

ASMT SERIES MINIATURE PRESSURE & TEMPERATURE TRANSDUCER



The ASMT Series feature both Pressure and Temperature Sensors within a single transducer package. These High Temperature 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 ASMT 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 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.

Sensors For Motorsport

Features

- Built-In Temp. Sensor
- Miniature Size
- 50 to 400 Bar Range
- 150°C Operation
- Amplified Output
- $\pm 0.2\%$ Accuracy

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute and Sealed Gauge
Standard Pressure Ranges (Bar)	50, 100, 200, 400
Proof Pressure (Over range)	150% of Range
Burst Pressure	>300% of Range
Accuracy	$\pm 0.2\%$ FS Combined Linearity & Hysteresis (CNLH)
Thermal Accuracy	Zero $\pm 0.01\%$ FS/°C (Sensitivity $\pm 0.01\%$ of Reading /°C)
Outputs	Press: 0.5V to 4.5V ($\pm 0.5\%$) Temp: NTC, 2-Wire 10K Ω @25°C or 2-Wire PT1000
Supply	5V ($\pm 0.5V$) 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
Process Connection (Thread Size)	Please see Part Number Configurator
Protection Class	IP67
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	29g (Including Cable)
Options	Cable Spec, Connector Fitted, Labelling & Thread Size

Ka Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.

Applications

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

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

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PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

Supply Voltage

Accuracy (CNLH)

Accuracy (Thermal Shift)

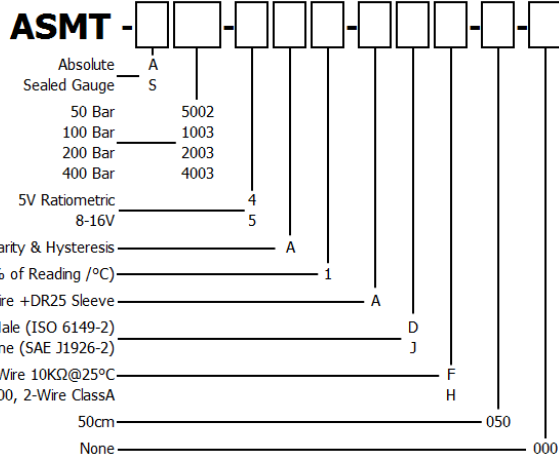
Electrical Connection

Process Connection

Temperature Sensor Type

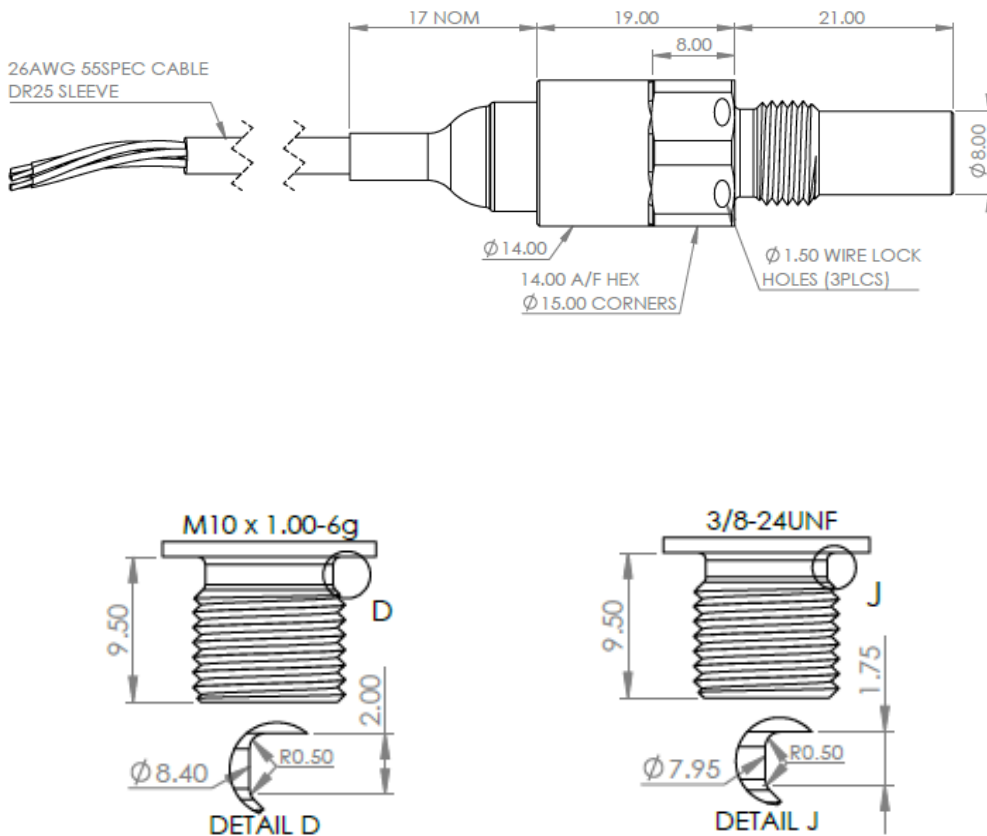
Cable Length

Special Code



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

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sales@kasensors.com
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TEMPERATURE DETAILS

	NTC10K Ω	PT1000
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

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

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