UNIK 5000 Pressure Sensing Platform

The new UNIK 5000 is a high performance configurable solution to pressure measurement. The use of Druck silicon technology and analogue circuitry enables best in class performance for stability, low power and frequency response. The new platform enables you to easily build up your own sensor to match your own precise needs. This high performance, configurable solution to pressure measurement employs modular design and lean manufacturing techniques to offer:

High Quality

With 35 years of pressure measurement experience, our field-proven Druck silicon technology is at the heart of the new platform, resulting in a range of high quality, high stability pressure sensors.

Bespoke as Standard

Custom-built from standard components, manufacturing sensors to your requirement is fast and simple; each UNIK 5000 is a “bespoke” pressure sensing solution, but with the short lead times and competitive pricing you would expect from standard products.

Expertise

We have the people and the knowledge to support your needs for accurate and reliable product performance; our team of experts can help you make the right sensor selection, guiding you and providing the help and tools you need. It is important to ensure that the sensor material and performance selected are suitable for your application.

Features

- Ranges from 70 mbar (1 psi) to 700 bar (10,000 psi)
- Accuracy to ±0.04% Full Scale (FS) Best Straight Line (BSL)
- Stainless Steel construction
- Frequency response to 3.5 kHz
- High over pressure capability
- Hazardous Area certifications
- mV, mA, voltage and configurable voltage outputs
- Multiple electrical & pressure connector options
- Operating temperature ranges from –55 to 125°C (-67 to 257°F)
5000 Specifications

Measurement

Operating Pressure Ranges

Gauge ranges
Any zero based range between 70 mbar and 70 bar (1 to 1,000 psi) (values in psi are approximate)

Sealed Gauge Ranges
Any zero based range between 10 and 700 bar (145 to 10,000 psi)

Absolute Ranges
Any zero based range between 100 mbar and 700 bar (1.5 to 10,000 psi)

Differential Ranges

Wet/Dry
Uni-directional or bi-directional 70 mbar to 35 bar (1 to 500 psi)

Wet/Wet
Uni-directional or bi-directional 350 mbar to 35 bar (5 to 500 psi)

Barometric Ranges
Barometric ranges are available with a minimum span of 350 mbar (5.1 psi)

Non Zero Based Ranges
Non zero based ranges are available. Please contact GE Sensing to discuss your requirements

Over Pressure

• 10 × FS for ranges up to 150 mbar (2 psi)
• 6 × FS for ranges up to 700 mbar (10 psi)
• 2 × FS for barometric ranges
• 4 × FS for all other ranges (up to 200 bar for ranges ≤70 bar and up to 1200 bar for ranges >70 bar)

For differential versions the negative side must not exceed the positive side by more than:

• 6 × FS for ranges up to 150 mbar (2 psi)
• 4 × FS for ranges up to 700 mbar (10 psi)
• 2 × FS for all other ranges up to a maximum of 15 bar (200 psi)

Containment Pressure
Ranges up to 150 mbar (2 psi) gauge 10 × FS
Ranges up to 70 bar (1000 psi) gauge 6 × FS
(200 bar (2900 psi) max)
Ranges up to 70 bar (1000 psi) absolute
200 bar (2900 psi)
Ranges above 70 bar (1000 psi)
1200 bar (17400 psi)

Differential (-ve port) must not exceed positive port by more than 6 × FS (15 bar (200 psi) maximum)

