



CDG100D, CDG160D, CDG200D

High Precision Vacuum Gauge

Excellent performance for high
temperature applications

CDG100D, CDG160D, CDG200D Vacuum Gauges

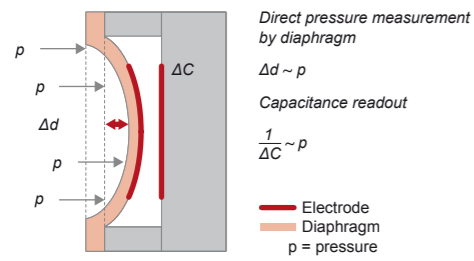


The INFICON heated CDG Capacitance Diaphragm Gauge line is designed for stable long time performance in harsh manufacturing environments. The temperature controlled corrosion resistant ultra-pure ceramic sensor provides superior span stability over many years paired with state-of-the-art zero stability. An innovative heating concept reduces power consumption. The heated CDG Capacitance Diaphragm Gauge comes with a safe to touch surface even for the 200°C version. Advanced electronics offer the user a wide range of suitable filters yielding solutions for all applications and a choice of fieldbus interfaces. A unique sensor shield (patents granted) protects the gauge from undesired process byproducts. A total Alumina coating immunizes the product against chemical attack.

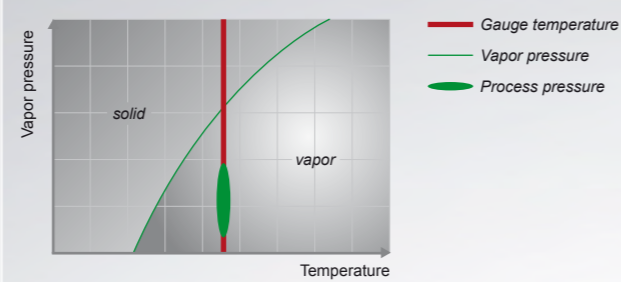
Typical applications

- High temperature coating
- Sterilization
- Oxidation
- Dry etch
- General high temperature vacuum applications
- CVD

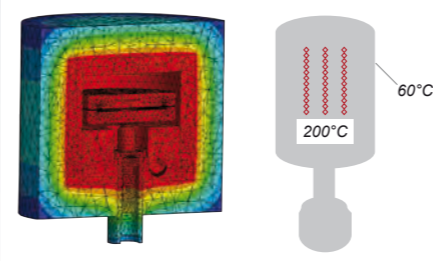
CDG working principle



Designed for harsh and corrosive applications



Advanced heating concept



- Temperature stabilized at $\pm 0.1^\circ\text{C}$
- Innovative isolation material
 - touchable surface at 200°C
 - small footprint
- Immune to ambient environment
- SEMI S2 compliant
- Excellent temperature stability
- Low power consumption
- Fast warm up

