Model 276
Low Cost Barometric Pressure Transducer

The Model 276 barometric and absolute transducer is designed specifically for OEM applications and system integrators. The 276 brings value to the end customer through its small footprint and stable SETRACERAM™ ceramic sensor. These features enable the 276 to outperform the competition in the price sensitive OEM market. The 276 offers flexibility for designers with multiple electrical and mechanical options, helping reduce costs and deliver projects on time.

Flexible Design For OEM Applications
The Model 276 pressure transducer is ideal for OEMs and system integrators in the environmental pressure measurement market. The 276 offers multiple options to customize which allows designers to seamlessly integrate the 276 into new or existing hardware and software interfaces.

Improved Performance With Ceramic Sensor
The 276 utilizes a variable capacitance sensor that is made using ceramic material fused together with glass and gold to form the SETRACERAM™ pressure element. This stable material and design offers class leading thermal performance and low hysteresis, allowing it to be integrated into demanding installations. The ceramic sensor enables improved performance compared to other stainless steel sensors, enabling the 276 to give accurate measurements and better test results.

Model 276 Features:
• High Accuracy: ±0.25% FS
• Stable Ceramic Sensor
• Environmentally Rugged
• Compact Size: 2” dia. x 1” wide
• Excellent Long-Term Stability: 0.25% FS/6 mo.
• Fast Response Time

Applications
• Environmental Monitoring Systems
• Wind Measurement Systems
• Weather & Environmental Data Logging
• Cleanroom Barometric Pressure Compensation
• Automotive Emissions Test Equipment
Model 276
Low Cost Barometric Pressure Transducer

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Range</th>
<th>Units</th>
<th>Pressure Type</th>
<th>Fitting</th>
<th>Output</th>
<th>Termination</th>
<th>Accuracy</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>2761</td>
<td>600-1100 MBa</td>
<td>M</td>
<td>Absolute</td>
<td>1/8&quot; Push Tube Fitting</td>
<td>0.1 to 5.1 VDC</td>
<td>2 Cable</td>
<td>±0.25% FS</td>
<td>None</td>
</tr>
<tr>
<td>2762</td>
<td>800-1100 MBa</td>
<td>M</td>
<td>Absolute</td>
<td>1/8&quot; NPT External</td>
<td>2.0 to 10.1 VDC</td>
<td>T Cable</td>
<td>±0.1% FS</td>
<td>C T</td>
</tr>
<tr>
<td>2763</td>
<td>0-20 PSI</td>
<td>p</td>
<td>Absolute</td>
<td>1/8&quot; Tube Fitting</td>
<td>0.5 to 4.5 VDC</td>
<td>25 Cable</td>
<td>±0.25% FS</td>
<td>D</td>
</tr>
</tbody>
</table>

Example: Part No. 2761-600MA1B2202FNN = Model 276, 600 to 1100 mb/hPa, Absolute Pressure, 1/8" Push Tube Fitting, 0.1 to 5.1 VDC Output, 2 Cable Termination, ±0.25% FS Accuracy.

DIMENSIONS

PERFORMANCE DATA

- Accuracy RSS 1
- Non-Linearity (BSFL) ±0.22% FS
- Hysteresis ±0.05% FS
- Non-Repeatability ±0.05% FS
- Resolution Infinite, limited only by output noise level (0.005% FS)
- Compensated Range +30 to +130 (0 to +55)
- Temperature ±0.25% FS 1
- Zero/Span Shift %FS/°F

ENVIRONMENTAL DATA

- Operating Temperature limits of the electronics only. Pressure media temperatures may be considerably higher or lower.
- Thermal Effects
- Shock 50g Operating, 1/2 sine 10ms

ELECTRICAL DATA (VOLTAGE)

- Circuit 3-Wire (Exc, Out, Com)
- Power Consumption 0.2 Watts (24 VDC)
- Output Noise <200 microvolts RMS (0 Hz to 100 Hz)

PRESSURE MEDIA

- Non-condensing air or gas compatible with stainless steel, alumina ceramics, gold and elastomer.

PHYSICAL DESCRIPTION

- Case Stainless Steel
- Electrical Connection 2 ft. Multiconductor Cable
- Pressure Fitting 1/8" Tube Fitting

APPROVALS

- CE, RoHS

Type of Pressure | Pressure Range | Maximum Pressure |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Barometric</td>
<td>600 to 1100 MBa</td>
<td>20 PSIA</td>
</tr>
<tr>
<td>800 to 1100 MBa</td>
<td>20 PSIA</td>
<td></td>
</tr>
<tr>
<td>Absolute</td>
<td>0-20 PSIA</td>
<td>30 PSIA</td>
</tr>
</tbody>
</table>

1 RSS of Non-Linearity, Hysteresis, and Non-Repeatability. Higher accuracy units available on special order.
2 FS = 100mb for 800-1100 range; 50mb for 600-1100 mb/hPa range; and 20 PSI for 0 to 20 PSIA.
3 Units calibrated at a nominal 70°F. Maximum thermal error computed from this datum.
4 The separate leads for +EXC, -EXC, +Out, -Out are commoned internally. The shield is connected to the case. For best performance, either the -Exc or -Out should be connected to the case. Unit is calibrated at the factory with -Exc connected to the case. The insulation resistance between all signal leads are tied together and case ground is 100 ohms minimum at 25 VDC.
5 Zero and Full Scale Outputs are factory set to within ±0.25% Full Scale.