AA09A

General Purpose Absolute Baratron® Capacitance Manometer

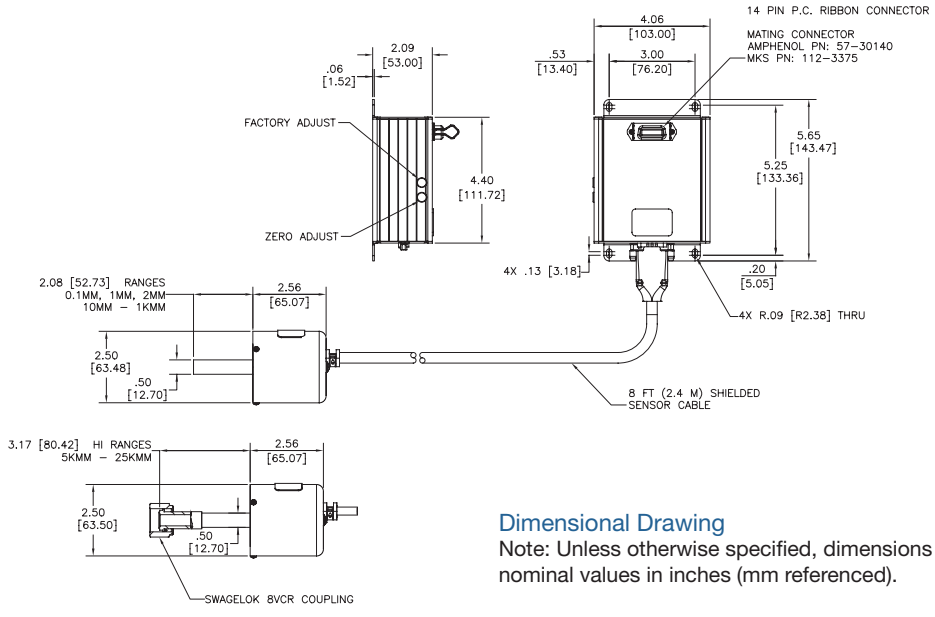
The AA09A Baratron® capacitance manometer employs a high temperature sensor which can operate at up to 150°C (bakeable to 200°C) for critical processing applications. Based on the well established Baratron capacitance manometer technology, the sensors wetted surfaces are Inconel® for excellent resistance to corrosive gases. The sensor and electronics of the AA09A are separated by an eight foot cable, which allows the electronics to be mounted away from sources of heat.

The AA09A can be used with MKS power supplies, display units, and pressure controllers, or the user's compatible power supply/readout devices.



Product Features

- All-metal sensor eliminates handling problems associated with glass, mercury, and liquid gauges
- Useable resolution of 1 part in 10,000
  - Minimizes the number of transducers required to cover a wide range of pressures
- Remote electronics allow sensor to operate at temperatures up to 150°C (bakeable to 200°C with cable removed)
- Sensor is capable of handling any corrosive gas compatible with Inconel and stainless steel



Dimensional Drawing

Note: Unless otherwise specified, dimensions are nominal values in inches (mm referenced).

Specifications & Ordering Information

Full Scale Range	1, 2, 10, 100, 1000, 5000, 10000, 15000, 20000, and 25000 Torr (mmHg)
Resolution	0.01% of Full Scale
Accuracy	0.5% of Reading (± temperature coefficients)
Temperature Coefficients	
Zero	0.02% Full Scale/°C
Span	0.04% of Reading
Ambient Operating Temperature	
Sensor	0° to 150°C (bakeable to 200°C with cable removed)
PreAmp	0° to 50°C
Overpressure Limit	120% of sensor F.S. or 35 psia whichever is greater
Materials Exposed to Gases	Inconel and 316 SST
Volume	7.0 cc
Input Power Required	±15 VDC @ 35mA regulated to ±5%
Output	0 to 10 VDC into >10k
Electrical Connector	14-pin micro
Fittings	0.50 inch (12.7 mm) O.D. tube (standard), 8 female VCR®, 1.33 inch (33.8 mm) Conflat®, and NW16-KF
Compliance*	CE

*When used with an overall metal braided shielded cable, properly grounded at both ends.

Ordering Code Example: AA09AXXXXXX	**Code**	**Configuration**
Basic Model	AA09A	AA09A
Ranges - Torr		
1	01	13
2	02	
10	11	
100	12	
1000	13	
5000	53	
10000	14	
15000	RB	
20000	24	
25000	RC	
Units of Measurement		
Torr/mmHg	T	M
mbar	M	
KPa	K	
Pa	L	
Fittings		
Straight tube, 0.5” OD (≤1000 Torr)	BA	CE
8 VCR female	CE	
Mini Conflat, Rotatable	HA	
NW16-KF (≤1000 Torr)	GA	
Accuracy		
Standard 0.5% of Reading	0	0

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