

Vacuum

Brooks® CMC Series Compact Capacitance Manometers

Overview

CMC Series

Used as the vacuum capacitance manometer of choice for thin-film processes, the Brooks® CMC Series Capacitance Manometers provide accurate total pressure measurement independent of gas composition.

The CMC Series delivers exceptional performance over a wide range of operating temperatures, making it an alternative choice to larger premium performance unheated gauges. The CMC is 40% smaller in size than traditional unheated Capacitance Manometers.

Ideal for Aggressive Applications

The all welded design and Inconel® wetted surfaces ensures reliable operation in even the most aggressive processes. The combination of precision components and a wide temperature compensated operating range allows the CMC to deliver best in class zero and span temperature coefficients for optimum measurement stability.

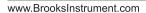
Available for Typical Process Ranges

The CMC Series is available in full scale ranges from 1000 Torr to 10 Torr and is an ideal upgrade for small form-factor Capacitance Manometers and an economical alternative to full sized unheated Capacitance Manometers.

Features

- 40% smaller than traditional unheated Capacitance Manometers, the CMC Series delivers similar performance in a space saving, economic package
- The optional high accuracy calibration matches the accuray of more costly premium un-heated manometers
- The robust all welded construction ensures optimum measurement repeatability compared to other designs that are prone to error inducing internal stresses that cause unpredictable variations in pressure measurement





Product Specifications

CMC Series Specifications

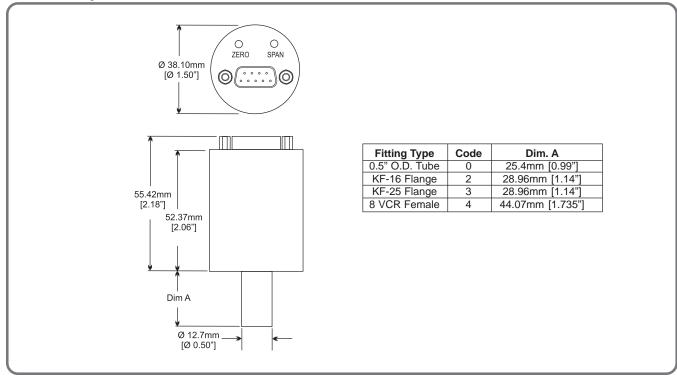
cuc			
CMC			
10, 20 50, 100, 500 and 1000 Torr			
Type A = 0.25% of reading; Type B = 0.5% of reading			
Infinite, limited by output noise (≤0.0006% F.S.)			
0.005% F.S. / °C			
0.027% Rdg / °C 20 msec			
mpensated Temperature 0 to 50°C			
nical			
Inconel [®]			
45 psia			
0.3 lbs. (137 grams)			
ilectrical			
+12 to 30 Vdc			
0-10 Vdc (<10K Ω load)			
<200 mW			
15-pin D sub on 6" cable			
9-pin D sub			
5-pin terminal strip			
Fully CE certified to EMC Directive 89/336/EEC			

Compliant

RoHs

- 1. RSS-Including hysterisis, linearity and non-repeatability.
- 2. Wetted material is for 1/2" tube stub option, other flanges and fitting will add stainless steel.

Dimension Drawing - CMC Series



Model Code

Code Description Code Opti		Code Option	Option Description	
l.	Base Model Number	CMCA	Compact Capacitance Manometer	
II.	II. Full Scale Range T11		10 Torr	
	-	T12	20 Torr	
		T15	50 Torr	
		T21	100 Torr	
		T31	1000 Torr	
		C11	10 mbar*	
		C12	20 mbar	
		C21	100 mbar	
		C31	1000 mbar	
		P11	1.333 kPa	
		P21	13.33 kPa	
		P31	133.3 kPa	
III.	Electrical Connector	1	9-pin sub D, 0-10 Vdc	
		2	5-pin terminal strip, 0-10 Vdc	
		3	15-pin sub D, 0-10 Vdc on 6" cable	
IV.	Fitting**	0	1/2" tube stub	
		1	KF10	
		2	KF16	
		3	KF25	
		4	8VCR® F	
		9	2.75" conflat	
		Q	1/4" tube stub	
		R	4VCR® F	
V.	Accuracy A		± 0.25% of reading accuracy	
٧.	recuracy	В	± 0.5% of reading accuracy	
			± 0.5 /0 of reading accuracy	
VI.	Compliance	R	RoHs Compliant	

 $^{^{\}star}$ Available with "B" Code (.5% of reading) only.

Sample Standard Model Code

i	II	III	IV	V	VI
CMCA	T11	1	Q	Α	R

^{**}Other flanges and fitting options available upon request, contact Brooks technical support.

Brooks Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons. *Please contact your nearest sales representative for more details.*

HELP DESK

In case you need technical assistance: Americas 1 888 554 FLOW Europe +31 (0) 318 549 290 Asia +81 3 (0) 5633 7100

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

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