OEM-EP
Miniature electronic pressure controllers

FEATURES
· Silent operation
· Long life
· High accuracy
· Small size
· Low power consumption
· Internal closed loop control
· Includes thermally compensated proportional VSO® valve

MEDIA COMPATIBILITY
Non-corrosive gases

ELECTRICAL
Power 24 Vdc ± 10%
Input control signal 0...5 Vdc
Monitor output voltage 0...5 Vdc
Current requirement <150 mA
Electrical connector 6 pin miniature interface cable included

PHYSICAL PROPERTIES
Operating environment 0 to 55 °C
Storage temperature -40 to 55 °C
Porting 10-32 UNF female ports

VSO is a registered trademark of Parker Hannifin Corporation.

www.first-sensor.com
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PRESSURE RANGES CHARACTERISTICS

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Pressure range*</th>
<th>Maximum supply pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEM...0-2</td>
<td>0...2 psig</td>
<td></td>
</tr>
<tr>
<td>OEM...0-15</td>
<td>0...15 psig</td>
<td></td>
</tr>
<tr>
<td>OEM...0-50</td>
<td>0...50 psig</td>
<td></td>
</tr>
<tr>
<td>OEM...0-100</td>
<td>0...100 psig</td>
<td>150% of pressure transducer rating</td>
</tr>
</tbody>
</table>

* Custom ranges available (including 0...5, 0...7, 0...30, 0...70 psig)

PERFORMANCE CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure accuracy</td>
<td>±0.2</td>
<td>±1.5</td>
<td></td>
<td>%FS</td>
</tr>
<tr>
<td>Non-linearity</td>
<td></td>
<td>±1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response time*</td>
<td></td>
<td>15</td>
<td>ms</td>
<td></td>
</tr>
</tbody>
</table>

* Response time to target pressure is output volume dependent

CONFIGURATIONS

Pressure control: Standard configuration

Pressure control: Alternate configuration
PHYSICAL DIMENSIONS

mass: approx. 50 g

dimensions in inches (mm)
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Options</th>
<th>Series</th>
<th>Configuration</th>
<th>Valve orifice</th>
<th>Electrical input</th>
<th>Pneumatic range*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OEM</td>
<td>Standard pressure control</td>
<td>1: 0.01 &quot;</td>
<td>0-5: 0...5 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>0-2: 0...2 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alternate pressure control</td>
<td>3: 0.03 &quot;</td>
<td></td>
<td>0-15: 0...15 psi</td>
</tr>
</tbody>
</table>

Available listings:
- OEMEPS10-50-2
- OEMEPS10-50-15
- OEMEPS10-50-100
- OEMEPS30-50-2
- OEMEPS30-50-15
- OEMEPS30-50-50
- OEMEPS30-50-100
- OEMGCA30-50-15
- OEMGCA30-50-50
- OEMGCA30-50-100

* for custom pressure ranges contact First Sensor

Custom pressure ranges and configurations are available. Please contact First Sensor.

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