Industrial High Pressure Transducers & Transmitters

HT-SMH Series

- High accuracy & reliability
- Ranges >1000 bar to 5000 bar
- 2/3 wire 4-20mA & voltage
- Wide choice of connectors
- Temperature -40°C + 125°C
- Compact and rugged design

The HT-SMH series provides a high pressure version of the popular HT-SML Pressure Transducers and Transmitters for general industrial applications, featuring all stainless steel wetted materials. The thin film silicon stainless steel diaphragm provides a perfect solution for demanding hydraulic measurements.

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

HT-SMH Series

TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range* (bar)</th>
<th>1600</th>
<th>2000</th>
<th>3000</th>
<th>4000</th>
<th>5000</th>
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</thead>
<tbody>
<tr>
<td>Overload pressure</td>
<td>2400</td>
<td>2400</td>
<td>3600</td>
<td>4800</td>
<td>6000</td>
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<tr>
<td>Burst pressure</td>
<td>3000</td>
<td>3000</td>
<td>4500</td>
<td>6000</td>
<td>7000</td>
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</tbody>
</table>

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

Performance

- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BS Best Fit Straight Line)
  - <0.5% FS range (<0.25% BFSL)
  - Optional: <0.25% FS (<0.15% BFSL)
- Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range/10°C
- Total Error Band: Maximum 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 68-2-32)

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

Electrical connections

<table>
<thead>
<tr>
<th>2 wire / 3 wire</th>
<th>3 wire</th>
<th>3 wire</th>
<th>ratiometric</th>
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</thead>
<tbody>
<tr>
<td>Output signal</td>
<td>4-20mA</td>
<td>0-10Vdc</td>
<td>1-5Vdc</td>
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<tr>
<td>Supply voltage</td>
<td>9-32Vdc</td>
<td>12-32Vdc</td>
<td>8-32Vdc</td>
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</tbody>
</table>

- Weight: approximately 120g - 150g (dependent upon configuration)

Mechanical connections

- M18 x 1.5
- M16 x 1.5 female
- 9/16-18 UNF-2A /IK 60°

Dimensions

HT-SMH with MVS / Form A DIN EN 17503-803

Electrical connections

- Male socket M12 x 1 (5763)
- Moulded flying lead

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## HT-SMH Series

### ORDER CODES

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<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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<tr>
<td>HT-SMH</td>
<td>20.0</td>
<td>200000</td>
<td>BAR</td>
<td>(sr)</td>
<td>M18M</td>
<td>22</td>
<td>M12</td>
<td>SCO</td>
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<td>0...6 V</td>
<td>20.2</td>
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<td>0...5 V</td>
<td>20.4</td>
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<tr>
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<tr>
<td>0.5...4.5 V not ratio</td>
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<tr>
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<td>60.0</td>
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<td>Others</td>
<td>AA</td>
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</table>

**Units**

- bar
- kPa
- MPa
- PSI
- kg/cm2

**Pressure Types**

- Absolute Pressure (a)
- Relative Pressure (r)
- Sealed Reference (sr)

**Electrical Connection**

- 4...20 mA / 2 wires 10.0
- 0...20 mA / 3 wires 10.1
- 4...20 mA / 3 wires 10.2
- 0...10 V 20.0
- 1...5 V 20.1
- 0...6 V 20.2
- 0...5 V 20.4
- 0.5...4.5 V ratio 37.0
- 0.5...4.5 V not ratio 40.0
- CANopen 2.0A 60.0
- Others AA

**Process Connections**

- M16 x 1.5 female M16F 22
- M18 x 1.5 male M18M 22
- 9/16 - 18 UNF-2B U98F 22
- Others DDD EE

**Extras**

- MVC/A
- MVC/C
- Hirschmann Mix
- LEMO EW 1S
- IS9 Industrial Socket
- PA1
- Male Socket M12 / S763 M12
- Male Socket M16 / S723 M16
- Male Socket M18 / S714 M18
- Junior Timer JTI
- Bajonet DIN 72585 BJD
- 2 RMD Rund RMB
- Super Seal SUS
- Deutsch 3-poles D03
- Deutsch 4-poles D04
- QUICK ON QON
- Flying Leads 1.0* FL1
- Cable Gland Plastic CP1
- Cable Steel 1.0* KS1
- Cable Plastic 1.0* KP1
- Others FFF

**Notes**

- * e.g. with cable length 1 metre

**Error Information**

- Total Error 0.5% F50
- Total Error other FXX
- Cleaned for Oxygen Use O2C
- Metal Cone SCO
- Schrader Opener 2.9 S29
- Others (see below) SCO

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