High Temperature Pressure Transducers & Transmitters

HT-SKE Series

- High accuracy & reliability
- Ranges 1 bar to 2,000 bar
- 2/3 wire 4-20mA & voltage
- Wide choice of connectors
- Temperature 180°C/200°C
- Compact and rugged design

For applications with high media temperatures up to 180°C or even 200°C, the HT-SKE pressure sensor features a dry silicon technology pressure sensor and remote electronics package with Teflon interconnecting cable. This configuration enables direct contact with pressure media and precise measurements, even at extreme levels of thermal loading.

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

HT-SKE Series

TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

<table>
<thead>
<tr>
<th>Measuring range *(bar)</th>
<th>1</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
<th>6</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overload pressure</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Burst pressure</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>15</td>
<td>30</td>
<td>30</td>
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<tr>
<td>Measuring range (bar)</td>
<td>16</td>
<td>20</td>
<td>25</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>160</td>
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<tr>
<td>Overload pressure</td>
<td>40</td>
<td>40</td>
<td>100</td>
<td>100</td>
<td>200</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>60</td>
<td>60</td>
<td>150</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td>Measuring range (bar)</td>
<td>200</td>
<td>250</td>
<td>400</td>
<td>600</td>
<td>1000</td>
<td>1600</td>
<td>2000</td>
</tr>
<tr>
<td>Overload pressure</td>
<td>400</td>
<td>750</td>
<td>750</td>
<td>840</td>
<td>1200</td>
<td>2400</td>
<td>2500</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>600</td>
<td>1000</td>
<td>1000</td>
<td>1050</td>
<td>1500</td>
<td>3000</td>
<td>3000</td>
</tr>
</tbody>
</table>

Electrical

- 2 wire / 3 wire
- 3 wire
- ratiometric

Output signal

- 2 wire / 3 wire
- 3 wire
- ratiometric

Supply voltage

- 2 wire / 3 wire
- 3 wire
- ratiometric

- Media temperature range: -40°C to +180°C
  Optional 200°C maximum
- 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): <1% FS range (<0.5% 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 to 68-2-32)

Physical

- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: G1/4A, G1/4B, G1/2B, 1/4 NPT
- Other connections available on request
- Electrical connection: Integral PTFE cable with remote temperature compensation/electronics package and male socket e.g. M12 x 1 connector
- Other connections available on request
- Weight: approximately 120g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

Options

1) higher media temperature <200°C max
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-SKE Series

## ORDER CODES

<table>
<thead>
<tr>
<th>Series</th>
<th>Output Signal</th>
<th>Pressure Range</th>
<th>Unit</th>
<th>Process Type</th>
<th>HEX</th>
<th>Electrical Connection</th>
<th>Extras</th>
</tr>
</thead>
<tbody>
<tr>
<td>HT-SKE</td>
<td>20.4</td>
<td>0010000</td>
<td>KGC</td>
<td>(sr)</td>
<td>G14B</td>
<td>M18</td>
<td>R06</td>
</tr>
</tbody>
</table>

### Relative Pressure
- 0 ... 10: 0010000
- 0 ... 20: 0020000
- 0 ... 50: 0050000
- 0 ... 100: 0100000
- 0 ... 160: 0160000
- 0 ... 200: 0200000
- 0 ... 250: 0250000
- 0 ... 400: 0400000
- 0 ... 600: 0600000
- 0 ... 1000: 0100000
- 0 ... 1600: 0160000
- 0 ... 2000: 0200000
- Others: BBB

### Sealed Reference
- 0 ... 10: 0010000
- 0 ... 20: 0020000
- 0 ... 50: 0050000
- 0 ... 100: 0100000
- 0 ... 160: 0160000
- 0 ... 200: 0200000
- 0 ... 250: 0250000
- 0 ... 400: 0400000
- 0 ... 600: 0600000
- 0 ... 1000: 0100000
- 0 ... 1600: 0160000
- 0 ... 2000: 0200000
- Others: BBB

### Electrical Connection Extras
- MVA
- MVC
- HBM
- LMS
- IS9
- PA1
- M10
- M12
- M16
- M18
- JTI
- BJD
- BV
- SIS
- D03
- D04
- QON
- FL1
- CP1
- KS1
- KPI
- FFF
- RO6
- RXX
- FXX
- 02C
- SC0
- S29
- GG

### Process Connection Extras
- G1/8 A Shape A
- G1/4 A Shape A
- G1/4 A Shape E
- G1/4 B (Manom.)
- G1/2 B (Manom.)
- G1/4 A Shape E
- G1/2 A Shape E
- G1/2 B (Manom.)
- 1/8 NPT
- 1/4 NPT
- 7/16-20 UNF-2A
- 3/8-24 UNF-2A
- M8x1 Shape A
- M10x1 Shape A
- M12x1 Shape A
- M12x1.5 CT-Ring
- M14x1.5 Shape A
- M16x1.5 Shape A
- M16x1.5 female
- M18x1.5 male
- M20x1.5 Manom.
- R 1/4 male
- DDDDD
- EE

### Electrical Connection
- 4 ... 20 mA / 2 wires
- 4 ... 20 mA / 3 wires
- 0 ... 10 V
- 1 ... 5 V
- 0 ... 6 V
- 0 ... 5 V
- 0 ... 5 V (man rat.)
- 0 ... 4.5 V (man rat.)
- 0 ... 6 V
- CANopen 2.0A
- Others

### Process Type
- bar
- kPa
- MPa
- PSI
- kg/cm2
- MWS
- IWS
- MWC
- MWS
- others

### Pressure Type
- Relative Pressure: (g)
- Sealed Reference: (sr)