Flush Diaphragm Pressure Transducers & Transmitters

HT-SMF Series

- High accuracy & reliability
- Ranges 0.6 bar to 200 barg
- 4-20mA, voltage & CAN outputs
- Temperature -30°C to 100°C
- Wide choice of connectors
- Perfect for difficult to measure media

Open face pressure sensors for food, process or industrial applications with liquid/slurry pressure media that contains particulates or solids. Conventional sensors have a small diameter inlet port with internal diaphragm cavity, the HT-SMF offers a flush diaphragm to prevent media blocking/clogging.

Discover more at [www.hydrotechnik.co.uk](http://www.hydrotechnik.co.uk)
 flush mount/open face 
pressure transducers & transmitters

ht-smf series

**technical specifications**

standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>measuring range (barg)</th>
<th>0.6</th>
<th>1</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
<th>6</th>
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<tbody>
<tr>
<td>overload pressure</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>7</td>
<td>15</td>
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<tr>
<td>overload pressure</td>
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<td>30</td>
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<td>100</td>
<td>160</td>
<td>200</td>
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<tr>
<td>overload pressure</td>
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<td>200</td>
<td>300</td>
<td>300</td>
<td></td>
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</tr>
</tbody>
</table>

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

- media temperature range: -30°C to +100°C
- compensated temperature range: -20°C to +85°C
- ambient temperature range: -30°C to +100°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 (<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 -30°C or +100°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: G1/2" or G1" (DIN 3852; Form E)
- other connections available on request
- electrical connection: integral cable (1 metre), M12 x 1 male socket, DIN plug/socket, mini DIN plug socket (DIN EN 175301-803)
- other connections available on request
- 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 (per metre - specify length)
3. IP69K ingress protection rated version

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-SMF with MVS DIN EN175301-803

**mechanical connections**

G 1/2"; DIN 3852; Form E

**electrical connections**

MVS/A DIN EN 175301-803

MVS/C DIN EN 175301-803

**discover more at** www.hydrotechnik.co.uk
## HT-SMF 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-SMF</td>
<td>60.0</td>
<td>0000400</td>
<td>BAR</td>
<td>(a)</td>
<td>G2AF</td>
<td>22</td>
<td>M12</td>
<td>-</td>
</tr>
</tbody>
</table>

- **Input**
  - 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
  - 10 V: 20.1
  - 0...6 V: 20.2
  - 0...5 V: 20.4
  - 0...4.5 V ratio: 37.0
  - 0...4.5 V not ratio: 40.0
  - CANopen 2.0A: 60.0

- **Pressure Type**
  - bar: BAR
  - kPa: KPA
  - MPa: MPA
  - PSI: PSI
  - kg/cm²: KGC
  - in WC: MWS
  - in WC: MWS
  - others: CCC

- **Electrical Connection**
  - MVC/A
  - MVC/C
  - Hirschmann Mini
  - LEMO EWB 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

- **Extras**
  - *e.g. with cable length 1 metre*
  - Total Error 0.25%
  - Total Error
  - Cleaned for Oxygen Use
  - Others (see below)

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