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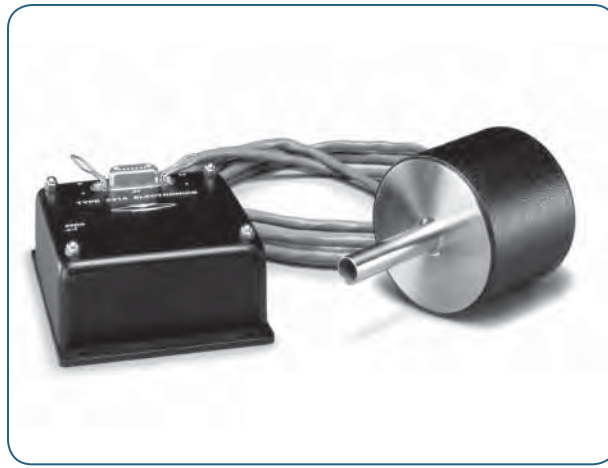
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Baratron[®] Manometer

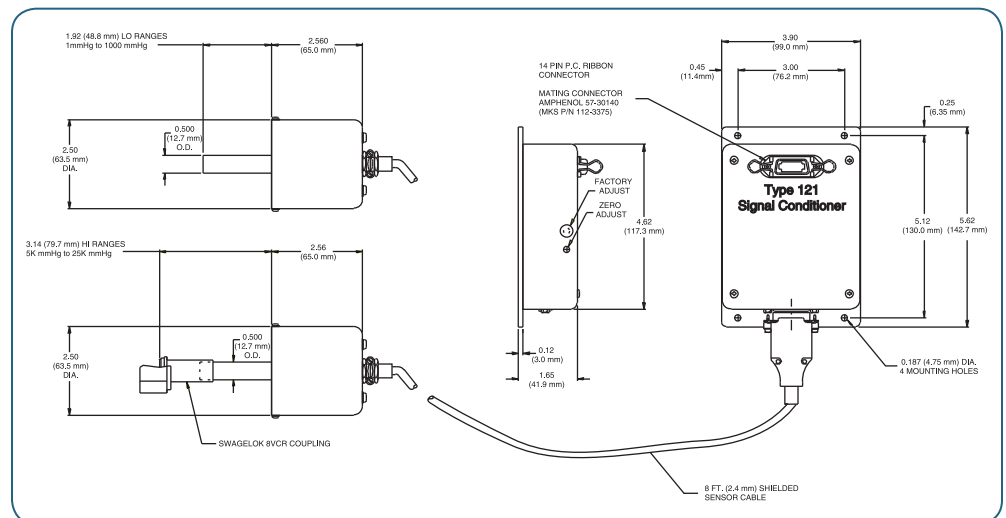
TYPE 121A - GENERAL PURPOSE ABSOLUTE

The MKS Type 121A 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 Type 121A's sensor and electronics are separated by an eight foot cable, which allows the electronics to be mounted away from sources of heat.

The 121A can be used with MKS power supplies, display units, and pressure controllers, or the user's compatible power supply/readout devices.

Features & Benefits

- 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 gases compatible with Inconel and Stainless Steel



Dimensional Drawing —

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

Pressure
& Control
Measurement

WWW.MKSINST.COM



Specifications

Full Scale Range	1, 2, 10, 100, 1000, 5000, 10000, 15000, 20000, and 25000 Torr (mmHg)
Resolution	0.01% of F.S.
Accuracy	0.5% of Reading (\pm temperature coefficients)
Temperature Coefficients	
Zero	0.02% F.S./°C
Span	0.04% of Rdg.
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	\pm 15 VDC @ 35mA regulated to \pm 5%
Output	0 to 10 VDC into $>10k \Omega$
Electromagnetic Compatibility	Fully CE Compliant to EMC Directive 89/336/EEC when used with an overall metal braided shielded cable properly grounded at both ends
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

Ordering Code Example: 121AA-XXXXXZ	Code	Configuration	
Type121A	121AA	121AA	
Ranges - Torr (XXXXX)			
1	00001	00100	
2	00002		
10	00010		
100	00100		
1000	01000		
5000	05000		
10000	10000		
15000	15000		
20000	20000		
25000	25000		
Fitting (Z)			
1/2" OD tube	A		B
8 VCR female	B		
1.33" (33.8 mm) O.D. Conflat	C		
NW16-KF (ranges of 1000 Torr or less)	D		



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121A - 12/08
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 Baratron® is a registered trademark of MKS Instruments, Inc., Andover, MA. VCR® is a registered trademark of Swagelok Marketing Co., Solon OH. Inconel® is a registered trademark of Inco Alloys International, Inc., Huntington, WV. Conflat® is a registered trademark of Varian Associates, Lexington, MA.



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