

1E / 1F Piezo Diaphragm Vacuum Sensor

RANGE: 1E 1 Torr to 1000 Torr
1F 1 Torr to 7600 Torr

- **PERFORMANCE** – Temperature compensated, piezo resistive pressure sensor provides excellent performance and long term stability
- **DESIGN** – Nickel plated brass or stainless steel body. Various connection types available. (1/8" NPT, KF, CF)
- **ECONOMY** – Solid state reliability. Low power. Much lower price than capacitance diaphragm gauges with a wider range.



DESCRIPTION

The Piezo Diaphragm Sensor measures absolute pressures by determining the deflection of a diaphragm and measuring the formation of a strain gauge attached to the diaphragm. The response of the sensor does not depend on the gas type. The 1E and 1F Piezo Diaphragm Sensor provides a wide range, fast response, and extremely stable measurement.

APPLICATIONS

- Cryogenics
- Heat Treat
- Coating Processes
- Pharmaceutical Products
- Electron Beam Welders
- Packaging
- Chemical
- Pick-up and Conveying

1E/1F Diaphragm Vacuum Sensor

SPECIFICATIONS

Supply Current: 1.5mA

PARAMETERS	MIN	TYP	MAX
Full Scale output (mV)	75	100	150
0 Pressure Output (mV)	2		
Non Linearity (+/-%span)	0.05	0.10	
Hysteresis (+/-%span)	0.01	0.05	
In / Out Resistance (Ohm)	2.5K	4.4K	6.0K
Temp Error-Span (%span)		0.3	0.5
Temp Error-Zero (+/-%span)		0.1	0.5
Temp Hysteresis Span (+/-%span)		0.1	
Temp Hysteresis Zero (+/-%span)		0.1	
Response Time (mS)		1.0	
Output load Resistance (Ohm)	50M		
Pressure Overload (rated)			3x
Operating temp(C)	0-100		
Acceleration	50g max		
Shock	1000g Peak for .05mS		
Vibration	20g Peak at 10-2000Hz		
Media	Non-Corrosive Gases		

INSTRUMENT SELECTION



MM200 w/ 1E or 1F Module

- 1E Module P/N 6-6200-220
- 1F Module P/N 2-6200-244

ORDERING INFORMATION

1E Piezo Diaphragm Sensor

P/N 2-2106-001	1/8" NPT, Brass
P/N 2-2107-030	NW16, Stainless Steel
P/N 2-2107-031	NW25, Stainless Steel
P/N 2-2107-032	NW40, Stainless Steel
P/N 2-2107-052	2 ¾ CF, Stainless Steel

1F Piezo Diaphragm Sensor

P/N 2-2108-001	1/8" NPT, Brass
P/N 2-2109-030	NW16, Stainless Steel
P/N 2-2109-031	NW25, Stainless Steel
P/N 2-2109-032	NW40, Stainless Steel
P/N 2-2109-052	2 ¾ CF, Stainless Steel

Additional fittings available – contact TELEVAC for more information

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