Supply and Outputs

<table>
<thead>
<tr>
<th>Electronics Option</th>
<th>Description</th>
<th>Supply voltage (V)</th>
<th>Output Current (mA)</th>
<th>Current Consumption (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>mV Passive</td>
<td>2.5 to 12</td>
<td>10 mV/V^-</td>
<td>&lt;2 at 10 V</td>
</tr>
<tr>
<td>1</td>
<td>mV Linearised</td>
<td>7 to 12</td>
<td>10 mV/V^-</td>
<td>&lt;3</td>
</tr>
<tr>
<td>2</td>
<td>mA</td>
<td>7 to 28**</td>
<td>4-20 mA</td>
<td>&lt;30</td>
</tr>
<tr>
<td>3</td>
<td>0 to 5 V 4-wire</td>
<td>7 to 16**</td>
<td>0 to 5 V</td>
<td>&lt;3</td>
</tr>
<tr>
<td>4</td>
<td>0 to 5 V 3-wire</td>
<td>7 to 16**</td>
<td>0 to 5 V^*</td>
<td>&lt;3</td>
</tr>
<tr>
<td>5</td>
<td>1 to 6 V 3-wire</td>
<td>7 to 16**</td>
<td>1 to 6 V</td>
<td>&lt;3</td>
</tr>
<tr>
<td>6</td>
<td>0 to 10 V 4-wire</td>
<td>12 to 16**</td>
<td>0 to 10 V</td>
<td>&lt;3</td>
</tr>
<tr>
<td>7</td>
<td>0.5 to 4.5 V Ratiometric</td>
<td>5.0 ± 0.5</td>
<td>0.5 to 4.5 V</td>
<td>&lt;3</td>
</tr>
<tr>
<td>8</td>
<td>Isolated/Configurable (4 wire)</td>
<td>7 to 36</td>
<td>See below</td>
<td>See below</td>
</tr>
<tr>
<td>9</td>
<td>Configurable (3 wire)</td>
<td>7 to 36</td>
<td>See below</td>
<td>See below</td>
</tr>
</tbody>
</table>

^ with a 10 volt supply mV output sensors give 100 mV over the full scale pressure.
• Output is ratiometric to the supply voltage
• Output reduces pro-rata for pressure ranges below 350 mbar (5 psi)
• *0 to 5 V 3-wire output is non true zero. At pressures below 1% of span the output will be fixed at approximately 50 mV
**7 to 32 V in non-hazardous area operation

Isolated/Configurable (Option 8) or Configurable (Option 9)
Any pressure signal output configurations will be available, subject to the following limitations:
• Minimum span: 2 V
• Maximum span: 20 V
• Output limits: ±10 V
• Maximum zero offset: ± span
• Output voltage range can be specified to a resolution of 0.1 V
Reverse output response to pressure is available. The output will continue to respond to 110% FS, i.e. if a 0 to 10 V output is specified, the output will continue to increase proportionally to applied pressure until at least 11 V.
Current consumption is <20 mA @ 7 Vdc supply, reducing to <5 mA @ 32 Vdc supply. On startup <100 mA drawn for 10 ms typically.
Shunt calibration: not available with reverse output.

Note: Restricted to 80°C (176°F) for these options.

Examples

<table>
<thead>
<tr>
<th>Allowed</th>
<th>Not Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10 to 0 V</td>
<td>0 to 12 V (outside ±10 V limits)</td>
</tr>
<tr>
<td>0 to 5 V</td>
<td>6 to 10 V (offset too big)</td>
</tr>
<tr>
<td>-5 to +5 V</td>
<td>0 to 0.5 V (span too small)</td>
</tr>
<tr>
<td>-2 to 10 V</td>
<td></td>
</tr>
<tr>
<td>1 to 6 V</td>
<td></td>
</tr>
<tr>
<td>10 to 0 V</td>
<td></td>
</tr>
</tbody>
</table>

Power-Up Time

• mV, Voltage and current versions: 10 ms
• Isolated/configurable version: 500 ms

Insulation

• 500 Vdc: 100 MΩ
• 500 Vac: ≤ 5 mA leakage current (mV and mA versions only).
**Shunt Calibration**

Shunt Calibration provides a customer accessible connection which, when applied, causes a shift in output of 80% FS in order to simulate applied pressure. It is fitted to the mV and Isolated/Configurable versions as standard. It is not available with DIN or M12 x 1 electrical connectors. (options 7, D and G)

Shunt calibration is activated in different ways depending on the electrical connector and version:

- mV versions: connect Shunt Cal to -ve Supply or, where available, connect both Shunt Cal connections together.
- Isolated/Configurable version: connect Shunt Cal to -ve Output or, where available, connect both Shunt Cal connections together.

*Note: Not available with reverse output.*

**Performance Specifications**

There are three grades of performance specification: Industrial, Improved and Premium

**Accuracy**

Voltage, Current and mV Linearised

Combined effects of non-linearity, hysteresis and repeatability:

<table>
<thead>
<tr>
<th></th>
<th>Industrial</th>
<th>Improved</th>
<th>Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>mV Passive</td>
<td>±0.04% FS BSL</td>
<td>±0.03% FS BSL</td>
<td>±0.01% FS BSL</td>
</tr>
</tbody>
</table>

**Zero Offset and Span Setting**

Demountable electrical connector options allow access to potentiometers that give at least ±5% FS adjustment (see Electrical Connector section)

