



# Edge<sup>®</sup> CDG025D2, CDG045D2, CDG100D2 High precision Vacuum Gauge

Hot Inside. Small Outside.

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

# Edge<sup>®</sup>

## High precision vacuum gauge

INFICON Edge<sup>®</sup> Capacitance Diaphragm Gauge is a highly accurate vacuum measurement instrument designed for harsh manufacturing environments. The proven temperature controlled, corrosion resistant, ultra-pure ceramic sensor provides superior span stability over many years paired with state-of-the-art zero stability. Edge comes with the INFICON patented unique sensor shield which protects the gauge from undesired process by-products.

### TYPICAL APPLICATIONS

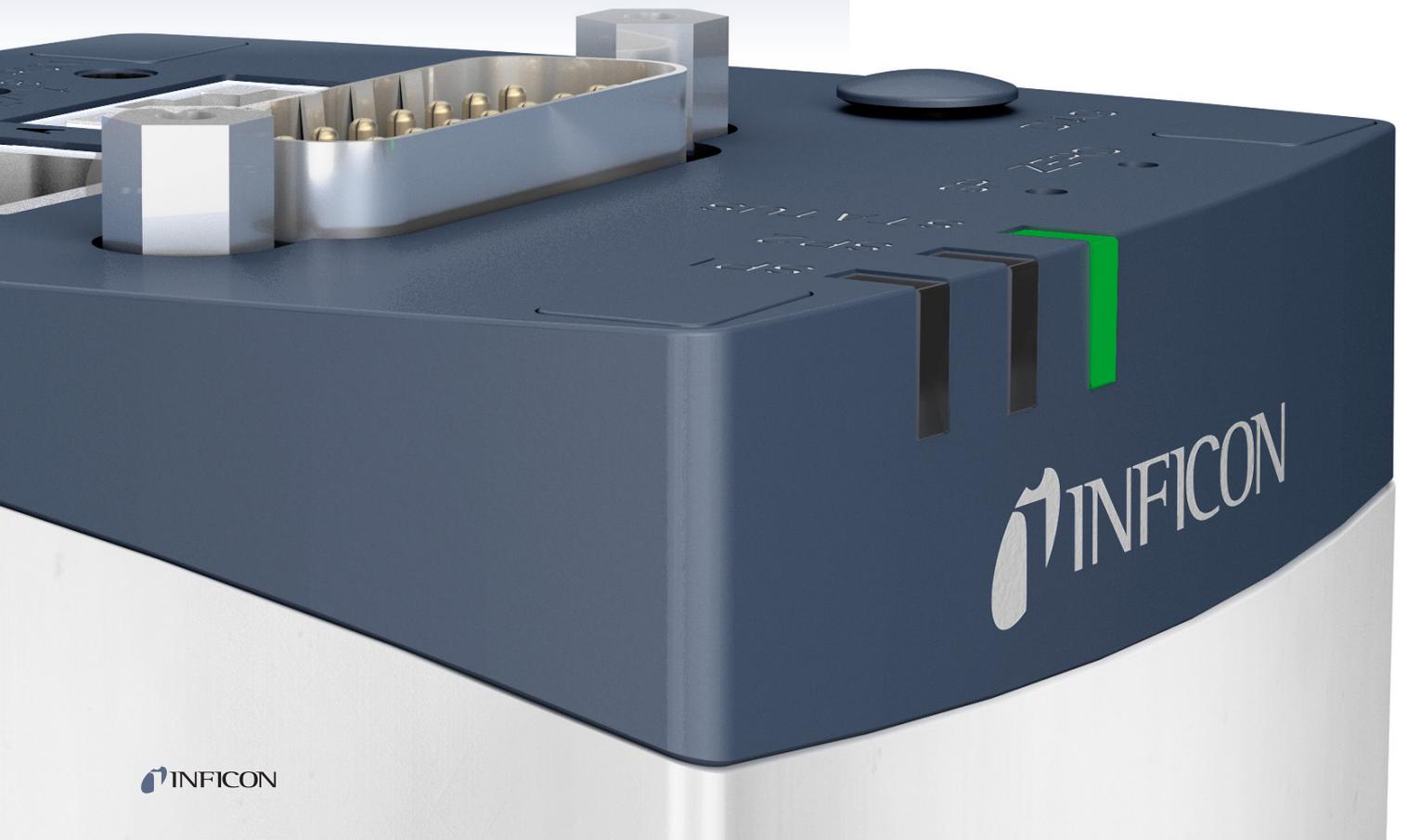
- CVD, Etch, PVD, ALD
- Analytical applications
- General high temperature vacuum applications

