



# SKY<sup>®</sup> CDG100D CDG160D, CDG200D Vacuum Gauge

High precision vacuum gauge.

 **INFICON**  
Inspired by visions. Proven by success.

# SKY® CDG100D, CDG160D, CDG200D vacuum gauge

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, ALD

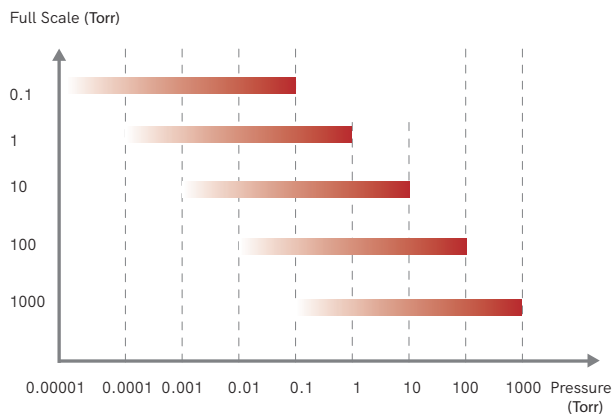
## ADVANTAGES AT A GLANCE

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

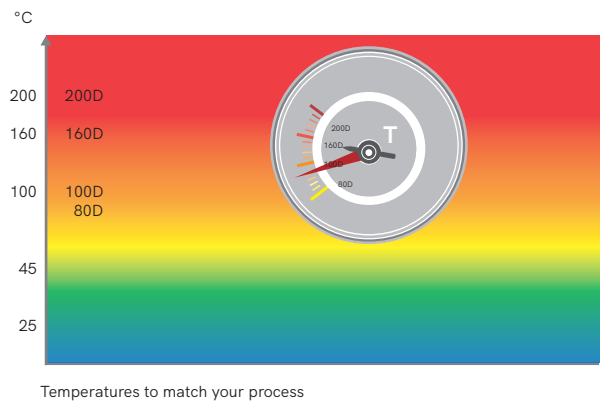




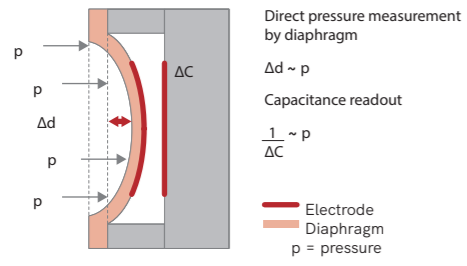
## Measurement ranges



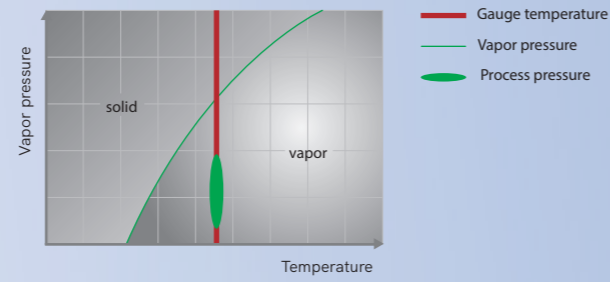
## Temperatures



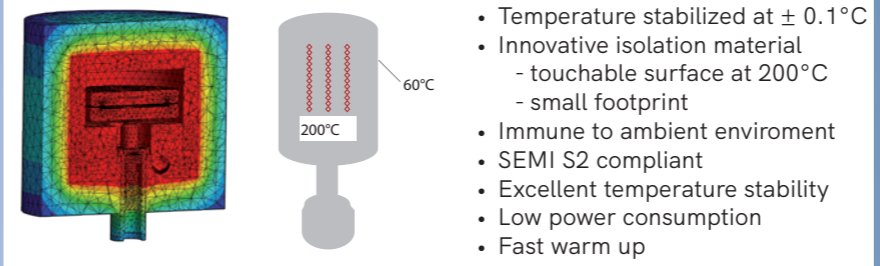
### CDG working principle



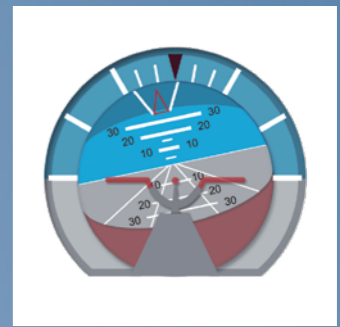
### Designed for harsh and corrosive applications



