Industrial Pressure Transducers & Transmitters

HT-DS5 Series

- High accuracy and reliability
- Ranges from 0.6 to 2000 bar
- NPN / PNP outputs
- Wide choice of connectors
- Temperature -40°C + 125°C
- Compact and rugged design

A highly compact electronic pressure switch for general industrial and automotive applications with ranges available from 0.6 bar to 2000 barg (NPN or PNP outputs). The inherently linear, low hysteresis and high repeatability characteristic of the silicon sensor ensures a solid solution even for high frequency switching.
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>
<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>6</td>
<td>6</td>
<td>10</td>
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<tr>
<td>Burst pressure</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>6</td>
<td>15</td>
<td>30</td>
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<td>Measuring range (bar)</td>
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<td>25</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>160</td>
<td>200</td>
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<tr>
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<td>40</td>
<td>100</td>
<td>100</td>
<td>200</td>
<td>200</td>
<td>400</td>
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<tr>
<td>Burst pressure</td>
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<td>60</td>
<td>150</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Measuring range (bar)</td>
<td>250</td>
<td>400</td>
<td>600</td>
<td>1000</td>
<td>1600</td>
<td>2000</td>
<td>2000</td>
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<tr>
<td>Overload pressure</td>
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<td>750</td>
<td>840</td>
<td>1200</td>
<td>2400</td>
<td>2400</td>
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</tr>
<tr>
<td>Burst pressure</td>
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<td>1000</td>
<td>1050</td>
<td>1500</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
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</table>

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

• 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 BSFL/Best Fit Straight Line) <0.5% FS range (<0.25% BFSL)
• Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range/10°C
• Total Error Band: 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)

Physical

• Material: body - stainless steel, pressure inlet port - stainless steel
• Process connection: G 1/4 A, 1/4NPT, M12 x 1.5, M14 x 1.5, 7/16-20UNF-2A, 9/16-18UNF-2A. Other connections available on request
• Electrical connection: 1 metre integral cable, M12 x 1 male socket, 3/4 pin Deutsch connector, round-connector DIN 72585, packard, superseal and junior-timer connectors Other connections available on request
• Weight: approximately 100g (dependent upon configuration)
• Ingress protection: IP65 (for connector versions with their mating plug fitted)

Options

(1) 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-DS5 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>Electr. Connection</th>
<th>Extras</th>
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<tr>
<td>D5</td>
<td>52.0</td>
<td>0020000</td>
<td>PSI</td>
<td>(g)</td>
<td>U72M</td>
<td>22</td>
<td>M16</td>
<td>02C</td>
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### Switches
- Switch pnp / NO: 52.0
- Switch npn / NC: 53.0
- Switch npn / NO: 54.0
- Switch npn / NC: 55.0
- Others: AAA

### Absolute Pressure (a)

<table>
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<th>Code</th>
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<tr>
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<td>AAA</td>
</tr>
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<tr>
<td>1</td>
<td>C</td>
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<tr>
<td>2</td>
<td>D</td>
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### Relative Pressure (g)

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<tr>
<td>1</td>
<td>C</td>
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<tr>
<td>2</td>
<td>D</td>
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</table>

### Sealed Reference (sr)

<table>
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<td>B</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
</tr>
</tbody>
</table>

### Geometric Values
- Process Connection: 0020000
- Unit: PSI

### Extras
- MVC/A
- MVC/C
- Hirschmann Mini
- LEMO EWB 1S
- IS9 Industrial Socket
- Packard
- Male Socket M5/S707
- Male Socket M12/S763
- Male Socket M16/S723
- Male Socket M18/S714
- 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 1.0"
- Cable Steel 1.0"
- Cable Plastic 1.0"
- Others

### Accessories
- Restrictor 0.6 mm
- Restrictors others
- Total Error other
- Cleaned for Oxygen Use
- Metal Cone
- Schrader Opener 2.9
- Others (see below)