ASM Series
MINIATURE HIGH TEMPERATURE PRESSURE TRANSDUCER RANGES BELOW 500 PSI

The ASM Series of high performance pressure transducers have been designed for high temperature installations on motorsport and on-vehicle automotive applications. The ASM is ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles or 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 300°F allows for installations in hot zones. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations.

Pressure ranges are available between 0-30 and 0-500 psi in either Absolute or Sealed Gauge reference. For higher ranges see our ASM High Range datasheet.

Industry standard 3-wire electrical connections allow configuration with most common ECU’s and data logging systems.

The ASM Series are race proven and can be found in many race 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 (psi)</td>
<td>30, 75, 150, 200, 300, 500</td>
</tr>
<tr>
<td>Proof Pressure (overload)</td>
<td>300% of Range</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>&gt;1000% of Range</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.08% FS Combined Linearity &amp; Hysteresis (CNLH)</td>
</tr>
<tr>
<td>Thermal Effects</td>
<td>TEB for Compensated Range &lt;±0.25%</td>
</tr>
<tr>
<td>Output</td>
<td>0.5V to 4.5V (±0.5%)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>5V (±0.5V) Ratiometric or 8-16Vdc</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-5°F to 300°F (-20°C to +150°C)</td>
</tr>
<tr>
<td>Compensated Temperature Range</td>
<td>32°F to 250°F (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>20” 26AWG, 55spec Wire + DR25 Sleeve</td>
</tr>
<tr>
<td>Process Connection (Thread Size)</td>
<td>Please see Part Number Configurator - page 2</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>1.3oz (Including Cable)</td>
</tr>
<tr>
<td>Options</td>
<td>Cable Spec, Connector Fitted, Thread Size &amp; Labelling</td>
</tr>
</tbody>
</table>

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.
PART NUMBER CONFIGURATOR

Pressure Reference
- Absolute
- Sealed Gauge

Pressure Range
- 30 psi P030
- 75 psi P075
- 150 psi P150
- 300 psi P300
- 500 psi P500

Supply Voltage
- 5V Ratiometric

Accuracy (CNLH)
- ±0.08% FS Combined Linearity & Hysteresis

Accuracy (Thermal Shift)
- TEB for Compensated Range <±0.25% FS

Electrical Connection
- 26AWG, 55spec Wire + DR25 Sleeve

Process Connection
- 3/8 Inch 24 UNF Dash 3 (SAE J514)
- M10 x 1 Male (ISO 6149-2)
- M6 x 1 Male
- M8 x 1 Male
- M5 x 0.8 male

Bandwidth
- 0-1000Hz
- 0-5000Hz

Cable Length
- 20 inches A20

Special Code
- None 000

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

MECHANICAL DETAILS

Dimensions in inches

Dimensions:
- 0.67"
- 0.87"
- 0.55" A/F HEX
- 0.06" Wire Lock Holes (3PLCS)
- 0.37"

Electrical 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>

Sensors For:
- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:
- Data Logging
- Telemetry
- Controls
- Wiring

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