**Factory set to:**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Industrial</th>
<th>Improved and Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current and Voltage Versions (Demountable Electrical Connections and Cable Gland)</td>
<td>±0.5% FS</td>
<td>±0.2% FS</td>
</tr>
<tr>
<td>Current and Voltage Versions (All Other Electrical Connections)</td>
<td>±1.0% FS</td>
<td>±1.0% FS</td>
</tr>
<tr>
<td>mV Versions</td>
<td>±3.0 mV</td>
<td>±3.0 mV</td>
</tr>
</tbody>
</table>

**Long Term Stability**

±0.05% FS typical (±0.1% FS maximum) per year increasing pro-rata for pressure ranges below 350 mbar

**General Certifications**

RoHS 2002/95/EC
CRN Certified 013650.513467890YTN for pressure ranges up to and including 350 bar (5000 psi)

**CE Conformity**

Pressure Equipment Directive 97/23/EC
ATEX 94/9/EC (Optional)
EMC Directive 2004/108/EC

- BS EN 61000-6-1: 2007 Susceptibility - Light Industrial
- BS EN 61000-6-2: 2005 Susceptibility - Heavy Industrial (except mV versions)
- BS EN 61000-6-3: 2007 Emissions - Light Industrial
- BS EN 61000-6-4: 2007 Emissions - Heavy Industrial
- BS EN 61326-1: 2006 Electrical Equipment for Measurement, Control and Laboratory Use
- BS EN 61326-2-3: 2006 Particular requirements for pressure transducers

**Hazardous Area Approvals (optional)**

General applications

- IECEx/ATEX Intrinsically Safe ‘ia’ Group IIC
- FM Approved (Canada & US) Intrinsically Safe Exia Class I, Division 1, Groups A, B, C & D and Class I, Zone 0 AEx/Ex ia Group IIC; Single Seal

Mining applications

- IECEx/ATEX Intrinsically Safe ‘ia’ Group I

For full certification details, refer to the type-examination certificates (or approval listings) and Hazardous Area Installation Instructions.
Temperature Effects
Four compensated temperature ranges can be chosen. Industrial Accuracy performance:
-10 to +50 °C (14 to +122 °F): ±0.75% FS
Temperature error band (TEB)
-20 to +80 °C (-4 to +176 °F): ±1.5% FS TEB
-40 to +80 °C (-40 to +176 °F): ±2.25% FS TEB
Improved and Premium Accuracy performance:
-10 to +50 °C (14 to +122 °F): ±0.5% FS TEB
-20 to +80 °C (-4 to +176 °F): ±1.0% FS TEB
-40 to +80 °C (-40 to +176 °F): ±1.5% FS TEB

Temperature effects increase pro-rata for pressure ranges below 350 mbar (5 psi) and are doubled for barometric ranges.

Line Pressure Effects (Differential Version Only)
Zero shift: <±0.03% span/bar of line pressure
Span shift: <±0.03% span/bar of line pressure
Effects increase pro-rata for differential pressure ranges below 700 mbar (10 psi).

Physical Specifications

Environmental Protection
- See Electrical Connector section
- Hyperbaric Pressure: 20 bar (300 psi) maximum

Operating Temperature Range
See Electrical Connector section

Pressure Media
Fluids compatible with Stainless Steel 316L and Hastelloy C276.
For the wet/dry differential version, negative pressure port: fluid compatible with stainless steel 316L, stainless steel 304, pyrex, silicon and structural adhesive.

Enclosure Materials
Stainless steel (body), nitrile- or silicone-rubber (o-rings, gaskets), EPDM (gaskets, depth cone), PTFE (vent filter), Nickel plated brass (lock rings), glass filled nylon (electrical connector assemblies), delrin (depth cone).

Pressure Connector
Available options are
- G1/4 Female*
- G1/4 Male Flat
- G1/4 Male 60° Internal Cone
- G1/4 Male Flat Long
- G1/4 Male Flat with Snubber
- G1/4 Male Flat with Cross Bore Protection
- G1/4 Quick Connect
- G1/8 Male 60° Internal Cone
- G1/2 Male via Adaptor*
- 1/4 NPT Female*
- 1/4 NPT Male
- 1/8 NPT Male
- 1/2 NPT Male via Adaptor
- 7/16-20 UNF Female
- 7/16-20 UNF Male Short Flat
- 7/16 UNF Long 37° Flare Tip
- 7/16-20 UNJF Male 74° External Cone
- 3/8-24 UNJF
- 1/4 Swagelok Bulkhead
- M10 x 1 80° Internal Cone
- M12 x 1 60° Internal Cone
- M14 x 1.5 60° Internal Cone
- M20 x 1.5 Male
- Depth Cone (G1/4 Female Open Face)
- M12 x 1.0 74° External Cone
- Quick Release Male
- VCR Female
- VCR Male

Choose connectors marked * for pressure ranges over 70 bar. Other pressure connectors may be available, contact GE to discuss your requirement.