### Advanced heating concept

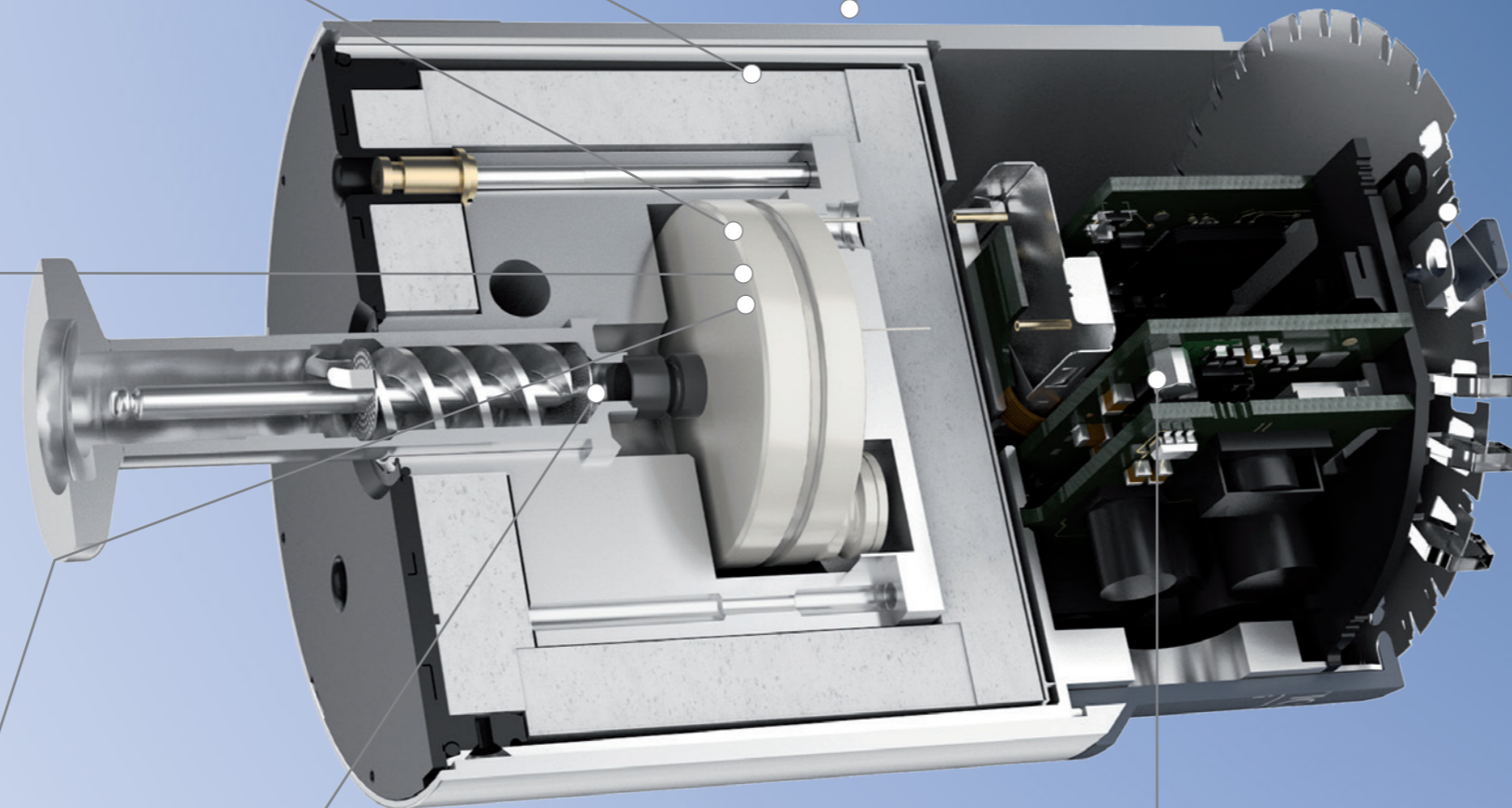


### Span stability Any mounting orientation



### Fully ceramic sensor

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



### Interface I/O

- Analog signal 0 ... 10V or 4 - 20 mA
- Wide range power supply
- Zero adjust, push button / remote DI
- 2 individual setpoints
- Status LED
- Diagnostic port
- Fieldbus: DeviceNet, Profibus, EtherCAT, RS-232

DeviceNet



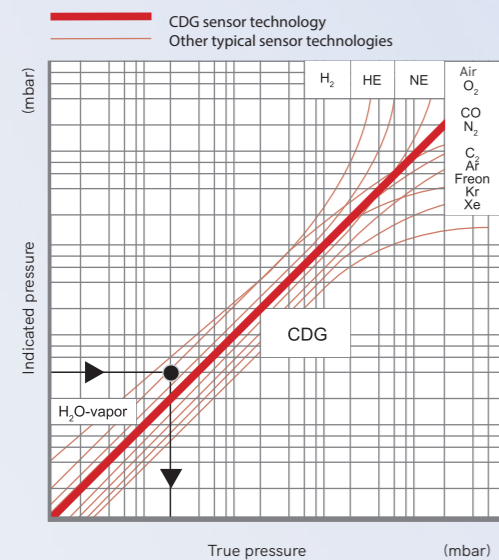
Profibus



EtherCAT



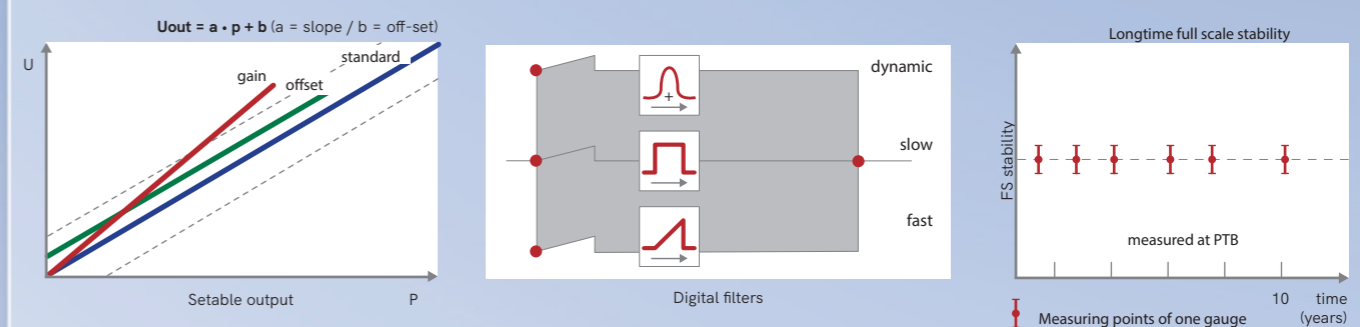
### Gas type independence



### Gauge protection for increased lifetime

Level 1	<b>Baffle</b> Stops coating, particles
Level 2	<b>Heater</b> Prevents condensation / deposition
Level 3	<b>Shield</b> Protects diaphragm
Level 4	<b>Protective coating</b> Corrosion protection

### Digital signal processing



**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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