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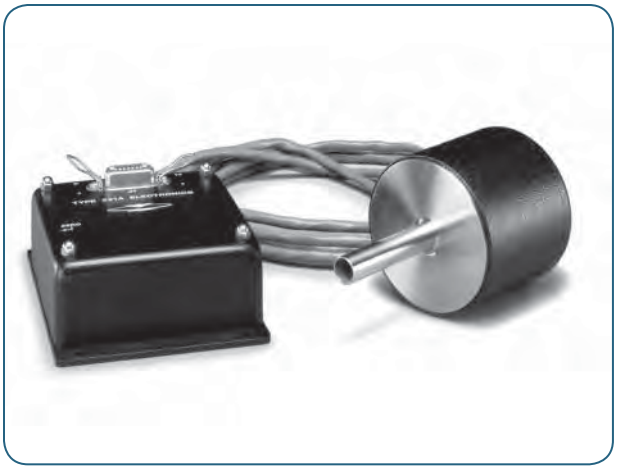
Expert team | Trust guarantee | 100% satisfaction

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Find the *MKS Instruments 121A* at our website: ***Click HERE***

Pressure & Control Measurement

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mks
Technology for Productivity

Baratron® Manometer

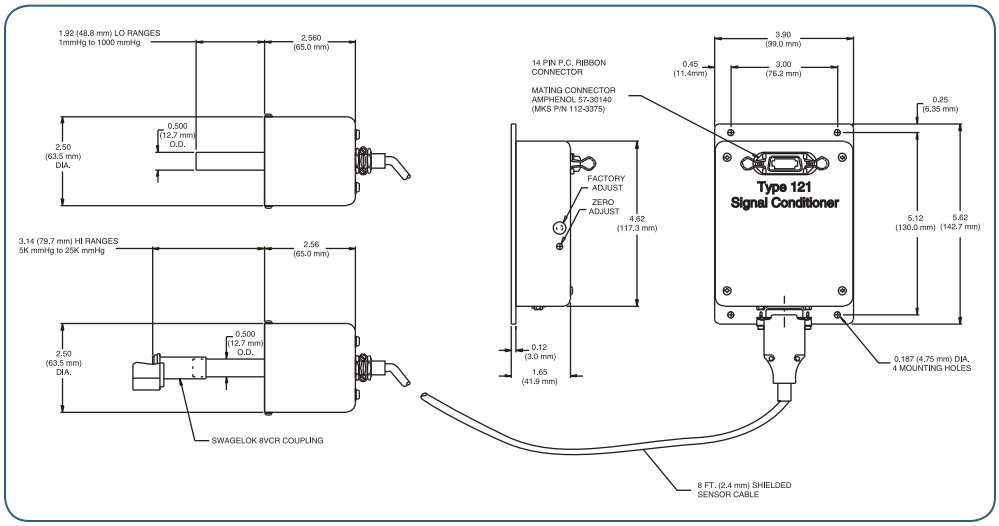
TYPE 121A - GENERAL PURPOSE ABSOLUTE

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).

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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 (± 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	±15 VDC @ 35mA regulated to ±5%
Output	0 to 10 VDC into >10k Ω
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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Specifications are subject to change without notice.

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