ASUH SERIES 4-20mA
HYBRID
PRESSURE TRANSDUCER

The ASUH Series of High Performance Sub-Miniature Pressure Transducers have been designed for demanding installations in precision engineering. The new design utilises miniaturised hybrid components, allowing savings in both size and weight; this transducer has enhanced performance at elevated temperature and is optimised for extreme installations such as on-engine or transmissions.

With a modular construction and programmable amplifier, this provides a fast delivery time for standard and custom configurations.

Pressure ranges are available between 10 to 400 Bar in either Absolute, Gauge or Sealed Gauge reference.

Industry standard 2-wire electrical connections allow configuration with most common ECU’s and data logging systems.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Reference</td>
<td>Absolute, Gauge and Sealed Gauge</td>
</tr>
<tr>
<td>Standard Pressure Ranges (Bar)</td>
<td>10, 15, 20, 35, 50, 100, 200, 400</td>
</tr>
<tr>
<td>Proof Pressure (Over range)</td>
<td>200% of Range</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>&gt;500% of Range</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.25% FS Combined Linearity &amp; Hysteresis (CNLH)</td>
</tr>
<tr>
<td>Thermal Accuracy</td>
<td>Zero ±0.02% FS/°C (Sensitivity ±0.02% of Reading /°C)</td>
</tr>
<tr>
<td>Output</td>
<td>4-20mA (±0.5%)</td>
</tr>
<tr>
<td>Supply</td>
<td>9-40Vdc</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40°C to +150°C</td>
</tr>
<tr>
<td>Compensated Temperature Range</td>
<td>Please see Part Number Configurator</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>0-1000Hz (Standard)</td>
</tr>
<tr>
<td>Construction</td>
<td>Stainless Steel (17-4ph)</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>50cm 26AWG, 55Spec Wire + DR25 Sleeve</td>
</tr>
<tr>
<td>Process Connection (Thread Size)</td>
<td>Please see Part Number Configurator</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP67</td>
</tr>
<tr>
<td>EMC Protection &amp; Vibration</td>
<td>EN E50082-1 and Mil-Std-810C, Curve L, 20G</td>
</tr>
<tr>
<td>Weight</td>
<td>20g (Including Cable)</td>
</tr>
<tr>
<td>Options</td>
<td>Cable Spec, Connector Fitted, Thread Size &amp; Labelling</td>
</tr>
</tbody>
</table>

KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.

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The KA configuration tool is used to specify a standard KA Sensor, other options are available.

**PART NUMBER CONFIGURATOR**

**Pressure Reference**
- Absolute
- Gauge
- Sealed Gauge

**Pressure Range**
- 10 Bar 1002
- 15 Bar 1502
- 20 Bar 2002
- 25 Bar 2502
- 50 Bar 5002
- 100 Bar 1002
- 200 Bar 2002
- 400 Bar 4002

**Supply Voltage**
- 9-40Vdc (4-20mA Output)
- Power Input 2.6W

**Accuracy (F.K.H.)**
- +0.25% F.S. (Combined Linearity & Hysteresis)

**Accuracy (Thermal Shift in CTR)**
- Zero ±0.02% F.S. /°C (Sensitivity ±0.02% of Reading /°C)

**Compensated Temperature Range (CTR)**
- Standard 0° to +125°C
- 0° to +150°C
- 25° to +100°C
- 40° to +125°C
- 40° to +150°C

**Electrical Connection**
- 20AWG, 55spec Wire + CR25 Sleeve
- 26AWG, 55spec Wire + 100m delve

**Process Connection**
- 3/8 Inch 24 UNF Dash 2 (SAE 354)
- M10 x 1 Male (ISO 8432-2)
- M8 x 2 Male
- 5/16 Inch 24 UNF - No Cone (SAE 354)
- 5/16 Inch 24 UNF Dash 2 (SAE 354)

**Bandwidth**
- 0-100kHz

**Cable Length**
- 50m

**Special Code**
- None

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**MECHANICAL DETAILS**

**Connection Details**

<table>
<thead>
<tr>
<th>+Ve Supply</th>
<th>0V Supply</th>
<th>Factory Use Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Black</td>
<td>White</td>
</tr>
</tbody>
</table>

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**Services for:**
- Data Logging
- Telemetry
- Controls
- Wiring

**Contact us**
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