ASM Series
MINIATURE HIGH TEMPERATURE PRESSURE TRANSDUCER

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

Offering a high level of reliability and endurance the ASM is protected against the high vibration, shock and high temperatures found in motorsport. Continuous operation up to 150°C allows for installations in hot zones. With a modular construction and programmable amplifier, this provides a fast delivery time for standard and custom configurations.

Pressure ranges are available between 50 to 400 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 are race proven in many formula around the world.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Reference</td>
<td>Absolute and Sealed Gauge</td>
</tr>
<tr>
<td>Standard Pressure Ranges (Bar)</td>
<td>50, 100, 200, 400</td>
</tr>
<tr>
<td>Proof Pressure (Overrange)</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 (±0.5%)</td>
</tr>
<tr>
<td>Supply</td>
<td>5V (±0.5V) Ratiometric or 8-16Vdc</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-20°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</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>38g (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.

### Part Number Configurator

#### Pressure Reference
- Absolute
- Sealed Gauge

#### Pressure Range
- 50 Bar
- 100 Bar
- 200 Bar
- 400 Bar

#### Supply Voltage
- 5V
- 8-16V

#### Accuracy (CNLH)
- ±0.2% FS Combined Linearity & Hysteresis
- ±0.01% FS/°C (Sensitivity ±0.01% of Reading / °C)

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

#### Electrical Connection
- 26AWG, 55spec Wire +DR25 Sleeve
- 3/8 Inch 24 UNF Dash 3 (SAE J514)
- M10 x 1 Male (ISO 6149-2)
- M6 x 1 Male
- M5 x 0.8 Male

#### Process Connection
- A
- D
- G
- K
- F
- P

#### Bandwidth
- 0-1000Hz
- 0-5000Hz

#### Cable Length
- 50cm

#### Special Code
- None

### Mechanical Details

**Parts List**
- M8 x 1.00-6g
- M10 x 1.00-6g
- 3/8-24UNF

**Dimensions**
- 17 NOM
- 22.00
- 7.00

**Additional Notes**
- Ø: 1.50 Wire Lock
- Holes (3pcs.): Ø: 13.00
- A/F Hex
- Ø: 15.00 Corners

### 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**

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