

ASHT SERIES HIGH PERFORMANCE PRESSURE & TEMPERATURE TRANSDUCER (LOW RANGE)

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 1 and 35 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)	1, 2, 5, 10, 15, 20, 35		
Proof Pressure (Over range)	300% of Range		
Burst Pressure	>1000% of Range		
Accuracy	±0.08% FS Combined Linearity & Hysteresis (CNLH)		
Thermal Accuracy (Total Error Band)	<±0.25% FS TEB within Compensated Range		
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
- 1 to 35 Bar Range
- 150°C Operation
- ±0.08% Accuracy

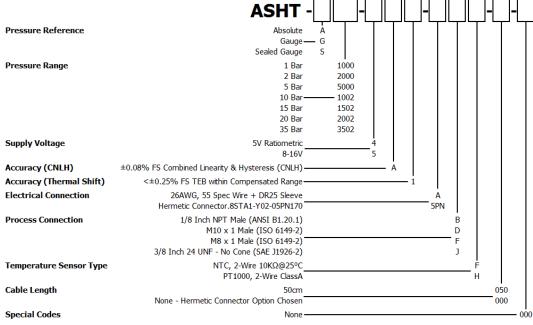
Applications

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

kasensors.com sales@kasensors.com +44(0)1476 568057

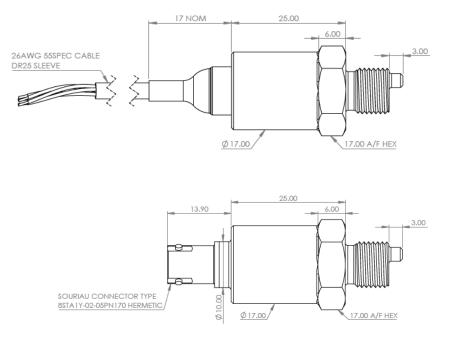
ASHT LOW 10.19

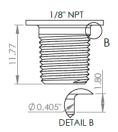
PART NUMBER CONFIGURATOR

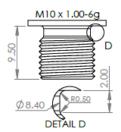


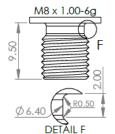
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

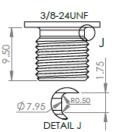
MECHANICAL DETAILS











Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd Unit 14 & 15

The Old Malthouse

Springfield Road

Grantham

Lincolnshire

United Kingdom

NG31 7BG

kasensors.com sales@kasensors.com +44(0)1476 568057

ASHT LOW 10.19

TEMPERATURE DETAILS

	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	

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

Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd Unit 14 & 15

The Old Malthouse

Springfield Road

Grantham

Lincolnshire

United Kingdom

NG31 7BG

kasensors.com sales@kasensors.com +44(0)1476 568057

ASHT LOW 10.19