Intrinsically Safe \(\text{Ex}\) Pressure Transducers & Transmitters

HT-SMX2 Series

- High accuracy & reliability
- Ranges 10mbar to 2,000 barg
- 2 wire 4-20mA output
- Field test/adjustment 4:1 rangeability
- Zone 1 media -40°C to +100°C
- Compact and rugged design

The HT-SMX2 is a compact and rugged industrial pressure transmitter ATEX approved for use in Zone 0 and Zone 1 hazardous area applications. The piezo-resistive sensing technology makes this sensor an ideal choice for Intrinsically Safe compliance and long term reliable measurements.

Discover more at www.hydrotechnik.co.uk
Intrinsically Safe  
Pressure Transducers & Transmitters  
HT-SMX2 Series 

**TECHNICAL SPECIFICATIONS** 

**Standard pressure ranges & signal outputs**

<table>
<thead>
<tr>
<th>Measuring range (mbar)</th>
<th>10</th>
<th>16</th>
<th>20</th>
<th>25</th>
<th>40</th>
<th>60</th>
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<td>1050</td>
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**Electrical**

- **Output signal**: 4-20 mA
- **Supply voltage**: 20-27 Vdc

**Physical**

- **Material**: body - stainless steel, inlet port stainless steel (+silicon for ranges <40 bar)
- **Process connection**: G 1/4 A, G1/4B, G1/2B, 1/4 NPT
- **Electrical connection**: integral cable, M12 x 1 male socket, DIN plug/socket, mini DIN plug socket (DIN EN 175301-803)
- **Optional field housing with 4:1 rangeability & local test/adjustment facility. Not available for ranges <1 bar**
- **Ingress protection**: IP65 (for connector versions with their mating plug fitted)

**Options**

1. Field housing option
2. Accuracy <0.25% FS (0.5% FS <1 bar)
3. Additional cable (specify length)

For 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.
# HT-SMX2 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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<tbody>
<tr>
<td>HT-SMX2</td>
<td>4...20 mA / 2 wires</td>
<td>10.0</td>
<td>020000</td>
<td>BAR (sr)</td>
<td>U72C</td>
<td>22</td>
<td>D03</td>
<td>Z00</td>
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### Pressure Units
- Bar (BAR)
- kPa (kPa)
- MPa (MPa)
- PSI (PSI)
- kg/cm² (KGC)
- m WC (MWS)
- in WC (IWS)

### Pressure Ranges
- -1 ... 0 9000100 0 ... 10 0001000
- -1 ... +1 9000900 0 ... 16 0001600
- 0 ... 0.060 0000060 0 ... 25 0002500
- 0 ... 0.100 0000010 0 ... 40 0004000
- 0 ... 0.160 0000016 0 ... 60 0006000
- 0 ... 0.200 00002000 0 ... 100 0010000
- 0 ... 0.250 00000250 0 ... 100 0010000
- 0 ... 0.600 00000600 0 ... 200 0020000
- 0 ... 2.0 00002000 0 ... 200 0020000
- 0 ... 2.5 00000250 0 ... 1000 00100000
- 0 ... 4 00000400 0 ... 1600 00160000
- 0 ... 6 00000600 0 ... 2000 00200000
- -0.060 ... 0 9000006
- -0.100 ... 0 9000010
- -0.200 ... 0 9000020
- -0.250 ... 0 9000015
- -0.400 ... 0 9000040
- -0.600 ... 0 90000600

### Electrical Connection Extras
- MVC/A
- MVC/C
- Packard
- Male Socket M 12 / S763
- Junior Timer
- Bajonet DIN 72585
- Super Seal
- Deutsch 3-poles
- Deutsch 4-poles
- Cable Gland Plastic
- Cable Steel 1.0*
- Cable Plastic 1.0*
- Others

### Process Connection
- HT-SMX2 Series
- 1/8 NPT
- 1/4 NPT
- 7/16-20 UNF-2A
- 7/16-20 UNF-2A/2C
- 3/8-24 UNF-2A
- 3/8-24 UNF-2A/2C
- 1/2-20 UNF-2A
- M 8x1 Shape A
- M 10x1 Shape A
- M 12x1 Shape A
- M 12x1 Konikal
- M 14x1.5 CT-Ring
- M 14x1.5 Shape A
- M 14x1.5 Shape E
- M 14x1.5 ISO
- M 16x1.5 Shape A
- M 16x1.5 female
- M 18x1.5 male
- M 20x1.5 Manom.
- R 1/4 Manom.
- Others

### Others
- Absolute Pressure
- Relative Pressure
- Sealed Reference

### Notes
- *e.g. with cable length 1 metre
- Others (see below)

### Other Units
- bar
- kPa
- MPa
- PSI
- kg/cm²
- m WC
- in WC

### Others
- Cable Gland Plastic
- Cable Steel
- Cable Plastic

### Others (see below)
- Others

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**HT-SMX2 Series**

**ORDER CODES**

1 Central Park, Lenton Lane, Nottingham, NG7 2NR

**Hydrotechnik**

UK LIMITED

www.hydrotechnik.co.uk