The ASUH-I Series of High Performance Sub-Miniature Pressure Transducers have been designed for demanding installations in precision engineering. The new design of the ASUH-I 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>Detail</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 ±0.01% FS/°C (Sensitivity ±0.01% 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>0°C to +125°C</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>0-1000Hz</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.

**ASUH-I 10.18**
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
- 15 Bar
- 20 Bar
- 35 Bar
- 50 Bar
- 100 Bar
- 200 Bar
- 500 Bar
- 1000 Bar
- 2000 Bar
- 4000 Bar

**Supply Voltage**
- 0-4Vdc (4.2mVmA Output)

**Accuracy (CNIH)**
- +/-0.25% FS Combined Linearity & Hysteresis

**Accuracy (Thermal Shift)**
- Zero +/-0.01% FS/°C (Sensitivity +/-0.01% of Reading °C)

**Electrical Connection**
- 26AWG, 55Spec Wire +DR25 Sleeve
- 3/8 Inch 24 UNF Dash 3 (SAE 7514)
- M10 x 1 Male (ISO 6149-2)
- MB x 1 Male
- 5/16 Inch 24 UNF - No Cone (SAE 7514)
- 5/16 Inch 24 UNF Dash 1 (SAE 7514)
- MS x 0.8

**Process Connection**
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P

**Bandwidth**
- 50cm

**Cable Length**
- 0-1000Hz

**Special Code**
- None

**MECHANICAL DETAILS**

- 2.6AWG, 55Spec Cable
- DR25 Sleeve
- 13.00 A/F HEX
- 14.00 CORNERS

**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>

**Address**
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+44(0)1476 568057

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

**ASUH-I 10.18**