

Visionary Sensor Technology



CDG045D

High Precision Vacuum Gauge

True pressure measurement

CDG045D Vacuum Gauge



The INFICON temperature controlled CDG Capacitance Diaphragm Gauge line is designed for the highest accurate total pressure measurement available today. The temperature controlled corrosion resistant ultra-pure ceramic sensor provides superior span stability over many years paired with state-of-the-art zero stability. 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.

Typical applications

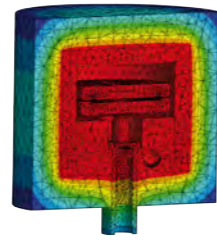
- Quality control, reference vacuum
- Load Lock
- Puller, ovens
- Industrial
- PVD, CVD, Etch
- Analytical
- Oxidation

Span stability

Any mounting orientation



Temperature control

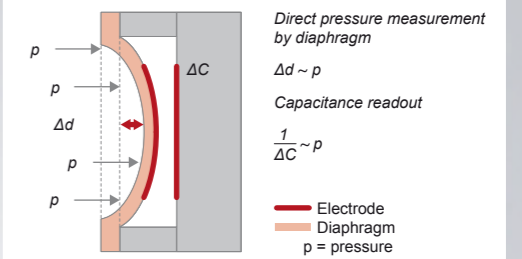


- Temperature controlled at $\pm 0.1^\circ\text{C}$
- Fast warm up
- Immune to ambient environment

Gauge protection for increased lifetime

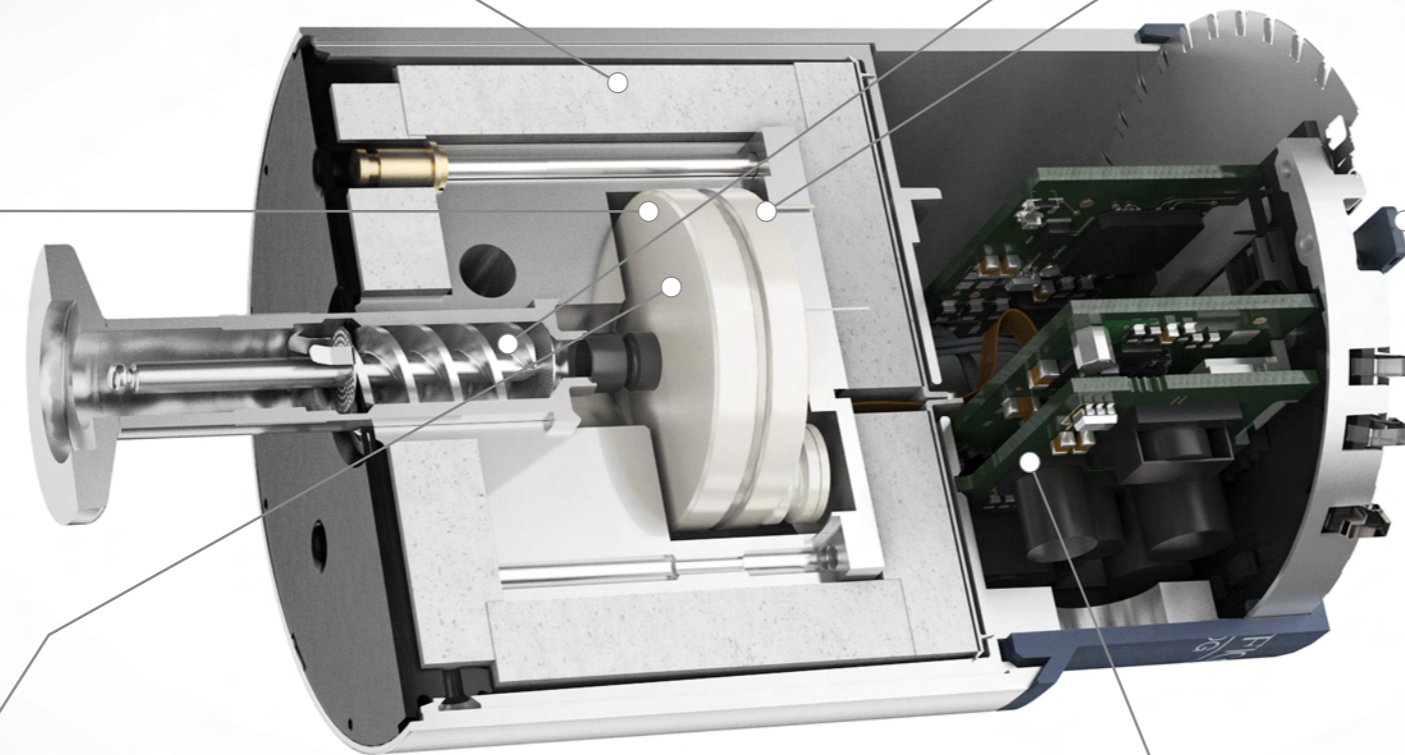
Level 1	Baffle Stops coating, particles
Level 2	Shield Protects diaphragm
Level 3	Protective coating Corrosion protection

