Industrial Pressure Transducers & Transmitters

HT-SML Series

- High accuracy & reliability
- Ranges Vacuum to 1,000 bar
- 2 or 3 wire mA & voltage outputs
- Wide choice of connectors
- Temperature -40°C + 125°C
- Compact and rugged design

The HT-SML series combines advanced silicon sensing technology with compact and rugged stainless steel packaging to deliver high performance and reliable pressure measurements, even in harsh operating conditions. The modular configuration enables a wide choice of pressure and electrical connections.

Discover more at www.hydrotechnik.co.uk
Industrial Pressure Transducers & Transmitters

HT-SML Series

TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range* (bar)</th>
<th>1</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
<th>6</th>
<th>10</th>
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</thead>
<tbody>
<tr>
<td>Overload pressure</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>20</td>
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<tr>
<td>Burst pressure</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>15</td>
<td>15</td>
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<td>30</td>
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<tr>
<td>Measuring range (bar)</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>200</td>
<td>200</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Burst pressure</td>
<td>60</td>
<td>60</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>Measuring range (bar)</td>
<td>200</td>
<td>250</td>
<td>400</td>
<td>600</td>
<td>1000</td>
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<td></td>
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<tr>
<td>Overload pressure</td>
<td>400</td>
<td>750</td>
<td>750</td>
<td>840</td>
<td>1200</td>
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<tr>
<td>Burst pressure</td>
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<td>1000</td>
<td>1000</td>
<td>1050</td>
<td>1500</td>
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</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 (<0.25% 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: Max 2% FS from room temperature to -40°C or +105°C
- Long term stability: <0.1% FS range/year
- Response time: <1 ms (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 to 68-2-32)

Physical

- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: G 1/4 A, G1/4B, G1/2B, 1/4NPT
- Electrical connection: integral cable (1 metre), M12 x 1 male socket, DIN plug/socket, mini DIN plug socket (DIN EN 175301-803)
- Weight: approximately 80-120g (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 (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

Discover more at www.hydrotechnik.co.uk
### HT-SML Series

#### ORDER CODES

<table>
<thead>
<tr>
<th>Series</th>
<th>Output Signal</th>
<th>Pressure Range</th>
<th>Unit</th>
<th>Process Type</th>
<th>Pressure</th>
<th>Process Connection</th>
<th>Hex</th>
<th>Electrical Connection</th>
<th>Extras</th>
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<td>HT-SML</td>
<td>10.0</td>
<td>001000</td>
<td>BAR</td>
<td>(g)</td>
<td>G14E</td>
<td>22</td>
<td>MVC</td>
<td>R06</td>
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</tbody>
</table>

### Parameters:
- **Output Signal**: 4...20 mA / 2 wires, 0...20 mA / 3 wires, 0...10 V, 1...5 V, 0...4.5 V rasion, 0.5...4.5 V rasion, Others
- **Pressure Range**: bar, kPa, MPa, PSI, kgf/cm², m WC, in WC, Others
- **Unit**: Absolute Pressure, Relative Pressure, Sealed Pressure
- **Pressure Type**: Absolute, Relative, Sealed
- **Process Type**: Electrical Connection
- **Process Connection**: Restrictor 0.6 mm, Restrictors others, Total Error 0.25%, Total Error others, Cleaned for Oxygen Use, Metal Cone, Schrader Opener 2.9, Others (see below)

### Options:
- **Electrical Connection**: MVC/A, MVC/C, Hirschmann Mini, LEMO EW8 1S, IS9 Industrial Socket, Packard, Male Socket M 5 / 5707, Male Socket M 12 / 5763, Male Socket M 16 / 5723, Male Socket M 18 / 5714, Junior Timer, Bajonet DIN 72585, Bajonet VG 95234, Super Seal, Deutsch 3-poles, Deutsch 4-poles, QUICK ON, Flying Leads 1.0*, Cable Gland Plastic, Cable Steel 1.0*, Cable Plastic 1.0*, Others (see below)

### Notes:
- * e.g. with cable length 1 metre
- **Others**: others

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