

ASMT SERIES MINIATURE PRESSURE & TEMPERATURE TRANSDUCER



The ASMT Series of High Performance Pressure Transducers have been designed for High Temperature installations in automotive applications; ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles, as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASMT is protected against the high vibration, shock and high temperatures found in motorsport. With a modular construction and programmable amplifier, this provides a fast delivery time for standard and custom configurations. Continuous operation up to 150°C allows for installations in hot zones. Pressure ranges are available between 10 to 200 Bar in either Absolute or Sealed Gauge reference.

Industry standard 3-wire electrical connections for the Pressure signal and 2-wire for the Temperature signal allow configuration with most common ECU's and data logging systems. The ASMT Series are race proven and can be found in many formula around the world.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute and Sealed Gauge
Standard Pressure Ranges (Bar)	10, 15, 35, 50, 100, 200
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
Operating Temperature Range	-20°C to +150°C
Compensated Temperature Range	0°C to +125°C
Construction	Stainless Steel
Electrical Connection	50cm 26AWG, 55Spec 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, Thread Size & Labelling

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

Sensors For Motorsport

Features

- Built-In Temp. Sensor
- Miniature Size
- 10 to 200 Bar Range
- 150°C Operation
- Amplified Output
- ±0.2% Accuracy

Applications

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

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ASMT 10.18

PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

Supply Voltage

Accuracy (CNLH)

Accuracy (Thermal Shift)

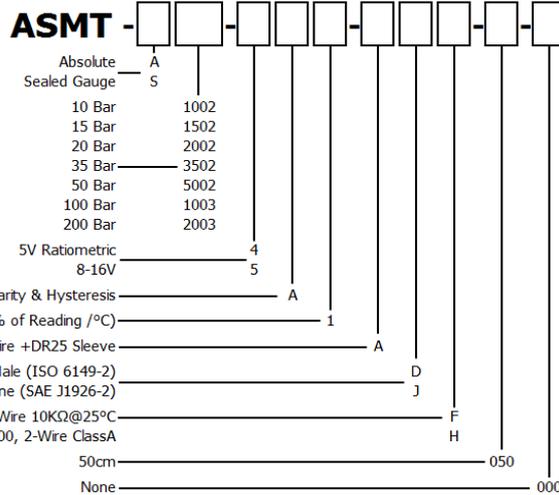
Electrical Connection

Process Connection

Temperature Sensor Type

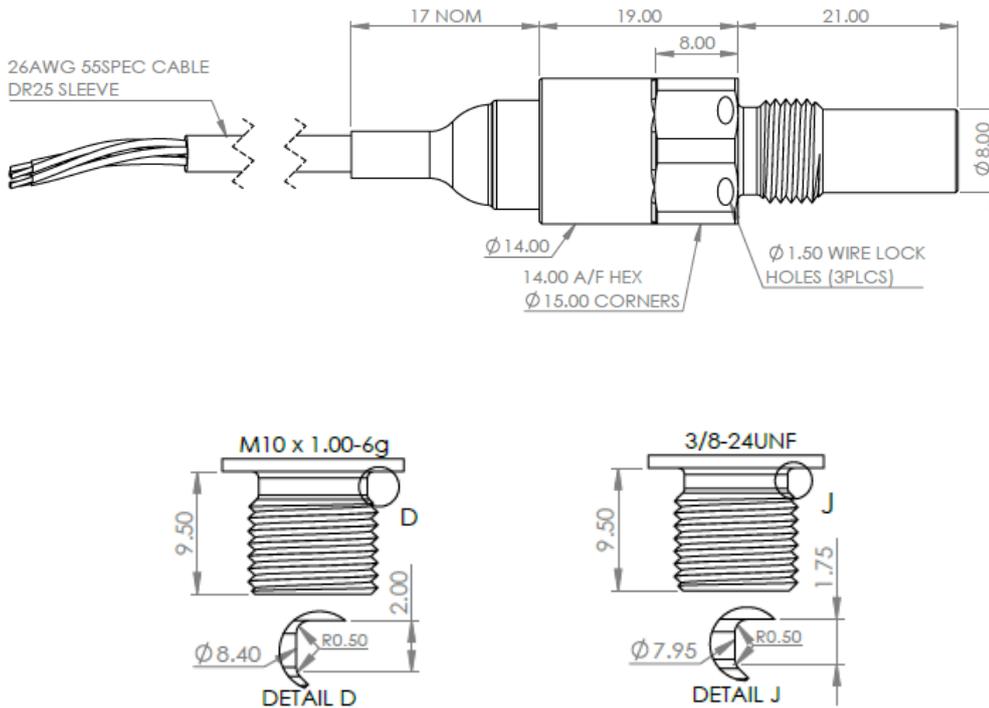
Cable Length

Special Code



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

MECHANICAL DETAILS



CONNECTION DETAILS

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

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

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