Compact OEM Pressure Transducers & Transmitters

HT-SMS Series

- High accuracy & reliability
- Ranges 4 bar to 4,000 bar
- 2/3 wire 4-20mA & voltage
- Wide choice of connectors
- Temperature -40°C + 125°C
- Compact and rugged design

A range of short body (typically 25mm long) pressure sensors for precise measurements in OEM (Original Equipment Manufacturer) applications. The HT-SMS series provide accurate operation in a compact and rugged design for installations with limited space. Options include a variety of popular standard connectors.
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TECHNICAL SPECIFICATIONS
Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range *(bar)</th>
<th>4</th>
<th>6</th>
<th>10</th>
<th>16</th>
<th>20</th>
<th>25</th>
<th>40</th>
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<tbody>
<tr>
<td>Overload pressure</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>40</td>
<td>40</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>15</td>
<td>30</td>
<td>30</td>
<td>60</td>
<td>60</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Measuring range *(bar)</td>
<td>60</td>
<td>100</td>
<td>160</td>
<td>200</td>
<td>250</td>
<td>400</td>
<td>600</td>
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<tr>
<td>Overload pressure</td>
<td>200</td>
<td>200</td>
<td>400</td>
<td>400</td>
<td>750</td>
<td>750</td>
<td>840</td>
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<tr>
<td>Burst pressure</td>
<td>300</td>
<td>300</td>
<td>600</td>
<td>600</td>
<td>1000</td>
<td>1000</td>
<td>1050</td>
</tr>
</tbody>
</table>

- Media temperature: -40°C to +125°C
- Compensated range: -20°C to +85°C
- Ambient temperature: -40°C to +105°C

Performance
- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/Best Fit Straight Line) < 0.5% FS range (< 0.35% BFSL) Optional < 0.25% FS range (< 0.15% BFSL)
- Temperature effects: Zero/Span typical thermal coefficients < 0.15% FS range/10°C
- Total Error Band: 2% FS from room temperature to -40°C or +105°C
- Long term stability: < 0.1% FS range/year
- Response time: < 1mS (from 10% to 90% FS range)
- Vibration resistance: 20g (according to IEC 68-2-6 and IEC 68-2-36)
- Shock resistance: 1000g (according to IEC 68-2-32)

Physical
- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: G 1/4 A, 1/4NPT, M12 x 1.5, M14 x 1.5, 7/16-20 UNF-2A, Other connections available on request
- Electrical connection: 1m integral cable, M12 x 1 male socket, 4 pin Deutsch connector, packard, superseal and junior-timer connectors, mini DIN plug socket (DIN EN 175301-803) Other connections available on request
- Weight: approximately 60g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

Options
(1) Improved accuracy < 0.25% FS
(2) additional cable (specify length)
For further options or customised products please contact us.

Related products
Hydrotechnik manufactures a wide range of sensors, test and measurement equipment. Contact us for further information or visit www.hydrotechnik.co.uk
Continuing development can necessitate specification changes without notice

Dimensions
HT-SMS with M12 connection

Electrical Connections
MVS/C DIN EN 175301-803
Deutsch Connector 4-pin

Mechanical Connections
G 1/4 A; DIN 3852; Form E

Ordering Information
1. Pressure range: e.g. 10 bar gauge
2. Electrical output: e.g. 2 wire 4-20 mA
3. Process connection: e.g. G 1/4 A
4. Electrical connection: e.g. 1 metre cable
5. Options required: e.g. improved accuracy

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