

ASLT SERIES STANDARD PRESSURE & TEMPERATURE TRANSDUCER



Sensors For Motorsport

Features

- Built-In Temp. Sensor
- Rugged Construction
- 2 to 200 Bar Range
- Amplified Output
- $\pm 0.5\%$ Accuracy

The ASLT Series of Standard Pressure and Temperature Sensors have been designed for the detection of fluid and air pressures in demanding motorsport and automotive applications; 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. With a modular construction and programmable amplifier, this provides a large stock available of standard parts for fast delivery.

Pressure ranges are available between 2 to 200 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. The ASLT Series is race proven in many formula around the world, offering a cost effective solution for professional engineers.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute or Sealed Gauge
Standard Pressure Ranges (Bar)	2, 10, 35, 100 & 200
Proof Pressure (Over range)	150% of Range
Burst Pressure	>300% of Range
Accuracy	$\pm 0.5\%$ FS Combined Linearity & Hysteresis (CNLH)
Thermal Accuracy	Zero $\pm 0.04\%$ FS/ $^{\circ}\text{C}$ (Sensitivity $\pm 0.04\%$ of Reading / $^{\circ}\text{C}$)
Outputs	Press: 0.5V to 4.5V ($\pm 0.5\%$) Temp: NTC, 2-Wire 10K Ω @25 $^{\circ}\text{C}$ or 2-Wire PT1000
Supply	5V - 40V d.c. (Less than 20mA consumption)
Operating Temperature Range	-20 $^{\circ}\text{C}$ to +135 $^{\circ}\text{C}$
Compensated Temperature Range	0 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$
Construction	Stainless Steel with either EPDM or Viton internal O-rings
Electrical Connection	100cm 26AWG, 55Spec Wire + DR25 Sleeve
Process Connection (Thread Size)	Please see Part Number Configurator
Protection Class	IP67. Dust tight & water immersion to 1m for 30mins
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	54g (Including Cable)

Applications

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

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

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

PART NUMBER CONFIGURATOR

Pressure Reference

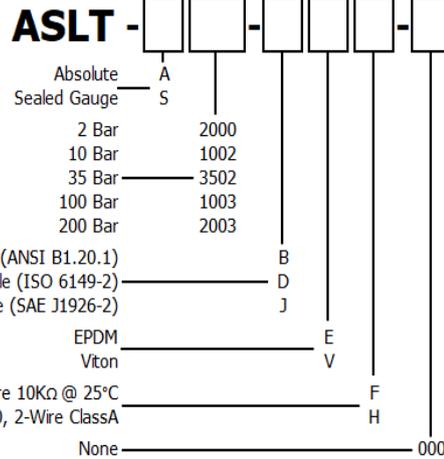
Pressure Range

Process Connection

O-Ring Material (Internal)

