaust line applications
- Condensation exposed vacuum processes
- All vacuum systems



xParts

ALD Coating Service

Highly uniform, out of line of sight, thin film ALD coatings for complex 3D structures

- Longer lifetime - less corrosion with dense, pin hole free layer
- Higher process yield - less particles, metal-free surface
- Faster pump down without out-baking

Maximizing Productivity and Yield

Leak Detectors

INFICON refrigerant, hydrogen and helium leak detectors are the worldwide leading brand for quality control at refrigeration, air conditioner, food packaging, appliance and automotive manufacturing facilities and their supply chains, as well as in the semiconductor/coating markets. As product quality, safety and environmental concerns lead to more stringent leak testing requirements, INFICON helps you respond by providing a complete line of highly sensitive leak detectors in a variety of configurations for sub-assembly and mid-production quality testing, as well as final testing to ensure system integrity. Field service professionals in air conditioning/refrigeration and automotive rely on the superior performance of our reliable, convenient and affordable service tools.

The INFICON toolbox of market-leading products for service technicians includes innovative refrigerant leak detectors, combustible gas leak detectors, ultrasonic leak detectors, refrigerant recovery systems, refrigerant charging scales and vacuum pressure gauges. With INFICON service tools, you are assured of having the right tool to get the job done quickly and accurately, saving you time and money.



UL3000 Fab Helium Leak Detector



Sensistor Sentrac® Hydrogen Leak Detector

Gas Analysis Systems

INFICON instruments are used in renewable energy research and production, hydrocarbon processing, refining and chemical productions. From research and development to production, we are investing in gas analysis technologies to help enable you to operate more efficiently. INFICON offers compact, transportable, easy-to-use instruments, like our Micro GC Fusion Gas Analyzer to make measurements in the lab, at the pilot plant or in the field close to the sample point. The accurate analysis provides better understanding of raw materials, process control of intermediates or the quality of final products.



Micro GC Fusion® Gas Analyzer



Transpector® MPH

Chemical identification and Monitoring Systems

Gas chromatography / mass spectrometry (GC / MS) sets the benchmark for the most accurate identification of organic chemicals of any analytical technique. INFICON technology is being used throughout the world for emergency response, chemical warfare agent detection, early detection of chemical contamination in water source and distribution systems, hazardous waste site investigation and industrial hygiene. HAPSITE ER Chemical Identification Systems give you immediate, laboratory quality results in the field, and gives you the answers you need to make better and faster decisions about critical health and safety issues.



HAPSITE® ER Chemical Identification System

Thin Film Controllers, Monitors, and Crystals

Control your profit and maximize your competitive edge with market-leading products for thin film deposition, proven expertise, and worldwide support from the technology leader in measurement and control. INFICON controllers, monitors, quartz crystal sensors, and quartz crystals are designed and manufactured to provide the best quality, accuracy, and the longest crystal life in thickness monitoring and process control for PVD applications.



IC6 Thin Film Deposition Controller



Visionary Sensor Technology

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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