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
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Temperature control
- Temperature controlled ± 0.1°C
- Fast warm up
- Immune to ambient environment

Gauge protection for increased lifetime
- Level 1: Basic protective coating
- Level 2: Fusion coating
- Level 3: Proven coating (Advanced ceramics)

Digital signal processing
- Dynamic slow/fast
- Digital filters
- Setable output
- Gain: standard, offset
- Time: measured at PTB

Span stability
- Any mounting orientation

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

Gas type independence
- CDG sensor technology offers superior long-term stability.

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

CDG working principle
- Direct pressure measurement by diaphragm
- Capacitance readout
- Electrode
- Diaphragm
- p = pressure

Ceramic sensor technology offers superior long-term stability.

CDG045D Vacuum Gauge
CDG045D TEMPERATURE CONTROLLED ADVANTAGES AT A GLANCE

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