## AA09A

## General Purpose Absolute Baratron® Capacitance Manometer

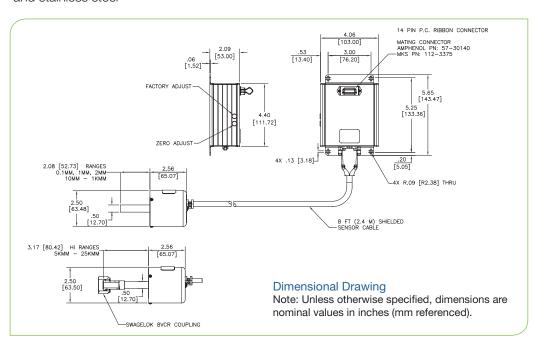


The AA09A Baratron® capacitance manometer employs a high temperature sensor which can operate at up to 150°C (bakeable to 200°C) for critical processing applications. Based on the well established Baratron capacitance manometer technology, the sensors wetted surfaces are Inconel® for excellent resistance 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





## **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   |  |  |
|                               |  |  |  |

<sup>\*</sup>When used with an overall metal braided shielded cable, properly grounded at both ends.

| Ordering Code Example: AA09AXXXXXX  | Code<br>AA09A | Configuration AA09A |
|-------------------------------------|---------------|---------------------|
| Basic Model                         |               |                     |
| 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                           | Т             | М                   |
| mbar                                | M             |                     |
| KPa                                 | K             |                     |
| Pa                                  | Ĺ             |                     |
| 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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