KM41, KM45 OEM Pressure Transducers

**FEATURES**
- Broad temperature capability
- All-welded stainless steel pressure construction
- Stainless steel housing
- High EMI/RFI rating
- Ranges vacuum through 20,000 psi
- IP67 Ingress rating (IP69K available)
- Wide selection of electrical and process connections available
- Customizable configurations

**APPLICATIONS**
- Off-Road equipment
- Construction machinery
- Compressor control
- Pump monitoring
- Agricultural/irrigation equipment
- Railroad/Transportation
- Engine monitoring
- Process automation & controls
- Hydraulic and pneumatic sensing

**SPECIFICATIONS**

**Accuracy:**
±0.5% of span, ±0.25% of span (OPT.) Terminal Point Including Zero & Span Offset) at reference temperature 21 °C (72 °F)
Total Error Band: Includes combined effects of temperature with Terminal Point, including zero & span offset errors
±1.5% of span: From -4 °F to 185 °F (-20 °C to 85 °C)
±2.0% of span: From -40 °F to -4 °F (-40 °C to -20 °C)
±2.0% of span: From 185 °F to 221 °F (85 °C to 105 °C)

**Stability:**
<±0.25% of span per year

**Durability:**
>10,000,000 cycles

**Humidity:**
0 to 100% R.H., no effect

**WETTED COMPONENTS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensor</th>
<th>Process Connection Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM41</td>
<td>17-4 PH® SS</td>
<td>304 SS</td>
</tr>
<tr>
<td>KM45</td>
<td>316L SS</td>
<td>316L SS</td>
</tr>
</tbody>
</table>

**MIN/MAX TEMPERATURE LIMITS**

<table>
<thead>
<tr>
<th>Compensated</th>
<th>Process</th>
<th>Operating</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 °F to 221 °F (-40 °C to 105 °C)</td>
<td>-40 °F to 257 °F (-40 °C to 125 °C)</td>
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</tr>
</tbody>
</table>

**DIMENSIONS**

For reference only, consult Ashcroft for specific dimensional drawings

**OUTPUT SIGNALS AVAILABLE**

<table>
<thead>
<tr>
<th>Voltage Output</th>
<th>Excitation</th>
<th>Supply Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5 Vdc, 3 wire</td>
<td>9-36 Vdc</td>
<td>5 mA</td>
</tr>
<tr>
<td>0-10 Vdc, 3 wire</td>
<td>14-36 Vdc</td>
<td>5 mA</td>
</tr>
<tr>
<td>1-5 Vdc, 3 wire</td>
<td>9-36 Vdc</td>
<td>4 mA</td>
</tr>
<tr>
<td>1-6 Vdc, 3 wire</td>
<td>9-36 Vdc</td>
<td>4 mA</td>
</tr>
<tr>
<td>0.5-4.5 Vdc 3 wire</td>
<td>9-36 Vdc</td>
<td>4 mA</td>
</tr>
</tbody>
</table>

**Ratiometric Output**

| 0.5-4.5 Vdc, 3 wire | ±0.5 Vdc | 3.5 mA |

**Current Output**

| 4-20 mA, 2 wire | 9-36 Vdc |

Response Time: < 1 msec

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