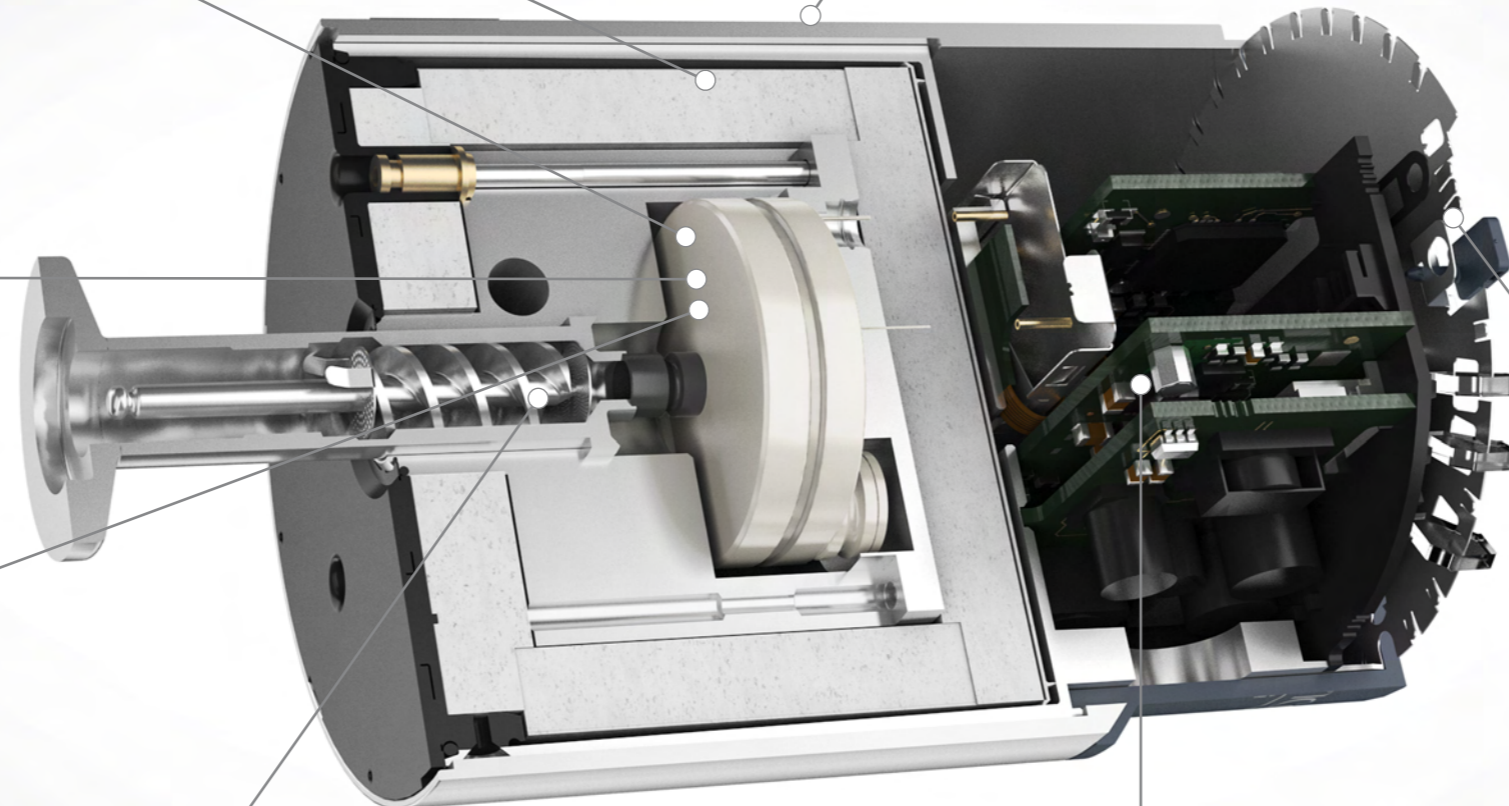
Span stability

Any mounting orientation



Fully ceramic sensor

Bonded ceramic structure combined with digital signal processing provides superior measurement performance.



Interface I/O

- Classic analog signal 0 ... 10V
- Wide range power supply
- Zero adjust, push button / remote DI
- 2 individual setpoints
- Status LED
- Diagnostic port
- Fieldbus: DeviceNet, Profibus, EtherCAT, RS-232

