OEM Absolute pressure measuring cell
Type 513 barometric sensor

This pressure measuring cell, barometric adjusted with protection case is suitable for plug mounting on PCB. The output signal is linear, temperature compensated and amplified. The robust construction guarantees a long term stable measuring result.

Pressure range
0.8 ... 1.4 bar

- Integrated amplifier electronics
- No customer specific adjustment necessary
- Excellent EMC capacity by reinforcement on measuring cell
- Easy and quick fitting
- Plastic case for direct mounting
Technical overview

Order number 513.B1024

Pressure range
Absolute: 0.8 ... 1.4 bar

Operating conditions
Medium: Air and neutral gases

Temperature
Medium / ambient: -25 ... +85 °C
Storage without packaging: -40 ... +130 °C
Storage in packaging: -40 ... +65 °C

Temperature influences at range -30 ... +125 °C
TC-zero point 1) max. ±0.15% fs/10K
TC-full scale 1) max. ±0.15% fs/10K

Overload / rupture pressure: 3 x fs

Material in contact with the medium
Measuring cell: Ceramic Al2O3 (96%)
Case: PC (Polycarbonate)

Electrical overview
Output ratio: 10 ... 90%
Power supply: 5 VDC ±5%
Load: > 10 kOhm / < 100 nF
Current consumption: < 4 mA

Adjustment: Factory adjustment zero point and full scale

Electromagnetic compatibility
The product is designed exclusively for installation in equipment which complies with EU directives.
The customer is responsible for CE conformity.

Dynamic response
Response time: < 2 ms, typ. 1 ms
Load cycle: < 100 Hz

Electrical connections
Connector: RAST 1.27

Installation arrangement
Unrestricted

Weight: 7 g

Packaging (multi packaging)
In covering box 4 Blister 35 pcs each: 140 pcs

Accuracy

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>± 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance zero point with full scale adjustment</td>
<td>% fs</td>
<td>± 0.5</td>
</tr>
<tr>
<td>Tolerance full scale without full scale adjustment</td>
<td>% fs</td>
<td>± 0.5</td>
</tr>
<tr>
<td>Resolution</td>
<td>% fs</td>
<td>± 0.1</td>
</tr>
<tr>
<td>Total of linearity, hysteresis and repeatability</td>
<td>max. % fs</td>
<td>± 0.5</td>
</tr>
<tr>
<td>Long term stability acc. to DIN EN 60770</td>
<td>% fs</td>
<td>± 0.5</td>
</tr>
</tbody>
</table>

Dimensions in mm / Electrical connections

Drilling plan print:
Assembling material for socket

1) TC = Temperature coefficient
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