



Visionary Sensor Technology



Stripe™

CDG045Dhs, CDG100Dhs,
CDG160Dhs, CDG200Dhs
High Speed Vacuum Gauge

Smart Inside – Fast Outside

Stripe CDG045Dhs, CDG100Dhs, CDG160Dhs, CDG200Dhs Vacuum Gauge



CDG working principle

Direct pressure measurement by diaphragm
 $\Delta d \sim p$
 Capacitance readout
 $\frac{1}{\Delta C} \sim p$

— Electrode
 — Diaphragm
 p = pressure

Advanced heating concept

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

Flexible integration fast readout

EtherCAT

Higher productivity

Standard Stripe

Settling time

dead time

Fully ceramic sensor

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

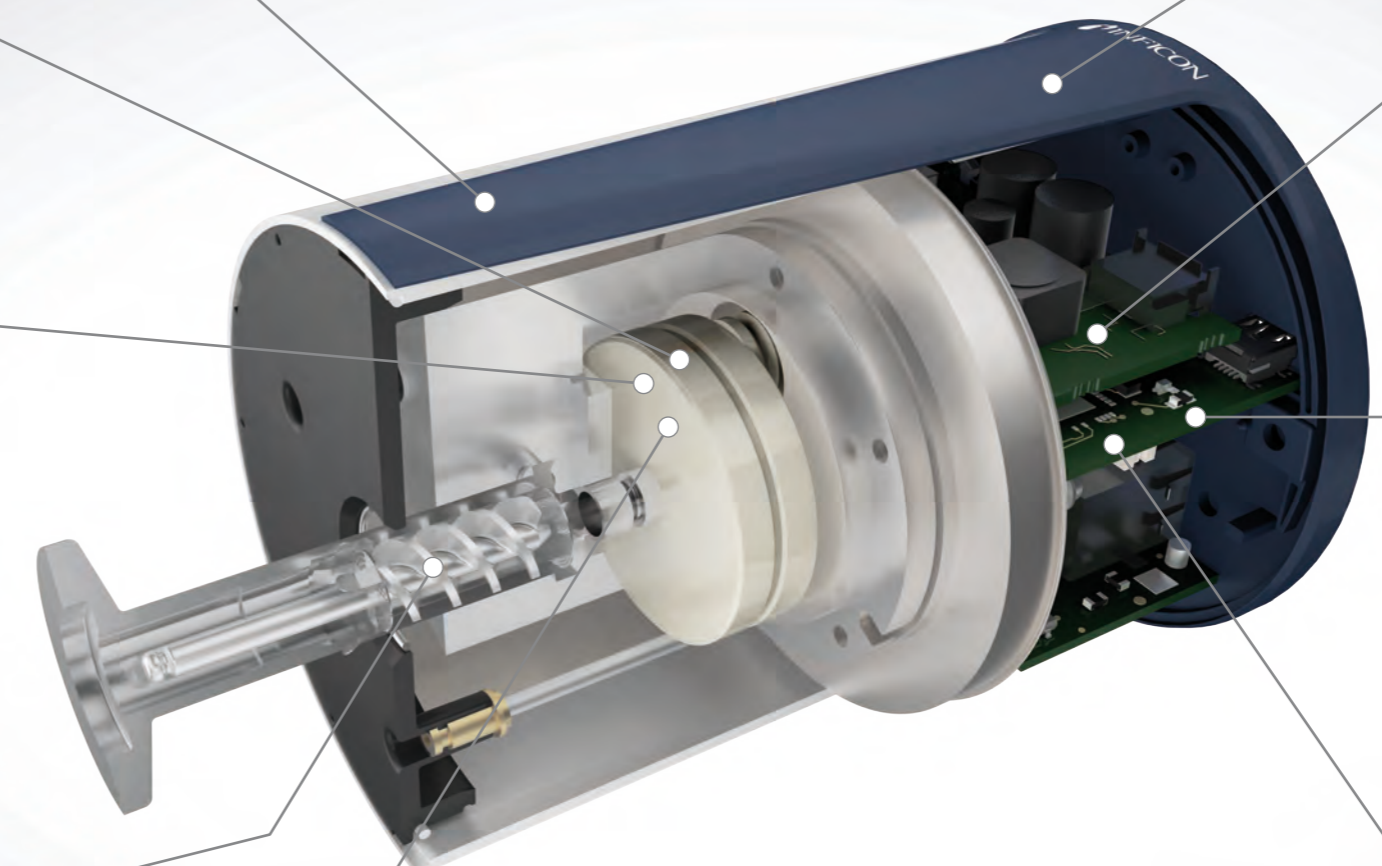
Enabling process innovation

Standard Stripe

Si

Increased layer quality

Process pressure settling time



Gauge protection for increased lifetime

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

Any mounting orientation

Low noise/Advanced Pressure Control

Stripe Standard

Stable butterfly valve position

Butterfly valve position fluctuation

at 1 ms readout rate at 20 ms readout rate

INFICON Stripe high-speed Capacitance Diaphragm Gauges are the fastest, highly accurate vacuum measurement instruments available. With a less than 1 ms response time combined with the EtherCAT fieldbus interface it opens up a total new field of applications. 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.

