

	Series 900 Micro Bee™ Capacitance Dia	ohragm Vacuum Gauge
Gas Independent Vacuum Gauge	Outstanding stability with consistent long term performance	
Full scale ranges from 10 to 1000 Torr	Elegant cost effective design 0.5% and 1% accuracy models	BE New York
Ceramic Sensor	Chemical Resistance No span adjustment required No zero adjust in clean applications	MICRO BEE
Prolonged lifetime in harsh environments	Corrosion resistant feed through	
Built-in Controller with 0 to 10 Vdc analog output as well as remote zero adjust capability	Super compact size and digital electronics provides great flexibility in any system integration	

CDM900 Micro Bee

The CDM900 *Micro Bee™ Capacitance Diaphragm* vacuum gauge is an economical, gas type independent absolute pressure sensor. The CDM900 provides excellent long term stability and performance.

The sensor assembly is constructed of a compact ceramic and metal design resulting in a simple yet rugged sensor suitable for numerous industrial applications.

The ceramic sensor provides outstanding span and zero stability allowing many years of maintenance free operation.

The corrosion resistant sensor material provides excellent temperature compensation capability, thus enhancing the reliability of the pressure measurements.

The CDM900 *Micro Bee* vacuum gauge module provides the basic signal conditioning required to turn the sensor into a complete vacuum pressure measurement instrument. The combination of superior sensor design and enhanced signal processing provides optimal and stabile pressure readings by the instrument.

The built-in controller provides a 0 to 10 Vdc analog output for pressure measurements and allows for local or remote zeroing of the instrument.

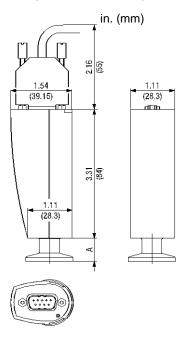
Specifications

full scale (F.S.) ranges - Torr	1000, 500, 200, 100, 50, 20, 10	
lowest reading	0.05% of F.S.	
accuracy (1)	model A: 1% of reading model B: 0.5% of reading	
temperature effect on zero	0.02% F.S./ °C	
temperature effect on span	0.02% of reading/°C	
resolution	0.05% F.S.	
long term stability	0.5% F.S./yr aluminum oxide ceramic (AI_2O_3)	
temperature compensated range	+10 to +50 °C	
materials exposed to gases		
sensor, feedthrough	aluminum oxide ceramic (AI_2O_3)	
flange, tube	stainless steel AISI 316L	
internal gauge volume	1/2 in. Tube: 0.219 in ³ (3.6 cm ³) KF16: 0.226 in ³ (3.7 cm ³) 4 VCR & 8 VCR: 0.342 in ³ (5.6 cm ³)	
temperature	operating: 0 to + 70 °C storage: -20 to + 85 °C	
bakeout temperature (at flange)	≤ 110 °C (non-operating)	
admissible pressure (absolute)	≥ 500 Torr F.S. = 58 psi (4 bar), 50 to 200 Torr F.S. = 43.5 psi (3 bar), 10 to 20 Torr F.S. = 29 psi (2 bar)	

humidity	0 to 80% relative humidity, non-condensing	
weight	4 to 5.7 oz. (115 to 160 g), flange/fitting dependent	
housing (electronics)	aluminum extrusion	
mounting orientation	any	
analog output	linear 0 to 10 Vdc	
max output signal	+ 10.24 Vdc	
response time	100 msec (from 10% to 90% F.S.)	
input power	13 to 30 Vdc, 0.3 W protected against power reversal	
supply voltage ripple	≤50 mVpp	
connector	9-pin D-sub male	
CE compliance	EMC (EN61000-6-2, EN61000-6-3, EN61010-1)	
environmental	RoHS compliant	

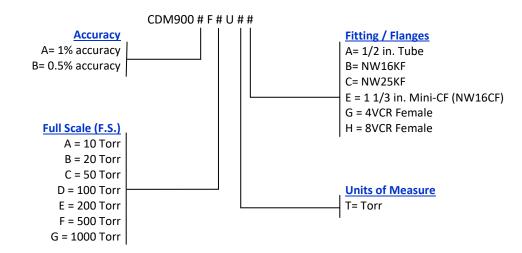
1) Non-linearity, hysteresis, repeatability at 25 Deg °C ambient temperature without temperature effects after 2 hours operation

Fitting	dimension A
1/2 in. Tube	0.59 in. (15.0 mm)
NW16KF	1.20 in. (30.7 mm)
NW25KF	1.39 in. (35.5 mm)
1 1/3 in. Mini-CF	1.28 in. (31.1 mm)
1/4 in. Cajon 4VCR	2.43 in. (61.8 mm)
1/2 in. Cajon 8VCR	1.77 in. (45.0 mm)



Ordering Information

CDM900 Part Number



Example: CDM900BFAUTB (CDM900, 0.5% accuracy, 10 Torr F.S, Torr units of measure, NW16KF fitting)



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