### ADVANTAGES AT A GLANCE

- Low tool space required - Smallest instrument in class
- Flexible integration - EtherCAT<sup>®</sup> fieldbus
- Long lifetime - Proven ceramic sensor
- Forget recalibration - 90ppm/year full scale stability

Advanced electronics offer a wide range of configurable signal conditioning for all applications and optional EtherCAT<sup>®</sup> fieldbus interface.

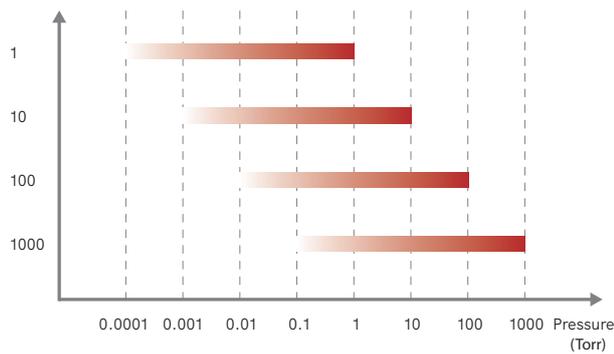
The innovative heating concept enables a cool to the touch surface and saves valuable tool space. INFICON Edge<sup>®</sup> is the smallest vacuum measurement instrument of its kind.



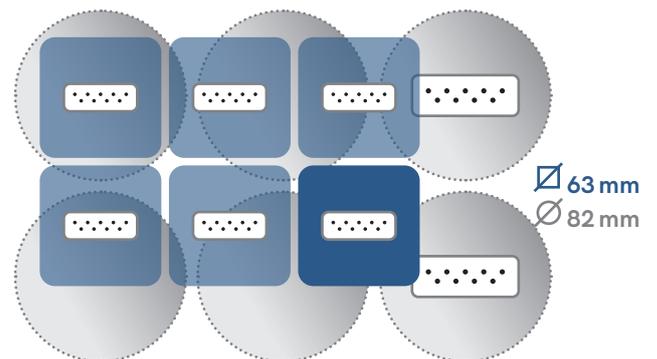


### Measurement ranges

Full Scale (Torr)



### Space-saving design

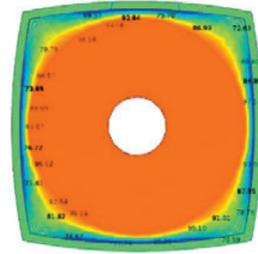


### Fully ceramic sensor

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

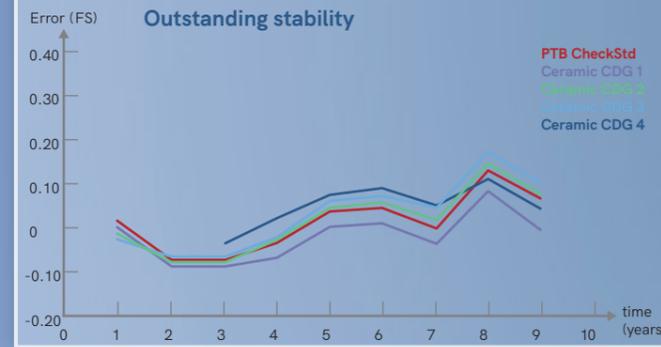


### Air insulation

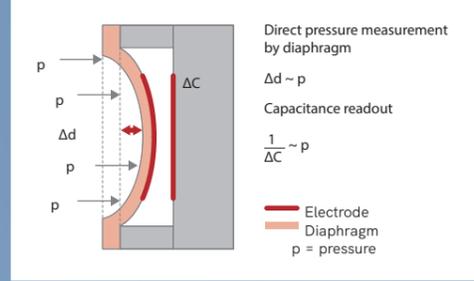


- Temperature controlled at  $\pm 0.1^\circ\text{C}$
- Fast warm up
- Insulated to changing ambient

