High Temperature Pressure Transducers & Transmitters

HT-SKL Series

- High accuracy & reliability
- Ranges Vacuum to 2,000 bar
- 2 or 3 wire mA & voltage outputs
- Wide choice of connectors
- Temperature 160°C/180°C
- Compact and rugged design

For applications with high media temperatures up to 160°C (continuous operation) or 180°C (intermittent), the HT-SKL silicon technology pressure sensor uses a dry measuring cell. It is equipped with body cooling fins to enable precise measurements up to 2000 bar, even whilst exposed to severe thermal loading.
High Temperature Pressure Transducers & Transmitters

HT-SKL 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>
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<tbody>
<tr>
<td>Overload pressure</td>
<td>6</td>
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<td>150</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>600</td>
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<td>400</td>
<td>600</td>
<td>1000</td>
<td>1600</td>
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<td>840</td>
<td>1200</td>
<td>2400</td>
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<tr>
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<td>1000</td>
<td>1000</td>
<td>1050</td>
<td>1500</td>
<td>3000</td>
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</table>

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

- Media temperature: -40°C to +160°C (+180°C up to 15 minute duration max)
- Compensated range: -20°C to +85°C
- Ambient temperature: -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% BSFL)
  - Optional <0.25% FS (<0.15% BSFL)
- 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)

Options

- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: G1/4A, G1/4B, G1/2B, 1/4 NPT, M18 x 1.5
  Other connections available on request
- Electrical connection: integral cable, M12 x 1 male socket, DIN plug/socket, mini DIN plug socket (DIN EN 175301-803)
  Other connections available on request
- Weight: approximately 250g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

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

Discover more at www.hydrotechnik.co.uk
<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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<tr>
<td>HT-SKL</td>
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<td>PSI</td>
<td>(sr)</td>
<td>U98M</td>
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### HT-SKL Series

#### ORDER CODES

<table>
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<th>Series</th>
<th>Output</th>
<th>Pressure Range</th>
<th>Unit</th>
<th>Process Type</th>
<th>Electrical Connection</th>
<th>Extras</th>
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<td>0-20 mA/3 wires</td>
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</table>

#### Relative Pressure (g)

-1...0 9000100
-1+1 9000900
0...1 0000100 0...40 0004000
0...1.6 0000160 0...60 0006000
0...2 0000200 0...100 0010000
0...2.5 0000250 0...160 0016000
0...4 0000400 0...200 0020000
0...10 0001000 0...250 0250000
0...16 0001600 0...400 0400000
0...20 0002000 0...600 0600000
0...25 0002500 0...1000 0100000
0...160 0160000
0...2000 0200000
Others BBB

#### Sealed Reference (sr)

-1...0 9000100
-1+1 9000900
0...1 0000100 0...40 0004000
0...1.6 0000160 0...60 0006000
0...2 0000200 0...100 0010000
0...2.5 0000250 0...160 0016000
0...4 0000400 0...200 0020000
0...10 0001000 0...250 0250000
0...16 0001600 0...400 0400000
0...20 0002000 0...600 0600000
0...25 0002500 0...1000 0100000
0...160 0160000
0...2000 0200000
Others BBB

#### Other Codes

- **G** 1/8 A Shape A
- **G** 1/4 A Shape A
- **G** 1/2 A Shape E
- **G** 1/4 B (Manom.)
- **G** 1/2 B (Manom.)
- **G** 1/2 A Shape E
- **G** 1/8 NPT
- **1/4 NPT**
- **7/16-20 UNF-2A**
- **7/16-20 UNF-2A/C**
- **3/8-24 UNF-2A**
- **3/8-24 UNF-2A/C**
- **1/2-20 UNF-2A**
- **M** 8x1 Shape A
- **M** 10x1 Shape A
- **M** 12x1 Shape E
- **M** 12x1 Konical
- **M** 12x1 S CT-Ring
- **M** 14x1 S Shape A
- **M** 14x1 S Shape E
- **M** 14x1 S ISO
- **M** 16x1 S Shape A
- **M** 16x1 S female
- **M** 18x1 S male
- **M** 20x1 S Manom.
- **R** 1/4 male
- **R** 1/4 female
- ** Others**

**Order Codes:**

- **MVCA**
- **MVC/C**
- **Hirschmann Mini**
- **LEMO EW1 15**
- **IS9 Industrial Socket**
- **Packard**
- **Male Socket M 5 / S707**
- **M10**
- **Male Socket M 12 / S763**
- **M12**
- **Male Socket M 16 / S723**
- **M16**
- **Male Socket M 18 / S714**
- **M18**
- **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**
- **Cable Plastic 1.0**
- **Others**

**Extras:**

- **Restrictor 0.6 mm**
- **Restrictor others**
- **Total Error Other**
- **Cleaned for Oxygen Use**
- **Metal Cone**
- **Schrader Opener 2.9**
- **Others (please state)**

**Others:**

- **MVCA**
- **MVC/C**
- **Hirschmann Mini**
- **LEMO EW1 15**
- **IS9 Industrial Socket**
- **Packard**
- **Male Socket M 5 / S707**
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- **Cable Gland Plastic**
- **Cable Steel**
- **Cable Plastic 1.0**
- **Others**

* *e.g. with cable length 1 metre*