

Junia II

ASHT SERIES HIGH PERFORMANCE PRESSURE & TEMPERATURE TRANSDUCER

The ASHT Series of High Performance Pressure and Temperature Transducers have been designed for high temperature installations in motorsport and automotive applications; 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 ASHT is protected against the high vibration, shock and high temperatures found in motorsport. Continuous operation up to 150°C allows for installations in hot zones. With a modular construction and programmable amplifier, this provides a fast delivery time for standard and custom configurations.

Pressure ranges are available between 2 to 400 Bar in either Absolute, Gauge or Sealed Gauge reference. Industry standard 3-wire electrical connections for the Pressure signal and 2-wires for the Temperature signal allow configuration with most common ECU's and data logging systems. The ASHT Series is race proven in many formulae around the world, offering a cost effective solution for professional engineers.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge		
Standard Pressure Ranges (Bar)	Low Range: 2, 5, 10, 20 & 50 <i>High Range: 100, 250 & 400</i>		
Proof Pressure (Over range)	300% of Range / 150% of Range		
Burst Pressure	>1000% of Range / >300% of Range		
Accuracy	±0.08% FS Combined Linearity & Hysteresis (CNLH) ±0.2% FS Combined Linearity & Hysteresis (CNLH)		
Thermal Accuracy	<±0.25% FS TEB within Compensated Range Zero ±0.01% FS/°C (Sensitivity ±0.01% of Reading /°C)		
Outputs	Press: 0.5V to 4.5V (±0.5%) Temp: NTC, 2-Wire 10KΩ @ 25°C or 2-Wire PT1000		
Supply	5V (±0.5V) Ratiometric or 8-16V d.c.		
Operating Temperature Range	-40°C to +150°C		
Compensated Temperature Range	0°C to +125°C		
Construction	Stainless Steel		
Electrical Connection	26AWG, 55 Spec Wire + DR25 Sleeve Or, Hermetic Connector; 8STA1-Y02-05PN170		
Process Connection (Thread Size)	Please see Part Number Configurator		
Protection Class	IP67 (Cable Option), Hermetic Seal (Connector Option)		
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G		
Weight	41g (Cable Option), 33g (Connector Option)		

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
- 2 to 400 Bar Range
- 150°C Operation
- High Accuracy

Applications

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

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PART NUMBER CONFIGURATOR

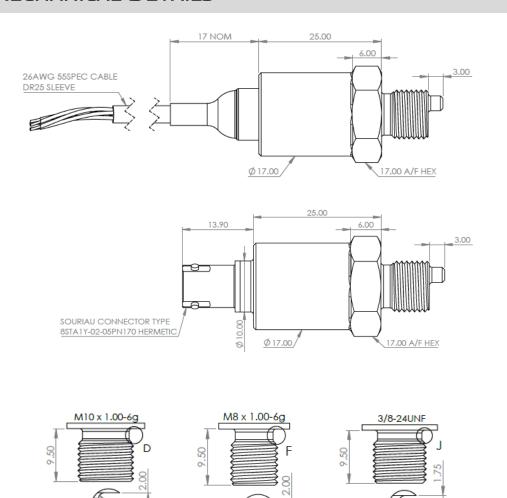
ASHT Pressure Reference Absolute Gauge -G Sealed Gauge S Pressure Range 2 Bar 2000 5 Bar 5000 10 Bar 1002 20 Bar 2002 50 Bar 5002 100 Bar 1003 250 Bar 2503 400 Bar 4003 Supply Voltage 5V Ratiometric 8-16V **Process Connection** M10 x 1 Male (ISO 6149-2) D M8 x 1 Male (ISO 6149-2) 3/8 Inch 24 UNF - No Cone (SAE J1926-2) 1 Temperature Sensor Type NTC, 2-Wire 10KΩ@25°C PT1000, 2-Wire ClassA Н Special Code 000 None 8STA1-Y02-05PN170 Hermetic Connection 864

Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

MECHANICAL DETAILS



Contact us

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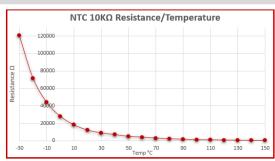
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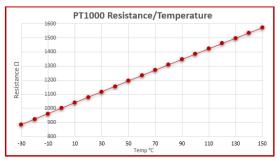
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TEMPERATURE DETAILS

	ΝΤС 10ΚΩ	PT1000
Temp °C	Output Ω	Output Ω
-30	120370.00	882.20
-20	71668.00	921.60
-10	44087.00	960.90
0	27936.00	1000.00
10	18187.00	1039.00
20	12136.00	1077.90
25	10000.00	1097.30
30	8284.50	1116.70
40	5774.20	1155.40
50	4120.60	1194.00
60	2967.30	1232.40
70	2181.70	1270.80
80	1628.80	1309.00
90	1233.50	1347.10
100	946.59	1385.10
110	735.47	1422.90
120	578.10	1460.70
130	459.36	1498.30
140	368.75	1535.80
150	298.86	1573.30

NTC $10K\Omega$ / PT1000 Temperature Graphs





CONNECTION DETAILS

Cable Option						
+Ve Supply	0V 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		

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