Compact Pressure Transducers & Transmitters

HT-SIS Series

- Ranges from 0.6 to 40 bar
- High accuracy and reliability
- 2/3 wire 4-20mA & voltage
- Wide choice of connectors
- Temperature -40°C + 105°C
- Compact and rugged design

Short body (typically 18mm long) compact pressure transducers and transmitters for very low profile and confined space installations. The HT-SIS offers a diverse range of electrical connections and a highly rugged design for long term reliable measurements in many hydraulic and pneumatic industrial systems.

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

HT-SIS Series

TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range* (bar)</th>
<th>0.6</th>
<th>1</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
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<tbody>
<tr>
<td>Overload pressure</td>
<td>6</td>
<td>6</td>
<td>6</td>
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<td>Burst pressure</td>
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<td>9</td>
<td>15</td>
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<tr>
<td>Measuring range (bar)</td>
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<td>20</td>
<td>25</td>
<td>40</td>
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<tr>
<td>Overload pressure</td>
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<td>20</td>
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<td>100</td>
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<tr>
<td>Burst pressure</td>
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<td>30</td>
<td>60</td>
<td>60</td>
<td>150</td>
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Electrical 2 wire / 3 wire 3 wire 3 wire ratiometric

Output signal 4-20mA 0-10Vdc 1-5Vdc 0.5-4.5Vdc

Supply voltage 9-32Vdc 12-32Vdc 8-32Vdc 5Vdc ± 10%

- Media temperature -40°C to +105°C
- Compensated range -10°C to +70°C
- Ambient temperature -40°C to +85°C

Performance

- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/ Best Fit Straight Line) <1% FS range (<0.5% BSFL)
- Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range / 10°C
- Total Error Band: 3% FS from room temperature to -40°C, 2% FS from room temperature to 85°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 to 68-2-32)

Physical

- Material: body/wetted parts - stainless steel, silicon, brass & plastic
- Process connection: G 1/4 A, 1/4NPT, M12 x 1.5, M14 x 1.5, 7/16-20UNF-2A
- Other connections available on request
- Electrical connection: DIN plug/socket, mini DIN plug socket (DIN EN 175301-803) M12 x 1 male socket, 3/4 pin Deutsch-connector, round connector DIN 72585, packard, superseal, junior-timer connectors and 1 metre integral cable
- Other connections available on request
- Weight: approximately 80-120g (dependent upon configuration)
- Ingress protection: IP67 (for connector versions with their mating plug fitted)

Options

(1) Improved accuracy <0.5% FS (<0.25% BSFL)
(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
## HT-SIS 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-SIS</td>
<td>37.0</td>
<td>0000060</td>
<td>BAR</td>
<td>(g)</td>
<td>14NP</td>
<td>22</td>
<td>M12</td>
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### Pressure Values
- **Absolute Pressure**
  - kPa
  - bars
  - MPa
  - PSI
  - kg/cm²
  - m WC
  - in WC

### Electrical Connections
- 4...20 mA / 2 wires
- 0...20 mA / 3 wires
- 4...20 mA / 3 wires
- 0...10 V
- 1 ½ V
- 0..4...5 V ratio
- 0..4...5 V not ratio
- CANopen 2.0A
- Others

### Process Connections
- Process Connection Options
- HEX Options
- Electrical Connection Options

### Extras
- MVC/A
- MVA
- Hirschmann Mon HBM
- I59 Industrial Socket I59
- Packard PA1
- Junior Timer JTI
- Super Seal SUS
- Deutsch 3-poles D03
- Deutsch 4-poles D04
- QUICK ON QON
- Flying Leads 1.0* FL1
- Cable Gland Plastic CP1
- Cable Plastic 1.0* KP1
- Others FFF

### Other Components
- Absolute Pressure (a)
- Relative Pressure (g)
- Sealed Reference (sr)

### Order Codes
- G 1/8 A Shape A G18A 22
- G 1/8 A Shape E G18E 22
- G 1/4 A Shape A G14A 22
- G 1/4 A Shape E G14E 22
- G 1/4 B Manom. G14B 22
- G 1/2 B Manom. G12B 27
- G 1/2 A Shape E G12E 27
- 1/8 NPT 18NP 22
- 1/4 NPT 14NP 22
- 7/16-20 UNF-2A U72M 22
- 7/16-20 UNF-2A/C U72C 22
- 7/16-20 UNF-2B U72F 22
- 3/8-24 UNF-2A U38M 22
- 3/8-24 UNF-2A/C U38C 22
- 1/2-20 UNF-2A U12M 22
- M 10x1 Shape A M10A 22
- M 1/4x1 Shape E M14E 22
- M 1/4x1 Shape ISO M14O 22
- M 1/4x1 Shape A M16A 22
- M 1/4x1 Shape female M16F 22
- M 1/4x1 Shape male M18M 22
- M 20x1.5 Manom. M20B 22
- R 1/4 male R14M 22
- Others DDDD EE

### Notes
- * e.g. with cable length 1 metre
- Absolute Pressure (a)
- Relative Pressure (g)
- Sealed Reference (sr)