Stripe comes with the INFICON patented unique sensor shield which protects the gauge from undesired process by-products.

INFICON Stripe using an innovative heating concept, which provides a cool to the touch surface, and its unique speed capabilities, enabling an unprecedented productivity increase, making it the most advanced vacuum instrument of its kind.

- Typical applications**
- Atomic layer deposition
 - PVD, CVD, Etch
 - High speed process control
 - General high temperature vacuum applications

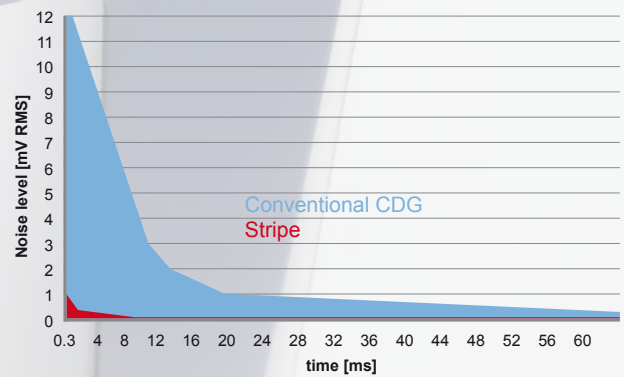
STRIPE ADVANTAGES AT A GLANCE

- High productivity – Faster than 1 ms response time
- Flexible integration – EtherCAT fieldbus
- Long lifetime – Proven ceramic sensor
- Forget recalibration – 90 ppm/year full scale stability

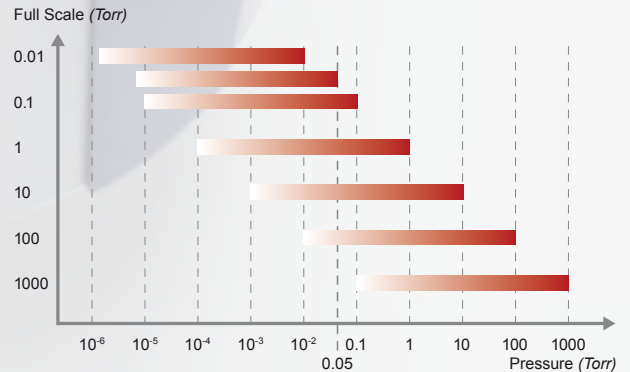
Diaphragm flexibility

Outstanding ceramic technology enables real 10 mT measurement

Speed/Noise performance



Measurement ranges



Real 10 mTorr.
Identify the new 10 mTorr fullscale Stripe



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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