

AA09A

General Purpose 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.

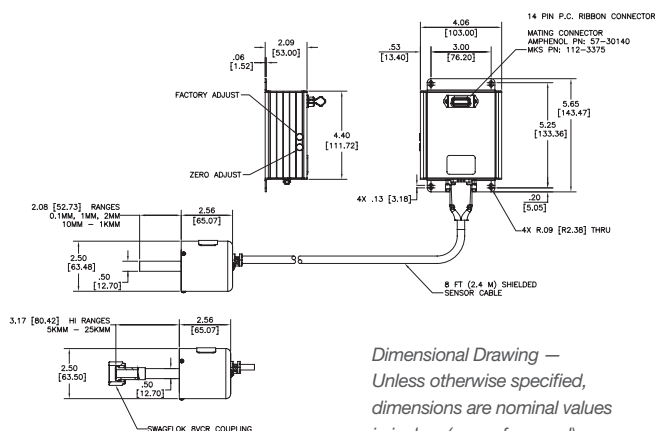
Product Features

- 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



Key Benefits

- 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 —
Unless otherwise specified,
dimensions are nominal values
in inches (mm referenced).*

Specifications		
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 ($\pm$ temperature coefficients)
Temperature Coefficients	Zero Span	• 0.02% Full Scale/$^{\circ}$C • 0.04% of Reading
Ambient Operating Temperature	Sensor PreAmp	• 0° to 150°C (bakeable to 200°C with cable removed) • 0° to 50°C
Overpressure Limit		120% of sensor Full Scale or 35 psia whichever is greater
Materials Exposed to Gases		Inconel and 316 SST
Volume		7.0 cc
Input Power Required		$\pm$ 15 VDC @ 35mA regulated to $\pm$ 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
Model		
AA09A	AA09A	AA09A
Ranges (Torr)		
1 2 10 100 1000 5000 10000 15000 20000 25000	01 02 11 12 13 53 14 RB 24 RC	13
Units of Measurement		
Torr/mmHg mbar kPa Pa	T M K L	M
Fittings		
Straight tube, 0.5"OD ($\leq$ 1000 Torr) 8 VCR female Mini Conflat, Rotatable NW16-KF ($\leq$ 1000 Torr)	BA CE HA GA	CE
Accuracy		
Standard 0.5% of Reading	0	0