### Outstanding stability

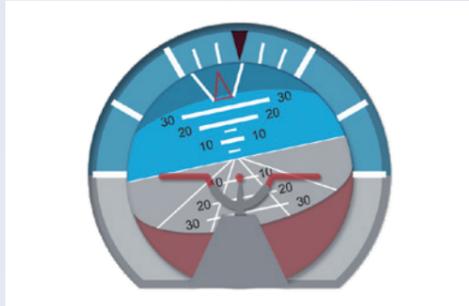


### CDG working principle

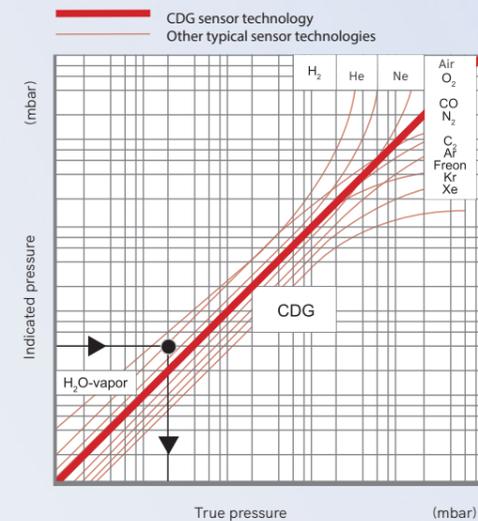


### Span stability

Any mounting orientation



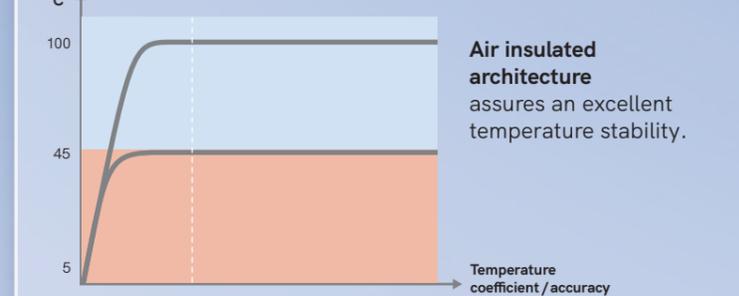
### Gas type independence



### Gauge protection for increased lifetime

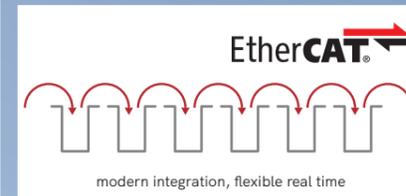
Level 1	<b>Baffle</b> Stops coating, particles
Level 2	<b>Heater</b> Prevents condensation / deposition
Level 3	<b>Shield</b> Protects diaphragm
Level 4	<b>Protective coating</b> Corrosion protection

### Temperature ramp / stability

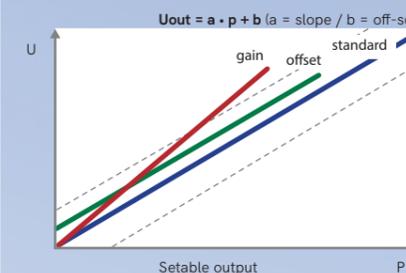
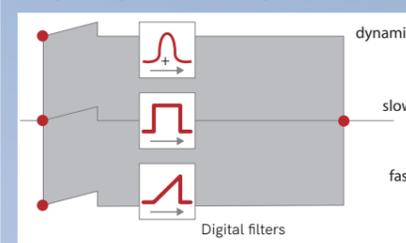


### Interface I/O

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



### 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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