

ASHT Series HIGH PERFORMANCE PRESSURE & TEMPERATURE TRANSDUCER - UP TO 500 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 a wide range of test, measurement and operational applications where high performance precision pressure measurement are required. See list of typical applications alongside. The ASHT can also be installed directly onto vehicles in both automotive and aerospace applications.

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 0-15 psi and 0-500 psi in either Absolute, Gauge or Sealed Gauge reference.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge		
Standard Pressure Ranges (psi)	15, 30, 75, 150, 250, 300, 500 For ranges above 500 psi see ASHT high range datasheet		
Proof Pressure (overload)	300% of range		
Burst Pressure	>1000% of range		
Accuracy	±0.08% FS combined linearity & hysteresis (CNLH)		
Thermal Effects	<±0.25% FS TEB within Compensated Range		
Outputs	Pressure: 0.5V to 4.5V (±0.5%) Temperature: NTC, 2-wire 10KΩ@25°C or 2-wire PT1000		
Power Supply	5V (±0.5V) Ratiometric or 8-16Vdc (<20mA)		
Operating Temperature Range	-5°F to 300°F (-20°C to +150°C)		
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)		
Construction	Stainless Steel		
Electrical Connection	20", 26AWG 55spec Wire + DR25 Sleeve or Connector or Hermetic Connector. 8STA1-Y02-05PN170		
Process Connection (Thread Size)	Please see Part Number Configurator - Page 2		
Protection Class	IP67 (Cable Option), Hermetic Seal (Connector Option)		
EMC Protection & Vibration	EN 50082-1 and Mil-Std-810C, curve L, 20G		
Weight	1.44oz (Cable Option), 1.16oz (Connector Option)		
Options	Cable Spec, Connector Fitted, Thread Size & Labelling		

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

Precision Sensors

Test Measurement OEM

Features

- Built-in Temp. Sensor
- Cable or Connector
- 0-15 to 0-500 psi
- 300°F Operation
- ±0.08% Accuracy

Applications

- Engine Test
 - Automotive
 - Aviation
 - Dynamometers
- Satellite Launch Vehicle
 - Propellants
 - Chamber Pressure
 - Fuel Level
- Flight Test
 - Hudraulic Systems
 - Flight Control Systems
 - HVAC Systems
- Drone/UAV/AUV/ROV

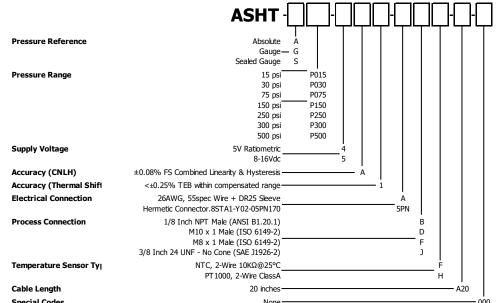
 Hydraulic Systems
 Avionics
- Manufacturing
- Motorsport

sales@pmc1.com www.kasensors.com Represented by:

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

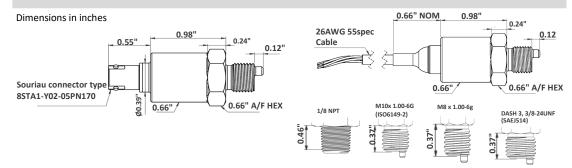
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PART NUMBER CONFIGURATOR



 $\frac{\text{Special Codes}}{\text{The KA configuration tool is used to specify a standard KA Sensor, other options are available.}}$

MECHANICAL **D**ETAILS



TEMPERATURE DETAILS

	ΝΤC10ΚΩ	PT1000	
Temp °F	Output Ω	Output Ω	
-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	

	ΝΤC10ΚΩ	PT1000	
Temp °F	Output Ω	Output Ω	
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	

	ΝΤC10ΚΩ	PT1000
Temp °F	Output Ω	Output Ω
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	OV Supply	Output (P)	Output (T)	Output (T)
Red	Black	White	Blue	Green

Hermetic connector Option				
+Ve Supply	OV Supply	Output (P)	Output (T)	Output (T)
Pin 1	Pin 2	Pin 3	Pin 4	Pin 5

Precision Sensors

Test Measurement OEM

Sensors For:

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

Services For:

- OEM
- On-Time Delivery
- Custom Engineering
- Application Engineering

Contact Us

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