Miniature Pressure Transducers & Transmitters

HT-SME Series

- High accuracy & reliability
- Ranges 1 bar to 400 bar
- Voltage/ratiometric outputs
- Choice of cables/connectors
- Temperature -40°C + 125°C
- Compact and rugged design

A high reliability solution for confined spaces, this miniature (14/12mm diameter) and lightweight (20g typical) pressure sensor is available with low or high pressure ranges and media temperatures up to 125°C. The silicon sensing technology is a perfect choice for accurate measurements in a very small package.
**Miniature Pressure Transducers & Transmitters**

**HT-SME Series**

## TECHNICAL SPECIFICATIONS

### Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range <em>(bar)</em></th>
<th>1</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
<th>6</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overload pressure</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Burst pressure</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>15</td>
<td>30</td>
<td>30</td>
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<tr>
<td>Measuring range <em>(bar)</em></td>
<td>16</td>
<td>20</td>
<td>25</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>160</td>
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<tr>
<td>Overload pressure</td>
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<td>40</td>
<td>100</td>
<td>100</td>
<td>200</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>60</td>
<td>60</td>
<td>150</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td>Measuring range <em>(bar)</em></td>
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<td>250</td>
<td>400</td>
<td></td>
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<tr>
<td>Overload pressure</td>
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<td>750</td>
<td>750</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Burst pressure</td>
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<td>1000</td>
<td>1000</td>
<td></td>
<td></td>
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</tbody>
</table>

* Gauge ranges shown - vacuum and absolute ranges available on request

### Electrical

- 3 wire ratiometric
- Output signal: 0-5Vdc, 0.5-4.5Vdc
- Supply voltage: 8-32Vdc, 5 ± 10%

### Performance

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

### Physical

- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: M8 x 1, M10 x 1
  Other connections available on request
- Electrical connection: 1m integral cable, M5 x 0.5 male socket
  Other connectors available on request
- Weight: approximately 20g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

### Options

1. Improved accuracy <0.25% FS (<0.15% BFSL)
2. Additional cable (per metre/ 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

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### Dimensions

**SME M8x1 with PHR-3 Connection**

- Connector: PHR-3
- Cable output: Steel Male socket

**Physical Connections**

- M8 x 1, M10 x 1

**Electrical Connections**

- Male socket: M5 x 0.5 (S707)

**Mechanical Connections**

- Dimensions: M8x1, M10x1

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## HT-SME Series

### ORDER CODES

<table>
<thead>
<tr>
<th>Series</th>
<th>Output Signal</th>
<th>Pressure Range</th>
<th>Unit</th>
<th>Pressure Type</th>
<th>Process Connection</th>
<th>HEX</th>
<th>Electrical Connection</th>
<th>Extras</th>
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</thead>
<tbody>
<tr>
<td>HT-SME</td>
<td>20.4</td>
<td>040000</td>
<td>BAR</td>
<td>(sr)</td>
<td>M08M</td>
<td>I 1</td>
<td>FL1</td>
<td>R06</td>
</tr>
</tbody>
</table>

**Pressure Type**
- kPa
- MPa
- PSI
- kg/cm²
- m WC
- in WC
- mbar
- mbar

**Connection**
- Male Socket M 5 / S707
- Cable with Shrink Hose 1.0 KSM
- Flying Leads 1.0* FL1
- Others FFF

**Extras**
- Male Socket M 5 / S707 M05
- Cable with Shrink Hose 1.0 KSM
- Flying Leads 1.0* FL1
- Others FFF

**Relative Pressure**
- g

**Sealed Reference**
- (sr)

### Electrical Specifications

- 4...20 mA / 2 wires
- 0...10 V
- 0...5 V
- 0...16 V
- 0...20 V
- 0...25 V
- 0...40 V

**Others**
- A

**Others**
- Others CCC

**Restrictor**
- 0.6 mm RO6

**Cleaned for Oxygen Use**
- O2C

**Others (see below)**
- GGG