

## ASHT SERIES HIGH PERFORMANCE COMBINATION PRESSURE & TEMPERATURE TRANSDUCER - UP TO 6000 PSI

The ASHT Series feature both pressure and temperature sensors within a single transducer package. These high accuracy transducers have been designed for use in demanding motorsport and on-vehicle automotive testing industries. They are ideal for high precision data acquisition or control systems. The ASHT 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 ASHT is protected against the high vibration, shock and high temperatures found in harsh environments. 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 >500 psi and 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 integration with most common ECU's and data logging systems. Also available with a fitted Hermetic Connector option. The ASHT Series are race proven in many formula around the world. For OEM applications we have many options available to customize these transducers.

### TECHNICAL SPECIFICATIONS

<b>Pressure Reference</b>	Absolute, Gauge and Sealed Gauge
<b>Standard Pressure Ranges (psi)</b>	750, 1500, 3000, and 6000 <i>Any range &gt;500 psi can be specified</i> <i>For ranges below 500 psi see ASHT Low Range datasheet</i>
<b>Proof Pressure (overload)</b>	150% of range
<b>Burst Pressure</b>	>300% of range
<b>Accuracy</b>	±0.2% FS combined linearity & hysteresis (CNLH)
<b>Thermal Effects</b>	Zero ±0.005% FS/°F (Sensitivity ±0.005% of reading /°F)
<b>Outputs</b>	Pressure: 0.5V to 4.5V (±0.5%) Temperature: NTC, 2-wire 10KΩ@25°C or 2-wire PT1000
<b>Power Supply</b>	5V (±0.5V) Ratiometric or 8-16Vdc (<20mA)
<b>Operating Temperature Range</b>	-5°F to 300°F (-20°C to +150°C)
<b>Compensated Temperature Range</b>	32°F to 250°F (0°C to +125°C)
<b>Construction</b>	Stainless Steel
<b>Electrical Connection</b>	20", 26AWG 55spec Wire + DR25 Sleeve or Connector or Hermetic Connector. 8STA1-Y02-05PN170
<b>Process Connection (Thread Size)</b>	Please see Part Number Configurator - Page 2
<b>Protection Class</b>	IP67 (Cable Option), Hermetic Seal (Connector Option)
<b>EMC Protection &amp; Vibration</b>	EN 50082-1 and Mil-Std-810C, curve L, 20G
<b>Weight</b>	1.44oz (Cable Option), 1.16oz (Connector Option)
<b>Options</b>	Cable Spec, Connector Fitted, Thread Size & Labelling

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

## Sensors For Motorsport

### Features

- Built-in Temp. Sensor
- Cable or Connector
- >500 to 6000 psi
- 300°F Operation
- ±0.2% Accuracy

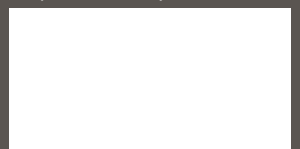
### Applications

- Coolant
- Brakes
- Water
- Boost
- Fuel
- Oil

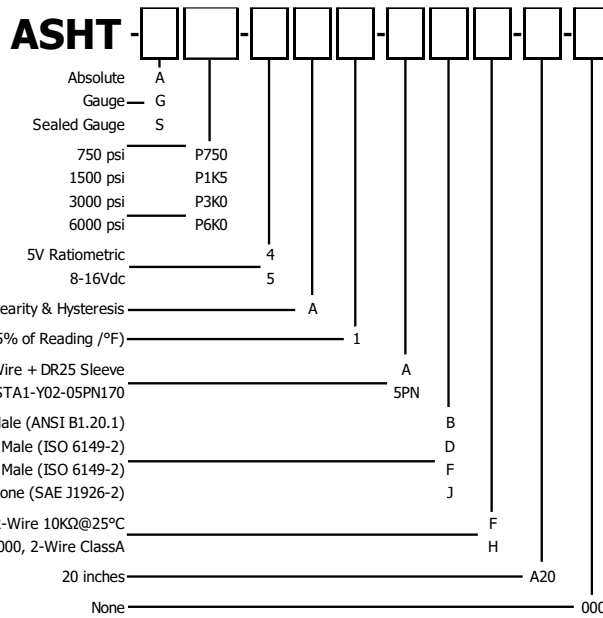
sales@pmc1.com

www.kasensors.com

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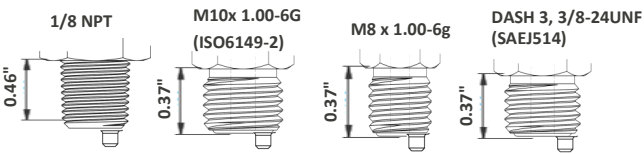
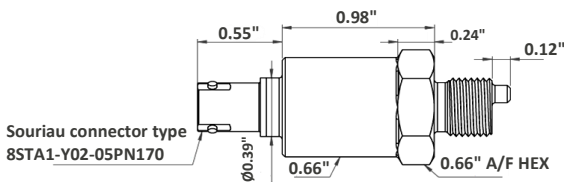
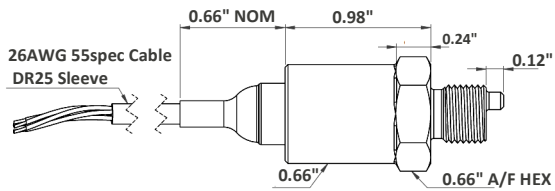
# PART NUMBER CONFIGURATOR



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

## MECHANICAL & TEMPERATURE DETAILS

Dimensions in inches



	NTC10KΩ	PT1000
<b>Temp °F</b>	<b>Output Ω</b>	<b>Output Ω</b>
-25	120370.00	882.200
-5	71668.00	921.600
15	44087.00	960.900
32	27936.00	1000.000
50	18187.00	1039.000
70	12136.00	1077.900
75	10000.00	1097.300
85	8284.50	1116.700
105	5774.20	1155.400
125	4120.60	1194.000
140	2967.30	1232.400
160	2181.70	1270.800
175	1628.80	1309.000
195	1233.50	1347.100
215	946.59	1385.100
230	735.47	1422.900
250	578.10	1460.700
265	459.36	1498.300
285	368.75	1535.800
300	298.86	1573.300

## ELECTRICAL DETAILS

Cable Option				
+Ve Supply	0V Supply	Output (P)	Output (T)	Output (T)
Red	Black	White	Blue	Green

Hermetic Connector Option				
+Ve Supply	0V Supply	Output (P)	Output (T)	Output (T)
Pin 1	Pin 2	Pin 3	Pin 4	Pin 5

Sense  
Analyze  
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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