The ASLT Series of combination pressure and temperature sensors have been designed for use in demanding motorsport and on-vehicle automotive testing applications. They are 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 ASLT is protected against the high vibration, shock and high temperatures found in motorsport. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations.

Pressure ranges are available between 0-15 and 0-6000 psi in either Absolute, Gauge or Sealed Gauge reference.

The industry standard 3-wire electrical connections for the pressure and 2-wire for the temperature allow configuration with most common ECU’s and data logging systems.

### Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Reference</td>
<td>Absolute, Gauge and Sealed Gauge</td>
</tr>
<tr>
<td>Standard Pressure Ranges (psi)</td>
<td>15, 75, 150, 300, 500, 750, 1500, 3000 and 6000</td>
</tr>
<tr>
<td>Proof Pressure (overload)</td>
<td>150% of Range</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>&gt;300% of Range</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5% FS Combined Linearity &amp; Hysteresis (CNLH)</td>
</tr>
<tr>
<td>Thermal Effects</td>
<td>Zero ±0.02% FS/°F (Sensitivity ±0.02% of Reading /°F)</td>
</tr>
<tr>
<td>Output</td>
<td>Press: 0.5V to 4.5V (±0.5%) Temp: NTC, 2-Wire 10KΩ at 25°C or 2-Wire PT1000</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 275°F (-20°C to +135°C)</td>
</tr>
<tr>
<td>Compensated Temperature Range</td>
<td>32°F to 250°F (0°C to +125°C)</td>
</tr>
<tr>
<td>Construction</td>
<td>Alumina, EPDM, Stainless Steel and Viton</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>20” 26AWG, 55Spec Wire + DR25 Sleeve</td>
</tr>
<tr>
<td>Process Connection</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>1.9oz (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.
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

**MECHANICAL DETAILS**

Dimensions in inches

- **26AWG 55spec Cable**
- **DR25 Sleeve**

- **M10x 1.00-6G (ISO6149-2)**
- **3/8-24UNF (SAE1926-2)**
- **1/8"-NPT (ANSI B1.20.1)**

**ELECTRICAL DETAILS**

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

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

**Pressure Range**
- 15 psi
- 75 psi
- 150 psi
- 300 psi
- 500 psi
- 750 psi
- 1500 psi
- 3000 psi
- 6000 psi

**Supply Voltage**
- 5V Ratiometric
- 8-16Vdc

**Accuracy (CNLH)**
- ±0.5% FS Combined Linearity & Hysteresis

**Accuracy (Thermal Shift)**
- Zero ±0.02% FS/°F (Sensitivity ±0.02% of Reading/°F)

**Process Connection**
- 1/8 Inch NPT Male (ANSI B1.20.1)
- M10 x 1 Male (ISO 6149-2)
- 3/8 Inch 24 UNF - No Cone (SAE J1926-2)

**O-Ring Material (Internal)**
- EPDM
- Viton

**Temperature Sensor Type**
- NTC, 2-Wire 10KΩ@25°C
- PT1000, 2-Wire ClassA

**Cable Length**
- 20 inches

**Special Code**
- None

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

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

**Contact Us**

KA Sensors
Division of PMC Engineering LLC
11 Old Sugar Hollow Rd
Danbury, CT 06810
USA
Tel: 203-792-8686
Fax: 203-743-2051

sales@pmc1.com
www.kasensors.com