



## ASMC SERIES MINIATURE PRESSURE & TEMPERATURE TRANSDUCER

The ASMC 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, as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASMC 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 10 to 200 Bar in either Absolute 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 ASMC Series are race proven in many formula around the world.

### TECHNICAL SPECIFICATIONS

<b>Pressure Reference</b>	Absolute and Sealed Gauge
<b>Standard Pressure Ranges (Bar)</b>	10, 15, 20, 35, 50, 100, 200
<b>Proof Pressure (Over range)</b>	150% of Range
<b>Burst Pressure</b>	>300% of Range
<b>Accuracy</b>	±0.2% FS Combined Linearity & Hysteresis (CNLH)
<b>Thermal Accuracy</b>	Zero ±0.01% FS/°C (Sensitivity ±0.01% of Reading /°C)
<b>Outputs</b>	Press: 0.5 to 4.5V (±0.5%) Temp: NTC, 2-Wire 10KΩ@25°C or 2-Wire PT1000
<b>Supply</b>	5V (±0.5V) Ratiometric or 8-16Vdc
<b>Operating Temperature Range</b>	-20°C to +150°C
<b>Compensated Temperature Range</b>	0°C to +125°C
<b>Construction</b>	Stainless Steel
<b>Electrical Connection</b>	50cm 26AWG, 55Spec Wire + DR25 Sleeve
<b>Process Connection (Thread Size)</b>	Please see Part Number Configurator
<b>Protection Class</b>	IP67
<b>EMC Protection &amp; Vibration</b>	EN E50082-1 and Mil-Std-810C, Curve L, 20G
<b>Weight</b>	29g (Including Cable)
<b>Options</b>	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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# PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

Supply Voltage

Accuracy (CNLH)

Accuracy (Thermal Shift)

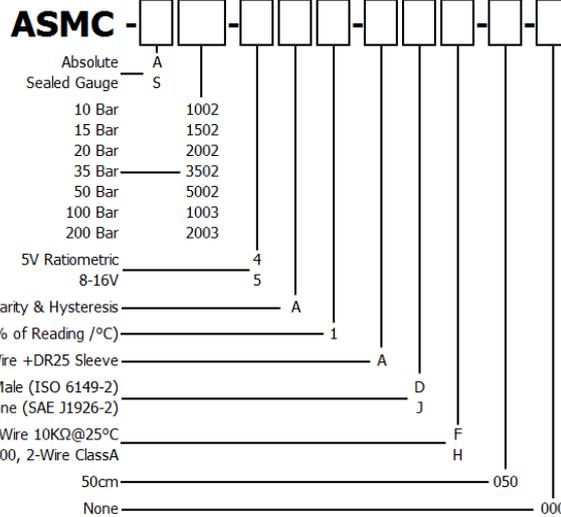
Electrical Connection

Process Connection

Temperature Sensor Type

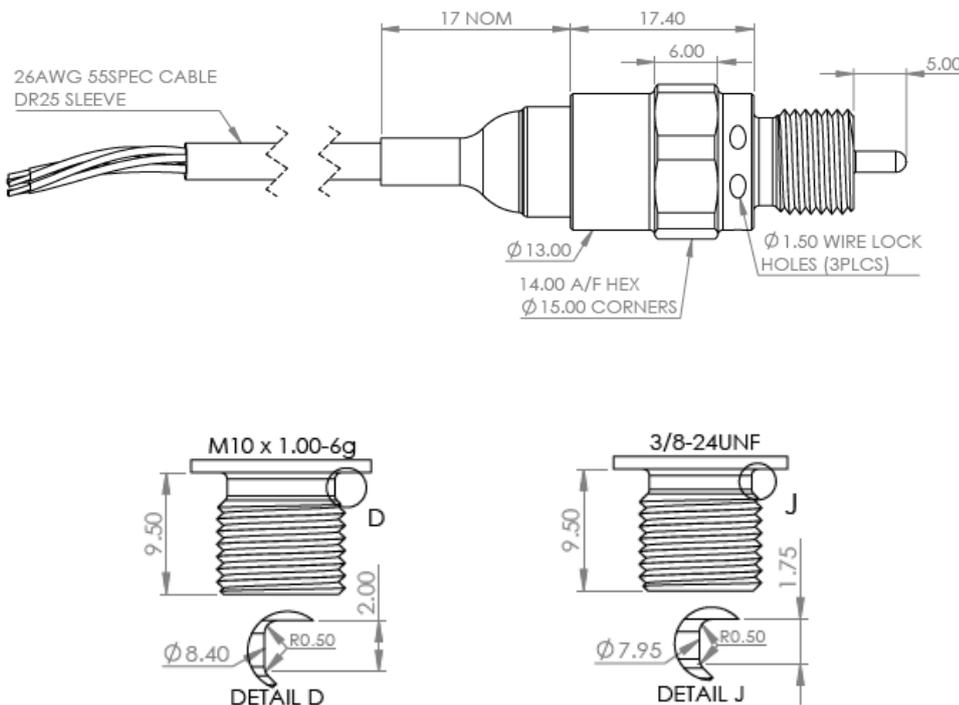
Cable Length

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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