

ASHT SERIES HIGH PERFORMANCE PRESSURE & TEMPERATURE TRANSDUCER

The ASHT Series feature both Pressure and Temperature Sensors within a single transducer package. These High Accuracy Transducers are ideal for high precision data acquisition or control systems found on Automotive and Motorsport 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.

Using a modular construction and programmable amplifier provides a fast delivery time for standard and custom configurations.

Pressure ranges are available between 50 and 400 Bar 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. Also available with a fitted Hermetic Connector option.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge	
Standard Pressure Ranges (Bar)	50, 100, 200, 400	
Proof Pressure (Over range)	150% of Range	
Burst Pressure	>300% of Range	
Accuracy	±0.2% FS Combined Linearity & Hysteresis (CNLH)	
Thermal Accuracy	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 8-16Vdc (<20mA)	
Operating Temperature Range	-20°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)	
Options	Cable Spec, Connector Fitted, Labelling & Thread Size	

 $KA \ Sensors \ adopts \ a \ continuous \ development \ program \ which \ sometimes \ necessitates \ specification \ changes \ without \ notice.$

Sensors For Motorsport

Features

- Built-In Temp. Sensor
- Cable or Connector
- 50 to 400 Bar Range
- 150°C Operation
- ±0.2% Accuracy

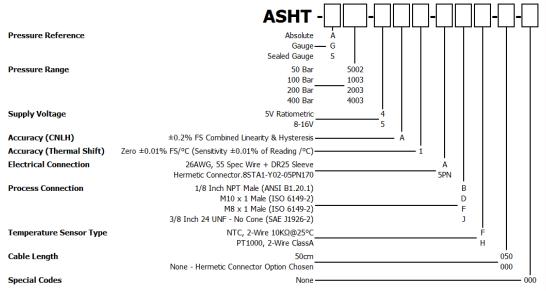
Applications

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

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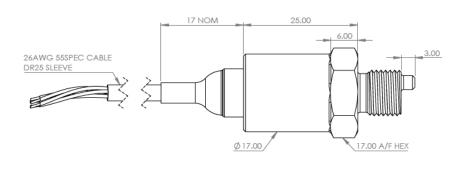
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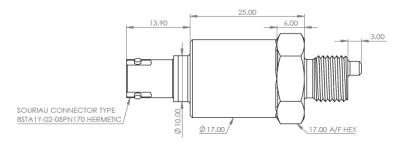
PART NUMBER CONFIGURATOR

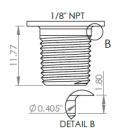


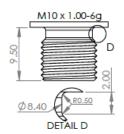
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

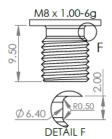
MECHANICAL DETAILS

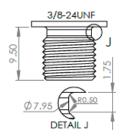












Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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TEMPERATURE DETAILS

	ΝΤC10ΚΩ	ΝΤC10ΚΩ ΡΤ1000	
Temp °C	Output Ω	Output Ω	
-30	120370.00	882.200	
-20	71668.00	921.600	
-10	44087.00	960.900	
0	27936.00	1000.000	
10	18187.00	1039.000	
20	12136.00	1077.900	
25	10000.00	1097.300	
30	8284.50	1116.700	
40	5774.20	1155.400	
50	4120.60	1194.000	
60	2967.30	1232.400	
70	2181.70	1270.800	
80	1628.80	1309.000	
90	1233.50	1347.100	
100	946.59	1385.100	
110	735.47	1422.900	
120	578.10	1460.700	
130	459.36	1498.300	
140	368.75	1535.800	
150	298.86	1573.300	

CONNECTION DETAILS

Cable Option						
+Ve Supply	OV Supply	Output (P)	Output (T)	Output (T)		
Red	Black	White	Blue	Green		
Harmotic Connector Ontion						

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

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