# Capacitance Diaphragm Gauge

**CDG:** gas type independent, high accuracy corrosion resistant

<table>
<thead>
<tr>
<th>Sensor Temperature [°C]</th>
<th>Accuracy [%]</th>
<th>Characteristics</th>
<th>Set points</th>
<th>Full scales [Torr]</th>
<th>Product</th>
<th>Type</th>
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<tr>
<td>Ambient 0.5</td>
<td>0.5</td>
<td>Compact Gauge w/o</td>
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<td>0.01 - 10</td>
<td>CDG020D</td>
<td>Porter</td>
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<td>0.1 - 100</td>
<td>CDG025D</td>
<td>SKY</td>
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<td>Current Loop 4-20mA w/o</td>
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<td>0.5 - 1000</td>
<td>CDG025DX3</td>
<td>Stripe</td>
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<td>0.2</td>
<td>Standard Gauge w/o</td>
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<td>0.1 - 100</td>
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<td>SKY</td>
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<td>0.2</td>
<td>EtherCAT 2</td>
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<td>CDG025D2</td>
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<td>0.5 - 1000</td>
<td>CDG200D</td>
<td>SKY</td>
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<td>Process Gauge 2</td>
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<td>CDG100D</td>
<td>SKY</td>
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</table>

Please select part number, flange, connector, filter, field bus, etc in ordering information on website or data sheet

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*INFICON*
CDG - Family

CDG020D Porter
CDG025D
CDG045-200D SKY
CDG045-100D EDGE
CDG045-100Dhs STRIPE
CDG045Dsci CUBE

The Worker
unheated
The Worker
unheated, high precision

High Value
high precision

For Price
high precision

Temperature controlled
high precision 45 to 200°C
small 45 to 100°C
fast 45 to 100°C
highest precision 45°C

CDS500D SPOT – sensors for integration
CDS550D
CDG020D - Porter

- Stable and reliable pressure measurement
- Easy to use
- High Value-for-Price relation
- Either 0.5% or 1% of reading
- Protected against corrosive gases
CDG025D - room temperature CDG

- High precision
- Excellent temperature compensated

Choose from
- standard
- and Process CDG (harsh SEMI-processes)
CDG045D - CDG200D SKY

- Temperature controlled 45°C to 200°C
- High precision
- Avoid any condensation of process gas
- Protected against process-by-products
CDG045 / 100D2 - EDGE

- Temperature controlled 45°C to 100°C
- High precision
- Avoid any condensation of process gas
- Protected against process-by-products
- Smaller footprint compared to SKY CDG
CDG045 / 100Dhs - STRIPE

Fast measuring – short responsetime: less than 2 ms

Temperature controlled 45°C to 100°C
High precision

Option: lowest full scale 10 mTorr
Avoid any condensation of process gas
Protected against process-by-products
EtherCAT interface

![Graph showing fast response time]

This is fast:
CDG045Dsci - CUBE

- Highest precision [0.025% of R] – for calibration labs
- pure reference for vacuum systems
- Temperature controlled 45°C
- Instrument for scientists and quality gurus
- **20 Bit output**
  - analog,
  - RS232
  - TCP/IP
  - HTML
  - Ethernet, wired and wireless
CDS500 / CDS550D - SPOT
CDG sensors for integration

- The ideal choice for OEM who want to integrate a sensor
- CDS500D - a suspended ceramic sensor, weldable
- CDS550D - O-ring sealing surface
- Both sensors
- Al2O3 coated
- SPI interface
- short response time (less than 2 ms)
- customer interface required (mech. and el.)
In the beginning – there is a decision

Which is my CDG?

Sensor for integration? y SCORE
n – Temperature controlled?
to avoid condensation?

for robust measurement at room temperature

standard small fast

Calibration standard high precision

for Precision?

Precision
0.5% / 1% 0.2%

special protection SKY EDGE STRIPE

CDG020D CDG025D CDG025D-X3 CUBE SKY CDG045D
Global Presence

950 employees; offices in 17 countries
Local support of customers is INFICON’s competitive advantage
Visionary Sensor Technology