Electrical Connector
Various electrical connector options are available offering different features:

<table>
<thead>
<tr>
<th>Code Number</th>
<th>Description</th>
<th>Max Operating temp range °C</th>
<th>°F</th>
<th>IP rating</th>
<th>Zero span Adjust</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No Connector</td>
<td>-55 to +125</td>
<td>-67 to +257</td>
<td>-</td>
<td>Y</td>
</tr>
<tr>
<td>1</td>
<td>Cable Gland</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>65</td>
<td>N</td>
</tr>
<tr>
<td>2</td>
<td>Raychem Cable</td>
<td>-55 to +125</td>
<td>-67 to +257</td>
<td>65</td>
<td>N</td>
</tr>
<tr>
<td>3</td>
<td>Polyurethane Depth</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>68</td>
<td>N</td>
</tr>
<tr>
<td>4</td>
<td>Hytrel Depth</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>68</td>
<td>N</td>
</tr>
<tr>
<td>6/E</td>
<td>Bayonet MIL-C-26482</td>
<td>-55 to +125</td>
<td>-67 to +257</td>
<td>67</td>
<td>N</td>
</tr>
<tr>
<td>7</td>
<td>DIN 43650 Form A Demountable</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>65</td>
<td>Y</td>
</tr>
<tr>
<td>A/F</td>
<td>Bayonet MIL-C-26482 Demountable</td>
<td>-55 to +125</td>
<td>-67 to +257</td>
<td>65</td>
<td>Y</td>
</tr>
<tr>
<td>C</td>
<td>1/2 NPT Conduit</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>65</td>
<td>N</td>
</tr>
<tr>
<td>D</td>
<td>Micro DIN 9.4 mm pitchl</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>65</td>
<td>N</td>
</tr>
<tr>
<td>G</td>
<td>M12x1 4pin</td>
<td>-55 to +125</td>
<td>-67 to +257</td>
<td>67</td>
<td>N</td>
</tr>
<tr>
<td>K</td>
<td>Zero Halogen Cable Demountable</td>
<td>-40 to +80</td>
<td>-40 to +176</td>
<td>65</td>
<td>Y</td>
</tr>
<tr>
<td>M</td>
<td>Tajimi R03-R6F</td>
<td>-25 to +85</td>
<td>-13 to +185</td>
<td>65</td>
<td>N</td>
</tr>
</tbody>
</table>

Note: Electronics output options 8 and 9 are restricted to a maximum operating temperature of 80°C (176°F).
Note: Hazardous area approved versions are restricted to a maximum operating temperature range of -40°C to 80°C (-40°F to 176°F).
<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Option code</th>
<th>4 to 20 mA</th>
<th>Voltage (3-wire)</th>
<th>Isolated/ Configurable (3-wire)</th>
<th>mV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molex</td>
<td>0</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
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<tr>
<td></td>
<td>1</td>
<td>-</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>-</td>
<td>-</td>
<td></td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>-</td>
<td>-</td>
<td></td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>-</td>
<td>-</td>
<td></td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>-</td>
<td>+ve Output</td>
<td>Shunt Cal</td>
<td>+ve Supply</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>-</td>
<td>-</td>
<td></td>
<td>+ve Supply</td>
</tr>
<tr>
<td>Cable (Not Raychem)</td>
<td>1, 3, 4, C</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
</tr>
<tr>
<td>Raychem Cable</td>
<td>2</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
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<td>Bayonet</td>
<td>6</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>Shunt Cal</td>
<td>+ve Supply</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>Shunt Cal</td>
<td>+ve Supply</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>Shunt Cal</td>
<td>+ve Supply</td>
</tr>
<tr>
<td>DIN A Micro DIN</td>
<td>7</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
</tr>
<tr>
<td>Aircraft</td>
<td>8</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Output</td>
</tr>
<tr>
<td>Alternative Wiring Options</td>
<td>E, F</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td>M12 X 1 4-Pin</td>
<td>G</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td>Zero Halogen Cable (Demountable)</td>
<td>K</td>
<td>+ve Supply</td>
<td>+ve Output</td>
<td>+ve Output</td>
<td>+ve Output</td>
</tr>
<tr>
<td>Tajimi R03-R6F</td>
<td>M</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
<td>+ve Supply</td>
</tr>
</tbody>
</table>
### Main Product Variant
- **PMP**: Amplified Pressure Transducer
- **PDCR**: mV Pressure Transducer
- **PTX**: 4-20 mA Pressure Transmitter