DeviceNet



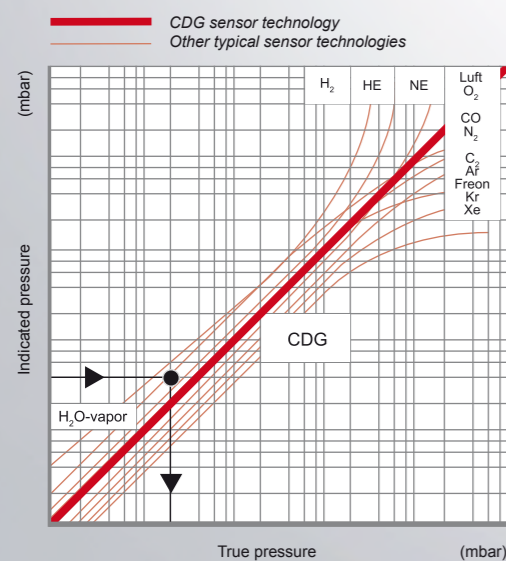
Profibus



EtherCAT



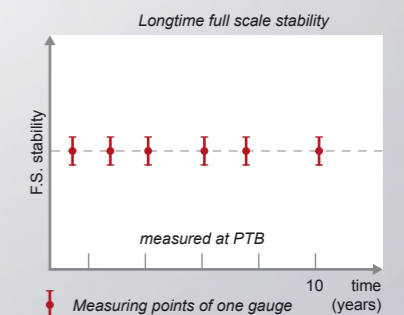
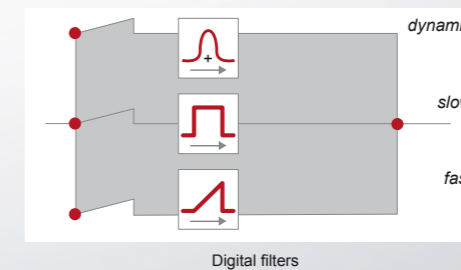
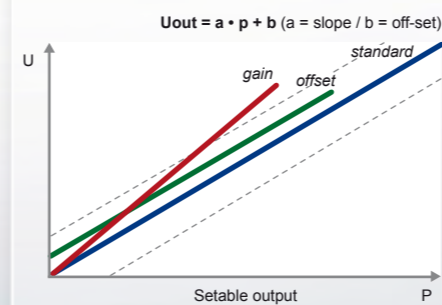
Gas type independence



Gauge protection for increased lifetime

| | |
|---------|---|
| Level 1 | Baffle Stops coating, particles |
| Level 2 | Heater Prevents condensation / deposition |
| Level 2 | Shield Protects diaphragm |
| Level 4 | Protective coating Corrosion protection |

Digital signal processing

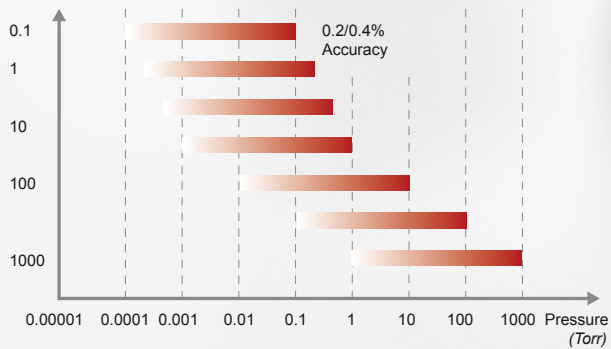


CDG100D, CDG160D, CDG200D, HEATED ADVANTAGES AT A GLANCE

- Outstanding stability
- Long lifetime
- No periodical recalibration required
- Digital signal processing
- Corrosion resistant Alumina sensor

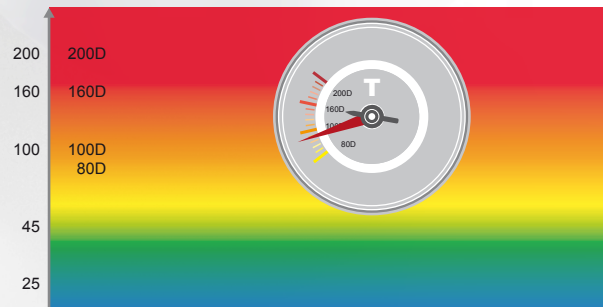
Measurement ranges

Full Scale (Torr)



Temperatures

°C



Temperatures to match your process

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.



Americas

INFICON Inc.
East Syracuse, NY
Phone: +1.315.434.1100
E-mail: reach.us@inficon.com

Europe, Middle East and Africa

INFICON GmbH
Cologne
Phone: +49.221.567.881.00
E-mail: reach.germany@inficon.com

Asia and Pacifica

CHINA
INFICON Ltd.
Beijing
Phone: +86.10.6590.0164
E-mail: reach.china@inficon.com

INDIA
INFICON PVT. Ltd.
Pune
Phone: +91. 20. 4120. 4854
E-mail: reach.india@inficon.com

JAPAN
INFICON Co. Ltd.
Yokohama-shi, Kanagawa-ken
Phone: +81.45.471.3328
E-mail: reach.japan@inficon.com

KOREA
INFICON Ltd.
Kyunggi-do
Phone: +82.31.783.2942
E-mail: reach.korea@inficon.com

SINGAPORE and AUSTRALIA
INFICON PTE Ltd.
Singapore
Phone: +65.6631.0300
E-mail: reach.singapore@inficon.com

TAIWAN
INFICON Co. Ltd.
Chupei City
Phone: +886.3.552.5828
E-mail: reach.taiwan@inficon.com



inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice.

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