

CDG015D 4-20mA current loop

Ceramic Diaphragm Gauge

The INFICON CDG015D Ceramic Diaphragm Gauge is designed for robust and reliable measurement in a variety of industrial applications. Advanced digital electronics improve gauge performance and offer easy handling features such as one push button zero function. The CDG015D is a compact sensor with IP 65 and an output signal of 4-20 mA.



ADVANTAGES

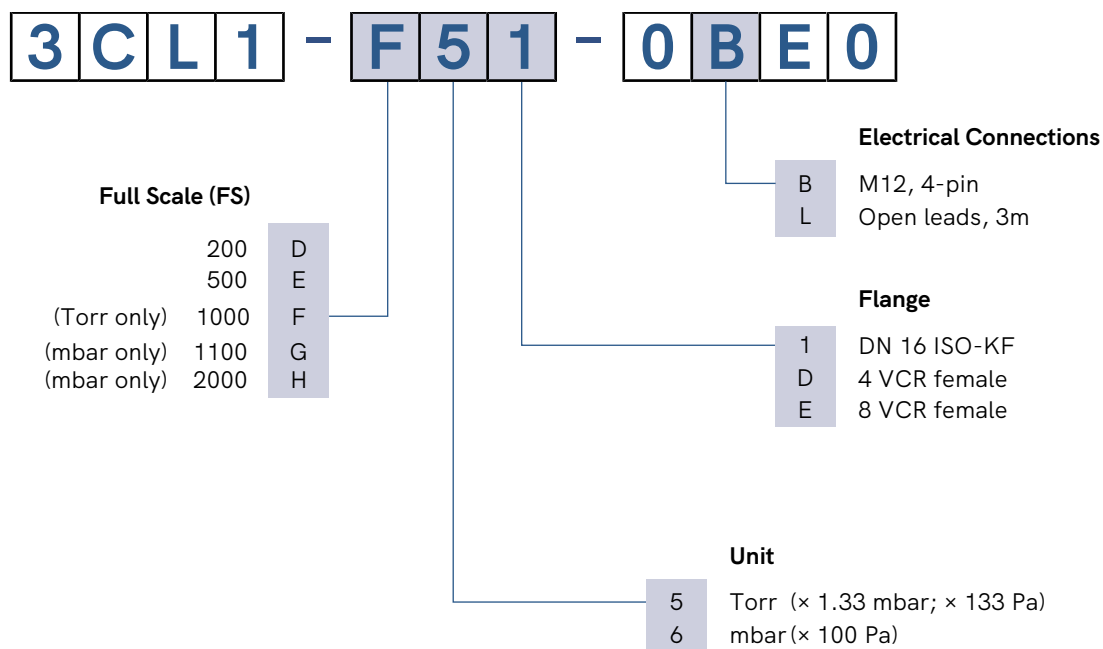
- Interface with 2-wire current loop
- One push button zero function
- IP65 enclosure for harsh environments
- Chemical & Corrosion resistant ceramic sensor

APPLICATIONS

- Furnace
- Diamond growth (CVD)
- PECVD (Plasma Enhanced Chemical Vapor Deposition)
- General fore-line pressure measurement
- Freeze drying

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ORDERING INFORMATION



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SPECIFICATIONS

Full scale (FS) Torr / mbar	2000	1000 / 1100 ... 200
Accuracy ¹⁾		
2000 mbar, 1100 mbar		0.75 % of reading
1000 Torr		0.75 % of reading
500 Torr / 500 mbar	+/- 1 % of reading or +/- 0.15% of FS, whichever is greater	
200 Torr / 200 mbar	+/- 1 % of reading or +/- 0.35% of FS, whichever is greater	
Temperature effect		
on zero		0.01 % FS / °C
on span		0.01 % FS / °C
Resolution		0.05 % FS
Response time ²⁾		≤20 ms
Pressure, max. (absolute)	400 kPa	200 kPa
Temperature		
Operation (ambient)		-40 ... +100 °C
Bakeout at flange ³⁾		≤100 °C
Storage		-40 ... +100 °C
Supply voltage		+12 ... +30 V (dc)
Output signal (analog)		2-wire, current loop
Relationship current-pressure		linear
Signal range		4.0 ... 20.0 mA
Measuring range (zero ... FS)		3.2 ... 3.6 mA
Degree of protection		IP 65
Standards		
CE conformity	EN 61000-6-3, EN 61010, 61326-1 & RoHS	
Electrical connection		M12, 4-pin male cable 3m, open leads
Materials exposed to vacuum		
Flange DN 16 ISO-KF		SS 1.4404, AISI 316
Flange 4 VCR female, 8 VCR female		SS 1.4404, AISI 316L
Sensor and diaphragm		ceramics (Al ₂ O ₃ 96%)
Sealing		<1x10 ⁻⁹ mbar l/s
Internal volume		
DN 16 ISO-KF		3,2 m ³
4 VCR female		0,6 m ³
8 VCR female		2,4 m ³
Weight	128 ... 212 g	

¹⁾ Non-linearity, hysteresis, repeatability in the calibrated range +10°C ... +50°C without temperature effects

²⁾ Increase 10 ... 90% FS

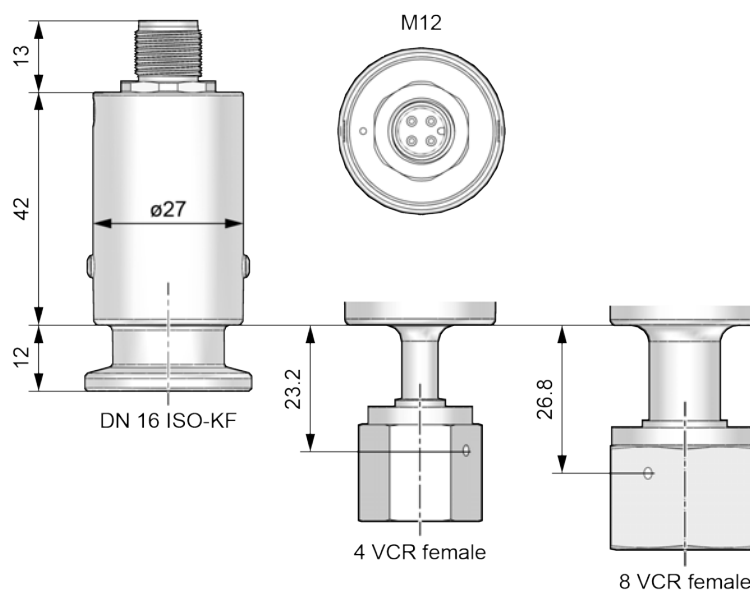
³⁾ Non-operation

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DIMENSIONS

[mm]

M12



Open leads cable

