

ASLT SERIES STANDARD PRESSURE & TEMPERATURE TRANSDUCER

The ASLT Series of combination pressure and temperature sensors have been designed for the detection of fluid and air pressures in demanding motorsport and on-vehicle automotive testing applications. They are ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles or as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASLT is protected against the high vibration, shock and high temperatures found in motorsport. The modular construction and programmable amplifier provide a large stock available of standard parts for fast delivery.

Pressure ranges are available between 30 and 3000 psi 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.

The ASLT are race proven in many formula around the world, offering a cost effective solution for professional engineers.

Sensors For Motorsport

Features

- Built-In Temp. Sensor
- 30 to 3000 psi
- Amplified Output
- Rugged Construction
- ±0.5% Accuracy

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge
Standard Pressure Ranges (psi)	30, 150, 500, 1500 and 3000
Proof Pressure (overload)	150% of Range
Burst Pressure	>300% of Range
Accuracy	±0.5% FS Combined Linearity & Hysteresis (CNLH)
Thermal Effects	Zero ±0.02% FS/°F (Sensitivity ±0.02% of Reading /°F)
Output	Press: 0.5V to 4.5V (±0.5%) Temp: NTC, 2-Wire 10KΩ@25°C or 2-Wire PT1000
Power Supply	5V to 40Vdc (Less than 20mA consumption)
Operating Temperature Range	-5°F to 275°F (-20°C to +135°C)
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)
Construction	Stainless Steel with either EPDM or Viton internal O-rings
Electrical Connection	20" 26AWG, 55Spec Wire + DR25 Sleeve
Process Connection	Please see Part Number Configurator - page 2
Protection Class	IP67
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	1.9oz (Including Cable)

Applications

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

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 Represented by:



PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

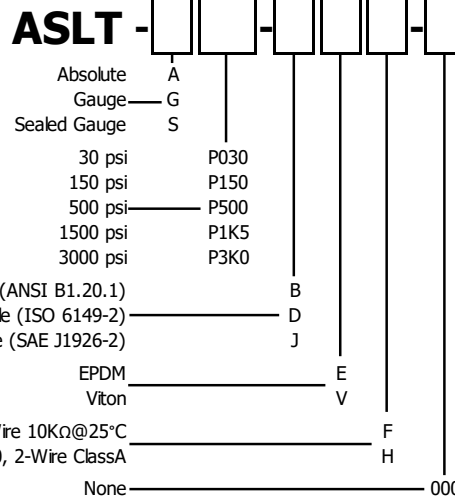
Process Connection

O-Ring Material (Internal)

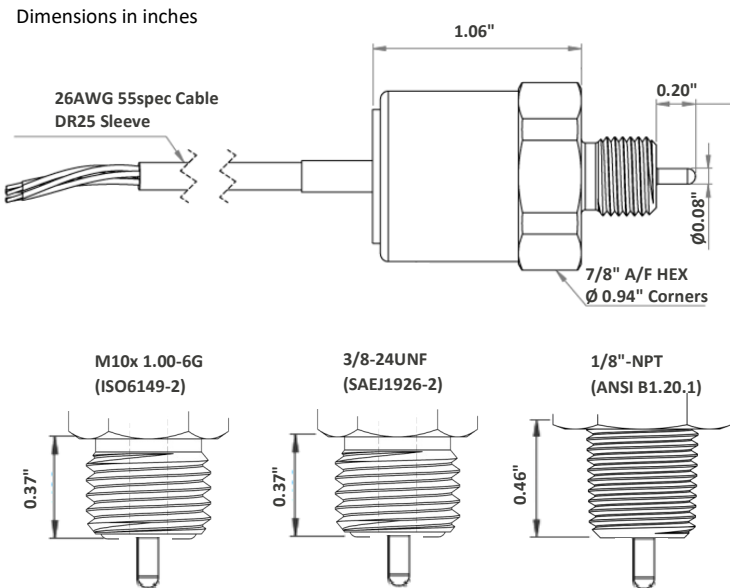
Temperature Sensor Type

Special Code

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



MECHANICAL DETAILS



	NTC10K Ω	PT1000
Temp °F	Output Ω	Output Ω
-25	120370.00	882.200
-5	71668.00	921.600
15	44087.00	960.900
32	27936.00	1000.000
50	18187.00	1039.000
70	12136.00	1077.900
75	10000.00	1097.300
85	8284.50	1116.700
105	5774.20	1155.400
125	4120.60	1194.000
140	2967.30	1232.400
160	2181.70	1270.800
175	1628.80	1309.000
195	1233.50	1347.100
215	946.59	1385.100
230	735.47	1422.900
250	578.10	1460.700
265	459.36	1498.300
285	368.75	1535.800
300	298.86	1573.300

ELECTRICAL DETAILS

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

Sense
Analyze
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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