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

Offering a high level of reliability and endurance, the ASM Series is protected against the high vibration, shock and high temperatures found in motorsport. With a modular construction and a programmable amplifier, this provides a large stock available of standard parts for fast delivery.

Pressure ranges are available between 1 to 250 Bar in either Absolute or Sealed Gauge reference. Industry standard 3-wire electrical connections allow configuration with most common ECU’s and data logging systems. The ASM Series is race proven in many formulae around the world, offering a cost effective solution for professional engineers.

<table>
<thead>
<tr>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td><strong>Pressure Reference</strong></td>
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</tbody>
</table>
| **Standard Pressure Ranges (Bar)** | Low Range: 1, 2, 5, 10, 35 & 50  
High Range: 100, 200 & 250 |
| **Proof Pressure (Over-range)** | 300% of Range / 150% of Range |
| **Burst Pressure**        | >1000% of Range / >300% of Range |
| **Accuracy**              | ±0.08% FS Combined Linearity & Hysteresis (CNLH)  
±0.2% FS Combined Linearity & Hysteresis (CNLH) |
| **Thermal Accuracy**      | <±0.25% FS TEB within Compensated Range  
Zero ±0.01% FS/*°C (Sensitivity ±0.01% of Reading °C) |
| **Output**                | 0.5V to 4.5V (±0.5%) |
| **Supply**                | 5V (±0.5V) Ratiometric or 8-16Vdc (<20mA) |
| **Operating Temperature Range** | -40°C to +150°C  
0°C to +125°C |
| **Compensated Temperature Range** | 0-1000Hz, 5000Hz (Selectable at time of Order) |
| **Construction**          | Stainless Steel |
| **Electrical Connection** | 50cm 26AWG, 55 Spec Wire + DR25 Sleeve |
| **Process Connection (Thread Size)** | Please see Part Number Configurator |
| **Protection Class**      | IP67 |
| **EMC Protection & Vibration** | EN E50082-1 and Mil-Std-810C, Curve L, 20G |
| **Weight**                | 28g (Including Cable) |

KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.
**Part Number Configurator**

- **Pressure Reference**
  - Absolute (A)
  - Sealed Gauge (S)
- **Pressure Range**
  - 1 Bar: 1000
  - 2 Bar: 2000
  - 5 Bar: 5000
  - 10 Bar: 1002
  - 35 Bar: 3502
  - 50 Bar: 5002
  - 100 Bar: 1003
  - 200 Bar: 2003
  - 250 Bar: 2503
- **Supply Voltage**
  - 5V Ratiometric
  - 8-16V
- **Process Connection**
  - 3/8 Inch 24 UNF Dash 3 (SAE 1514)
  - M10 x 1 Male (ISO 6149-2)
  - M8 x 1 Male (ISO 6149-2)
  - 5/16 Inch 24 UNF Dash 2 (SAE 1514)
- **Bandwidth**
  - 0-1000Hz
  - 0-5000Hz
- **Special Code**
  - None

**Mechanical Details**

26 AWG, 55 SPEC. CABLE
DR25 SLEEVE

**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>
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</tbody>
</table>

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