HI6000 Hispec®
High Temperature Pressure Transmitter

SPECIFICATIONS

- High ambient temperatures up to 150°C
- Silicon-on-Sapphire sensor technology or outstanding performance
- Pressure ranges up to 1,500 bar
- Titanium wetted parts for excellent chemical compatibility
- High thermal stability over wide temperature range
- High accuracy version available
- Compact design

DESCRIPTION

The HI6000 pressure transmitter series performs at constant media and ambient temperatures of up to 135°C and for limited periods up to 150°C.

The compensated temperature range is from -25°C to +135°C. Available in a range of outputs, and pressure ranges, and with a high accuracy option, it is our most flexible high temperature product.
DIMENSIONS (in mm)

- Height: 85.7 mm
- Hex: 19 mm
- Diameter: 23 mm
- Thread: 7/16-20 UNJF-3A
- Width: 25.4 mm
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Type:</th>
<th>HI6xx0</th>
<th>HI6xx1</th>
<th>HI6xx2</th>
<th>HI6xx3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Technology:</td>
<td>Silicon-on-Sapphire</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Signal:</td>
<td>0.5 - 4.5 V ratiometric (4 wire)</td>
<td>0 - 5 V (4 or 3 wire)</td>
<td>- 10 V (4 or 3 wire)</td>
<td>4-20 mA (2 wire)</td>
</tr>
<tr>
<td>Supply Voltage:</td>
<td>4.8 - 5.5 VDC</td>
<td>10 - 32 VDC</td>
<td>12 - 32 VDC</td>
<td>10 – 36 VDC</td>
</tr>
<tr>
<td>Pressure Reference:</td>
<td>Gauge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(bar):</td>
<td>0 - 1 bar Vac; 0-0.5 bar; 0-1 bar; 0-2.5 bar; 0-6 bar; 0-10 bar; 0-16 bar; 0-25 bar; 0-100 bar; 0-250 bar; 0-400 bar; 0-600 bar; 0-1,000 bar; 0-1,500 bar (other ranges available)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure Ranges (bar):</td>
<td>0-30 in Hg; 0-7.5 psi; 0-15 psi; 0-100 psi; 0-200 psi; 0-300 psi; 0-1,500 psi; 0-3,000 psi; 0-6,000 psi; 0-8,700 psi; 0-15,000 psi; 0-20,000 psi (other ranges available)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overpressure Safety:</td>
<td>2x for up to 600bar ranges, 1.5 for up to 1000bar, 1.1 for 1500bar range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Driving Capability:</td>
<td>≥ 4.5k</td>
<td>≥ 5k</td>
<td>≥ 10k</td>
<td>RL &lt; [UB - 10 V] / 20 mA. (e.g. with supply voltage (UB) of 36 V, max. load (RL) is 1300 Ω)</td>
</tr>
<tr>
<td>Accuracy NLHR:</td>
<td>≤ ±0.25 % of span BFSI. (Optional higher accuracy version of ≤ ±0.1 % of span BFSI available*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero Offset and Span</td>
<td>±0.02 V at room temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature:</td>
<td>-40°C to +135°C, up to +150°C for 10 minutes on rare occasions. Compensated temperature range -25 to 135°C</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Temperature:</td>
<td>-40°C to 135°C (-40°F to +275°F)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Storage Temperature:</td>
<td>+5°C to +40°C (+41°F to +104°F) Recommended Best Practice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Effects:</td>
<td>Cumulative error &lt; ±0.5%FS (TEB)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Electromagnetic</td>
<td>EN61000-6-2; EN61000-4-2: Electrostatic discharge: contact ±4kV, air ± 8kV; EN61000-4-4: Fast Transients ± 4kV signal port; EN61000-4-5: Surges ±0.5kV line to line; EN 61000-4-6: Disturbances 10V eff 0.15MHz - 80MHz. Certification: CE marked</td>
<td></td>
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<tr>
<td>Insulation Resistance:</td>
<td>&gt; 100 MΩ @ 50 VDC</td>
<td></td>
<td></td>
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<tr>
<td>Wetted Parts:</td>
<td>Titanium alloy measurement cell and wetted parts</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Pressure Media:</td>
<td>All fluids compatible with titanium alloy</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Pressure Connection:</td>
<td>AS4395B-E04 (7/16-20 UNJF- 3A) other options available</td>
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<tr>
<td>Electrical Connection:</td>
<td>D38999; shell size 9, 6 pin, pattern 35 or PTFE insulated flying lead, conductor size 7/0.1 mm (other options available)</td>
<td></td>
<td></td>
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<tr>
<td>Net. Weight (Kg):</td>
<td></td>
<td></td>
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</table>

* At room temperature
## ORDER MATRIX

### HI6000
High Temperature Pressure Transmitter

<table>
<thead>
<tr>
<th>Output</th>
<th>Electrical Connection</th>
<th>Wires</th>
<th>Type</th>
<th>Options</th>
<th>Pressure Range</th>
<th>Process Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-4.5 V ratiometric</td>
<td>Cable outlet 1m screened IP67 protection</td>
<td>4</td>
<td>HI6000</td>
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<tr>
<td></td>
<td>D38999 6 pin connector</td>
<td>4</td>
<td>HI6010</td>
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<tr>
<td>0-5 V</td>
<td>Cable outlet 1m screened IP67 protection</td>
<td>4</td>
<td>HI6001</td>
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<td>D38999 6 pin connector</td>
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<td>HI6011</td>
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<td>Cable outlet 1m screened IP67 protection</td>
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<td>HI6301</td>
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<td>D38999 6 pin connector</td>
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<td>HI6311</td>
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<tr>
<td>0-10 V</td>
<td>Cable outlet 1m screened IP67 protection</td>
<td>4</td>
<td>HI6002</td>
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<td>D38999 6 pin connector</td>
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<td>HI6012</td>
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<td>HI6302</td>
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<td>HI6312</td>
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<td>4-20 mA</td>
<td>Cable outlet 1m screened IP67 protection</td>
<td>2</td>
<td>HI6003</td>
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<td></td>
<td>D38999 6 pin connector</td>
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<td>HI6013</td>
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</table>

### Options

- No special options

### Pressure Range in bar

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>Options</th>
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<tbody>
<tr>
<td>0-1 bar Vac</td>
<td>V001</td>
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<tr>
<td>0-0.5 bar</td>
<td>00.5</td>
</tr>
<tr>
<td>0-1 bar</td>
<td>0001</td>
</tr>
<tr>
<td>0-2.5 bar</td>
<td>02.5</td>
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<tr>
<td>0-6 bar</td>
<td>0006</td>
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<tr>
<td>0-10 bar</td>
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<td>0-16 bar</td>
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<td>0-25 bar</td>
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<td>0-100 bar</td>
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<tr>
<td>0-250 bar</td>
<td>0250</td>
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<tr>
<td>0-400 bar</td>
<td>0400</td>
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<tr>
<td>0-600 bar</td>
<td>0600</td>
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<tr>
<td>0-1,000 bar</td>
<td>1000</td>
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<tr>
<td>0-1,500 bar</td>
<td>1500</td>
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</table>

### Process Connection

| AS48958-E04 (7/16-20 UNF- 3A) | FN |

### Order Number Example

H16000-1500FN

For options not listed please contact the sales team.