The NPT2 Series of high performance temperature sensors are designed to measure the temperatures of all types of air and gas in demanding motorsport and on-vehicle automotive applications.

The sensing element can be either a PT1000 or an NTC Thermistor. Calibration of each is well defined and can be installed into most common ECUs and data logging systems.

Construction is either brass or stainless steel, both with a heat insulating PEEK ISOTIP™ which insulates the sensing element from surrounding heat soak. Supplied with standard motorsports cable and sleeve this will protect from the harsh environments around the vehicle.

The NPT2 Series are race proven in many Formula around the world and offer a reliable and rugged solution for professional engineers.

### Technical Specifications

<table>
<thead>
<tr>
<th>Ranges (FS)</th>
<th>-20°F to +300°F (-30°C to +150°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>&lt;±1.8°F (&lt;±1°C)</td>
</tr>
<tr>
<td>Response Time</td>
<td>&lt;10 Seconds</td>
</tr>
<tr>
<td>Seal</td>
<td>N/A</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>Please See Table on Right</td>
</tr>
<tr>
<td>Construction</td>
<td>Brass or Stainless Steel</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>12&quot;, 26AWG 55spec + DR25 Sleeve</td>
</tr>
<tr>
<td>Mechanical Connection</td>
<td>1/8&quot; NPT Male (ANSI B1.20.1)</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP67</td>
</tr>
<tr>
<td>Vibration</td>
<td>Mil-Std-810C, Curve L, 20G</td>
</tr>
<tr>
<td>Weight (Excluding Cable)</td>
<td>Brass: 0.35oz Stainless Steel: 0.35oz</td>
</tr>
<tr>
<td>Options</td>
<td>Cable Spec, Connector and Labelling</td>
</tr>
</tbody>
</table>

#### Ranges (FS)

<table>
<thead>
<tr>
<th>Temp °C</th>
<th>NTC3Ω</th>
<th>PT1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>-30</td>
<td>53100.000</td>
<td>882.200</td>
</tr>
<tr>
<td>-20</td>
<td>29121.000</td>
<td>921.600</td>
</tr>
<tr>
<td>-10</td>
<td>16599.000</td>
<td>960.900</td>
</tr>
<tr>
<td>0</td>
<td>9795.000</td>
<td>1000.000</td>
</tr>
<tr>
<td>10</td>
<td>5970.000</td>
<td>1039.000</td>
</tr>
<tr>
<td>20</td>
<td>3747.000</td>
<td>1077.900</td>
</tr>
<tr>
<td>25</td>
<td>3000.000</td>
<td>1097.300</td>
</tr>
<tr>
<td>30</td>
<td>2417.100</td>
<td>1116.700</td>
</tr>
<tr>
<td>40</td>
<td>1598.100</td>
<td>1155.400</td>
</tr>
<tr>
<td>50</td>
<td>1080.900</td>
<td>1194.000</td>
</tr>
<tr>
<td>60</td>
<td>746.400</td>
<td>1232.400</td>
</tr>
<tr>
<td>70</td>
<td>525.600</td>
<td>1270.800</td>
</tr>
<tr>
<td>80</td>
<td>376.500</td>
<td>1309.000</td>
</tr>
<tr>
<td>90</td>
<td>274.590</td>
<td>1347.100</td>
</tr>
<tr>
<td>100</td>
<td>203.460</td>
<td>1385.100</td>
</tr>
<tr>
<td>110</td>
<td>153.090</td>
<td>1422.900</td>
</tr>
<tr>
<td>120</td>
<td>116.790</td>
<td>1460.700</td>
</tr>
<tr>
<td>130</td>
<td>90.279</td>
<td>1498.300</td>
</tr>
<tr>
<td>140</td>
<td>70.581</td>
<td>1535.800</td>
</tr>
<tr>
<td>150</td>
<td>55.791</td>
<td>1573.300</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.

**PART NUMBER CONFIGURATOR**

<table>
<thead>
<tr>
<th>Construction</th>
<th>Brass with PEEK ISOTIP</th>
<th>Stainless Steel with PEEK ISOTIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>NTC, 2-Wire 3KΩ@25°C</td>
<td>PT1000, 2-Wire Class A</td>
</tr>
<tr>
<td>Cable Length</td>
<td>12&quot;, 55spec, 26 AWG Cable + DR25 Sleeve</td>
<td></td>
</tr>
<tr>
<td>Special Code</td>
<td>None</td>
<td>000</td>
</tr>
</tbody>
</table>

**MECHANICAL DETAILS**

Dimensions in inches

- 0.39”
- 1.06”
- 0.16”
- Ø0.08” (x4)
- Ø0.24”
- 1/8” NPT Male
- 0.51” A/F HEX

**ELECTRICAL DETAILS**

<table>
<thead>
<tr>
<th>Output</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</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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