

NPT SERIES NPT2 AIR AND GAS TEMPERATURE SENSOR

The NPT2 Series of high performance temperature sensors are designed to measure the temperatures of all types of air and gas in demanding motorsport and on-vehicle automotive applications.

The sensing element can be either a PT1000 or an NTC Thermistor. Calibration of each is well defined and can be installed into most common ECUs and data logging systems.

Construction is either brass or stainless steel, both with a heat insulating PEEK ISOTIP™ which insulates the sensing element from surrounding heat soak. Supplied with standard motorsports cable and sleeve this will protect from the harsh environments around the vehicle.

The NPT2 Series are race proven in many Formula around the world and offer a reliable and rugged solution for professional engineers.

Sensors For Motorsport

Features

- 1/8" NPT Thread
- PEEK ISOTIP
- -20°F to +300°F
- PT1000 or NTC
- Miniature Size

TECHNICAL SPECIFICATIONS

Ranges (FS)	-20°F to +300°F (-30°C to +150°C)
Accuracy	<±1.8°F (<±1°C)
Response Time	<10 Seconds
Seal	N/A
Sensor Type	Please See Table on Right
Construction	Brass or Stainless Steel
Electrical Connection	12", 26AWG 55spec + DR25 Sleeve
Mechanical Connection	1/8" NPT Male (ANSI B1.20.1)
Protection Class	IP67
Vibration	Mil-Std-810C, Curve L, 20G
Weight (Excluding Cable)	Brass: 0.35oz Stainless Steel: 0.35oz
Options	Cable Spec, Connector and Labelling

	NTC3KΩ	PT1000
Temp °C	Output Ω	Output Ω
-30	53100.000	882.200
-20	29121.000	921.600
-10	16599.000	960.900
0	9795.000	1000.000
10	5970.000	1039.000
20	3747.000	1077.900
25	3000.000	1097.300
30	2417.100	1116.700
40	1598.100	1155.400
50	1080.900	1194.000
60	746.400	1232.400
70	525.600	1270.800
80	376.500	1309.000
90	274.590	1347.100
100	203.460	1385.100
110	153.090	1422.900
120	116.790	1460.700
130	90.279	1498.300
140	70.581	1535.800
150	55.791	1573.300

Applications

- Air Intake
- Cabin Temperature

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Represented by:

PART NUMBER CONFIGURATOR

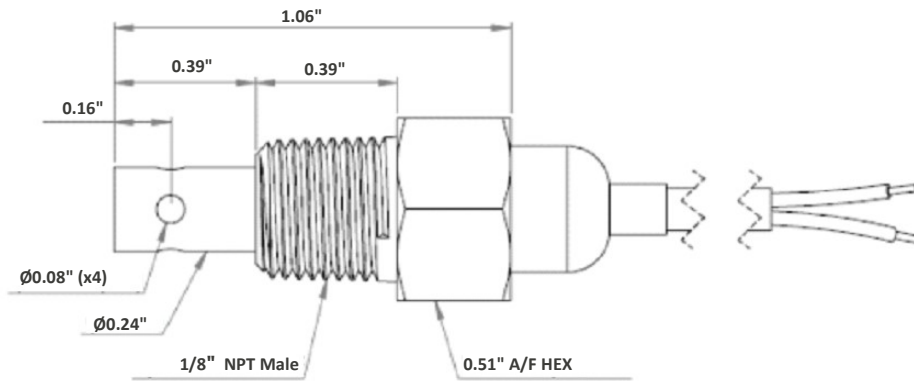
NPT2 - - - - -

Mounting Thread	1/8 Inch NPT Male (ANSI B1.20.1) — 1			
Construction	Brass with PEEK ISOTIP — B			
	Stainless Steel with PEEK ISOTIP — S			
Sensor Type	NTC, 2-Wire 3KΩ@25°C — 3K			
	PT1000, 2-Wire Class A — PT			
Cable Length	12", 55spec, 26 AWG Cable + DR25 Sleeve — A12			
Special Code	None — 000			

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

MECHANICAL DETAILS

Dimensions in inches



ELECTRICAL DETAILS

Output	Output
Red	White

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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