The ASH Series of High Performance Pressure Transducers have been designed for extreme endurance and high temperature installations in motorsport and automotive applications; ideal for high precision data acquisition or control systems. These transducers can be installed directly onto vehicles, as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASH is protected against the high vibration, shock and high temperatures found in motorsport.

With a modular construction and programmable amplifier provide a fast delivery for standard and custom configurations. Continuous operation up to 150°C allows for installation in hot zones.

Pressure ranges are available between 20 to 400 Bar in either Absolute, Gauge or Sealed Gauge reference. Industry standard 3-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>20, 35, 50, 100, 120, 200 and 400</td>
</tr>
<tr>
<td>Proof Pressure (Over range)</td>
<td>150% of Range</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>&gt;300% of Range</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.2% 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>0.5V to 4.5V (±0.25%)</td>
</tr>
<tr>
<td>Supply</td>
<td>5V (±0.5V) Ratiometric or 8-16Vdc</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, 5000Hz (Selectable at time of Order)</td>
</tr>
<tr>
<td>Construction</td>
<td>Stainless Steel, Viton</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 up to 5KHz Sine at 100g</td>
</tr>
<tr>
<td>Weight</td>
<td>54g (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.
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

**Mechanical Details**

![Mechanical Diagram]

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

- **Pressure Range**
  - 0 Bar
  - 20 Bar
  - 30 Bar
  - 50 Bar
  - 100 Bar
  - 120 Bar
  - 200 Bar
  - 400 Bar

- **Supply Voltage**
  - 5V Ratometric
  - ±0.2% FS

- **Accuracy (CNRH)**
  - ±0.01% FS

- **Accuracy (Thermal Shift)**
  - ±0.01% FS/°C

- **Electrical Connection**
  - M10 x 1 Male (ISO 6149-2)
  - 3/8 Inch 24 UNF DASH 3 (SAE J514)
  - 1/8 Inch NPT Male (ANSI RL 20.1)
  - 5/16 Inch 20 UNF DASH 4 (SAE J514)

- **Bandwidth**
  - 0 - 1000Hz
  - 0 - 2000Hz

- **O-Ring Material (Internal)**
  - None

- **Cable Length**
  - 50m

- **Special Code 1**
  - None

- **Special Code 2**
  - None

---

**Connection Details**

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

---

**Contact us**

KA Sensors Ltd
Unit 14 & 15
The Old Malthouse
Springfield Road
Grantham
Lincolnshire
United Kingdom
NG31 7BG

kasensors.com
sales@kasensors.com
+44(0)1476 568057