CDG working principle



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



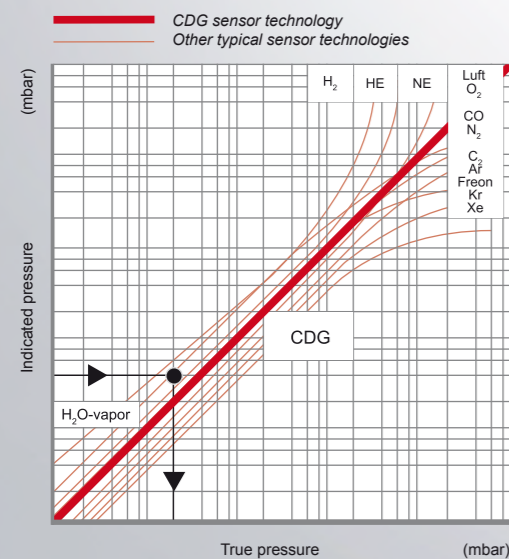
Profibus



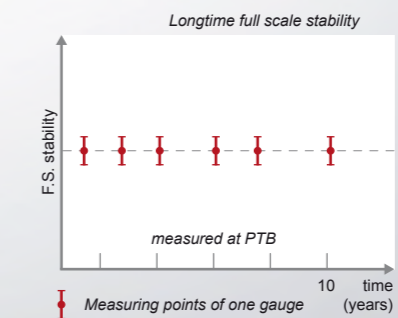
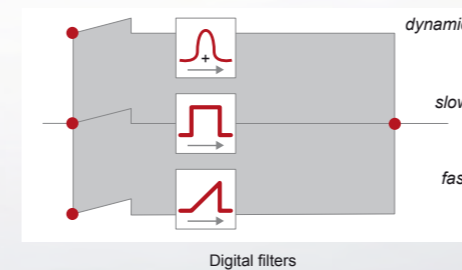
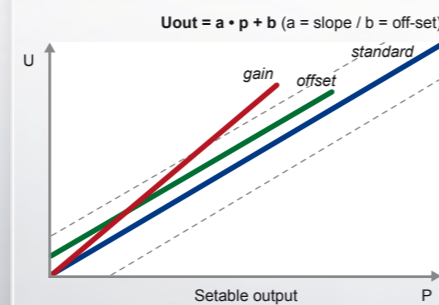
EtherCAT



Gas type independence



Digital signal processing



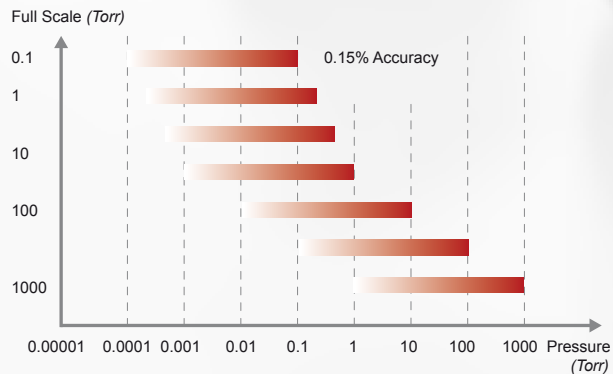
Ceramic sensor technology offers superior long-term stability.

CDG045D TEMPERATURE CONTROLLED ADVANTAGES AT A GLANCE

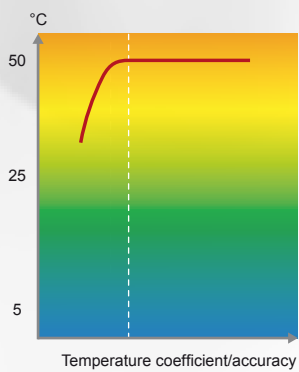
- Unprecedented Full Scale stability
- No periodical recalibration required
- Digital signal processing
- Corrosion resistant Alumina sensor



Measurement ranges



Temperature coefficient



In-situ architecture assures an excellent temperature stability of zero and span.

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

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