### Product Series
- **5**: UNIK 5000

### Diameter and Material
- **0**: 25mm Stainless Steel

### Electrical Connector
- **Note 6**: 0: No Electrical Connector
- **Note 7**: 1: Cable Gland (Polyurethane Cable)
- **Note 8**: 2: Raychem Cable
- **Note 9**: 3: Polyurethane Cable (Depth)
- **Note 10**: 4: Hytrel Cable (Depth)
- **Note 11**: 5: MIL-C-26482 6-pin Shell Size 10 (Mating connector not supplied)
- **Note 12**: 6: DIN 43650 Form A Demountable (Mating connector supplied)
- **Note 13**: 7: 1/2" NPT Conduit (Polyurethane cable)
- **Note 14**: 8: Raychem Cable
- **Note 15**: 9: Polyurethane Cable (Depth)
- **Note 16**: 10: Hytrel Cable (Depth)
- **Note 17**: 11: MIL-C-26482 6-pin Shell Size 10 (Mating connector not supplied)
- **Note 18**: 12: Alternative Wiring (Mating connector supplied)
- **Note 19**: 13: MIL-C-26482 6-pin Shell Size 10 Adjustable (Mating connector supplied)
- **Note 20**: 14: Demountable MIL-C-26482 6-pin Shell Size 10 Adjustable (Mating connector supplied)

### Electronics Option
- **Note 1**: 0: mV Passive 4-wire (PDCR)
- **Note 2**: 1: mV Linearised 4-wire (PDCR)
- **Note 3**: 2: 4 to 20 mA 2-wire (PTX)
- **Note 4**: 3: 0 to 5 V 4-wire (PMP)
- **Note 5**: 4: 0 to 5 V 3-wire (PMP)
- **Note 6**: 5: 1 to 6 V 3-wire (PMP)
- **Note 7**: 6: 0 to 10 V 4-wire (PMP)
- **Note 8**: 7: 0.5 to 4.5 V Ratiometric 3-wire (PMP)
- **Note 9**: 8: Isolated/Configurable 4-wire (PMP)
- **Note 10**: 9: Configurable 3-wire (PMP)

### Compensated Temperature Range
- **TA**: -10 to +50 °C (-14 to +122 °F)
- **TB**: -20 to +80 °C (-4 to +176 °F)
- **TC**: -40 to +80 °C (-40 to +176 °F)
- **TD**: -40 to +125 °C (-40 to +257 °F)

### Accuracy
- **A1**: Industrial
- **A2**: Improved
- **A3**: Premium

### Calibration
- **CA**: Zero/Span Data
- **CB**: Room Temperature
- **CC**: Full Thermal

### Hazardous Area Approval
- **H0**: None
- **H1**: IEEEx/ATEX Intrinsically Safe 'ia' Group II
- **H2**: FM/C & US Intrinsically Safe 'ia' Group II
- **H3**: IEEEx/ATEX Intrinsically Safe 'ia' Groups II/IIA [H1 + H2]
- **H4**: IEEEx/ATEX Intrinsically Safe 'ia' Groups IIAB/IIIC [H1 + H4]