Temperature Sensor Type

Special Code

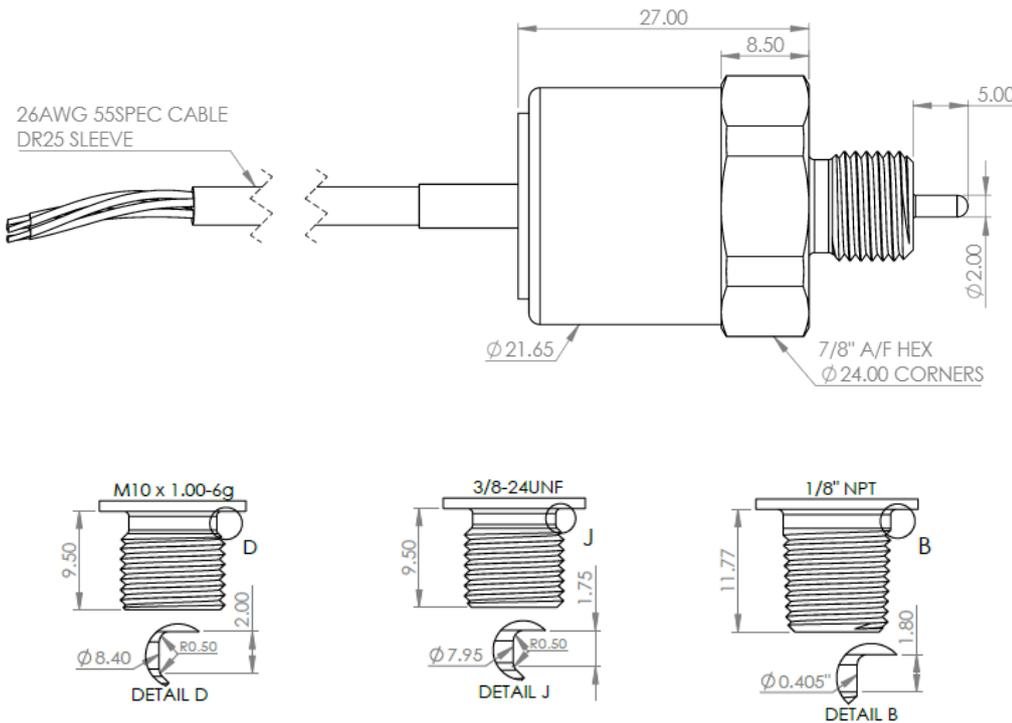


*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

MECHANICAL DETAILS



Contact us

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CONNECTION DETAILS

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

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TEMPERATURE DETAILS

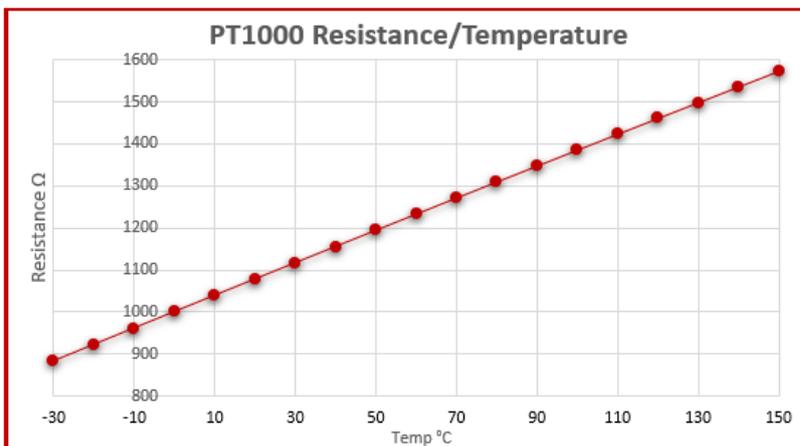
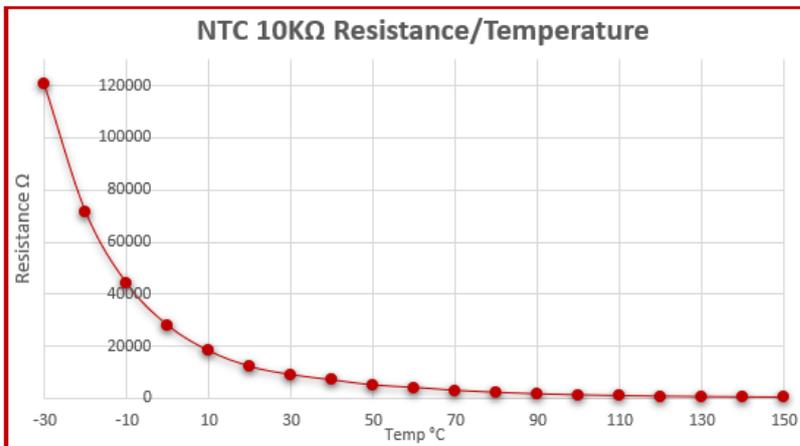
	NTC 10K Ω	PT1000
Temp $^{\circ}\text{C}$	Output Ω	Output Ω
-30	120370.00	882.20
-20	71668.00	921.60
-10	44087.00	960.90
0	27936.00	1000.00
10	18187.00	1039.00
20	12136.00	1077.90
25	10000.00	1097.30
30	8284.50	1116.70
40	5774.20	1155.40
50	4120.60	1194.00
60	2967.30	1232.40
70	2181.70	1270.80
80	1628.80	1309.00
90	1233.50	1347.10
100	946.59	1385.10
110	735.47	1422.90
120	578.10	1460.70
130	459.36	1498.30
140	368.75	1535.80
150	298.86	1573.30

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NTC 10K Ω / PT1000 TEMPERATURE GRAPHS



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