### Pressure Connector
- **PA**: G1/4 Female
- **PB**: G1/4 Male
- **PC**: G1/4 Male 60° Internal Cone
- **PD**: G1/8 Male 60° Internal Cone
- **PE**: 1/4 NPT Female
- **PF**: 1/4 NPT Male
- **PG**: 1/8 NPT Male
- **PH**: M20x1.5
- **PJ**: M14x1.5 60° Internal Cone
- **PK**: 1/4 Swagelok Bulkhead
- **PL**: 7/16-20 UNJF Male 74° External Cone
- **PN**: G1/2 Male via Adaptor
- **PQ**: G1/4 Quick Connect
- **PR**: 1/2 NPT Male via adaptor
- **PS**: 1/4 Swagelok Bulkhead
- **PT**: G1/4 Male Flat Long
- **PU**: 7/16-20 UNJF Long 37° flare tip
- **PV**: 7/16-20 UNJF Female
- **PW**: Depth Cone G1/4 Female open face
- **PX**: 7/16-20 UNJF Male Short Flat
- **PY**: 3/8-24 UNJF
- **PZ**: M10 x 1 80° Internal Cone
- **RA**: VCR Female
- **RB**: G1/4 Male Flat with Snubber
- **RC**: G1/4 Male Flat with Cross Bore Protection
- **RD**: M12 x 1.75° External Cone
- **RE**: Quick Release Mount
- **RF**: VCR Male

### Typical Model Number

<table>
<thead>
<tr>
<th>PTX</th>
<th>5</th>
<th>0</th>
<th>7</th>
<th>-</th>
<th>A2</th>
<th>-</th>
<th>CB</th>
<th>-</th>
<th>H0</th>
<th>-</th>
<th>PA</th>
<th>Typical Model Number</th>
</tr>
</thead>
</table>

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*Ordering Information*

See the online configuration tool at www.unik5000.com
2) State pressure range and units: e.g. 0 to 10 bar, -5 to + 5 psi

Unit options are:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>bar</td>
</tr>
<tr>
<td>mbar</td>
<td>millibar</td>
</tr>
<tr>
<td>psi</td>
<td>pounds/sq. inch</td>
</tr>
<tr>
<td>Pa</td>
<td>Pascal</td>
</tr>
<tr>
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<td>hectoPascal</td>
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<td>mm water</td>
</tr>
<tr>
<td>cmH2O</td>
<td>cm water</td>
</tr>
<tr>
<td>mH2O</td>
<td>metres water</td>
</tr>
<tr>
<td>inH2O</td>
<td>inches water</td>
</tr>
<tr>
<td>ftH2O</td>
<td>feet water</td>
</tr>
<tr>
<td>mmHg</td>
<td>mm mercury</td>
</tr>
<tr>
<td>kgf/cm2</td>
<td>kg force/sq. cm</td>
</tr>
<tr>
<td>atm</td>
<td>atmosphere</td>
</tr>
<tr>
<td>Torr</td>
<td>torr</td>
</tr>
</tbody>
</table>

3) State Pressure reference: e.g. gauge

Reference options are:

gauge
absolute
barometric
sealed gauge
wet/dry differential
wet/wet differential

4) State cable lengths and units: Integer values only, e.g. 1m cable, 8 ft, minimum length 1 m (3 ft) cable (only required on certain electrical connectors), Maximum cable length 190 m (570 ft)

5) Output options 8 and 9: State voltage output at minimum and maximum pressure: e.g. output -1 to 9 V

Typical order examples:

PTX5012-TB-A2-CA-H0-PM, 0 to 10 bar gauge, 3 m cable
PMP5028-TD-A3-CC-H0-PE, -15 to 75 psi, gauge, 15ft cable, output voltage -1 to 5 volts
PDCR5071-TB-A1-CE-H0-PB, 0 to 100 bar, sealed gauge

Accessories

Mating connector for MIL-C-26482 (Electrical connector options 6, A, E and F) under part number S_163-009.

Note: Not considered suitable for use in hazardous areas due to light metals content and low ingress protection (IP) rating.
NOTES:

[1] Dimensions shown are for standard length products with the following electrical output options:
   - mV Linearised (PDCR)
   - 4 to 20 mA (PTX)
   - Standard voltage options (PMP)
   - For mV Passive (PDCR) - subtract 10 mm (0.39 in)
   - For Isolated/Configurable (PMP) - add 15 mm (0.59 in)

[2] Refer to page 4 for list of pressure connection options (orientation not critical)

[3] All dimensions are in millimetres (inches in parentheses)

[4] High Pressure > 70 bar
   - Industrial accuracy > 1 bar ≤ 50 bar
   - Improved/Extra-Capacity > 70 bar ≤ 70 bar

   - Industrial accuracy = 1 bar ≤ 50 bar
   - Improved/extra-Capacity = 50 bar to = 70 bar

[6] Low/Medium Pressure
   - Industrial accuracy < 1 bar, > 50 bar to < 70 bar
   - Improved/Premium accuracy < 2 bar, > 50 bar to < 70 bar