

**Sense
Measure
Control**

NPT1 SERIES FLUID TEMPERATURE SENSOR

The NPT1 Series of high performance temperature sensors are designed to measure the temperatures of fluid in demanding motorsport and on-vehicle automotive applications.

The sensing element can be either PT1000 or NTC thermistor, calibration of each is well defined and can be installed into most common ECUs and data logging systems.

Construction is brass with standard motorsports cable and sleeve used to protect from the harsh environments around the vehicle.

For special applications we can modify the sensor design to exactly match custom specifications. The NPT1 Series are race proven in many formula around the world and offer a reliable and rugged solution for professional engineers.

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	Viton O-ring
Sensor Type	See table on the right
Construction	Stainless Steel or Brass
Electrical Connection	12" 26AWG 55spec + DR25
Mechanical	1/8" NPT
Protection Class	IP67
Vibration	Mil-Std-810C, curve L, 20G
Weight (Excluding cable)	0.7oz for both stainless steel and brass
Options	Cable length, connector fitted thread size and labelling

Temp °C	NTC3KΩ	PT1000
	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

Features

- 1/8 NPT Thread
- Miniature Size
- -20°F to +300°F
- PT1000 or NTC
- Rugged Construction

Applications

- Coolant
- Water
- Brake
- Fuel
- Oil

Contact us

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Represented by:

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

Sensors and solutions for Motorsport and On-Vehicle applications

KAfigurator

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Construction

Brass	B
Stainless Steel	S
Aluminum	A

Sensor Type

2K ohm @ 25°C	2K
2K5 ohm @ 25°C	2K5
3K ohm @ 25°C	3K
5K ohm @ 25°C	5K
10K ohm @ 25°C	10K
1µA/Degree Kelvin	1uA
PT1000	PT

Cable Length

12 inches	A12
16 inches	A16
20 inches	A20
40 inches	A40

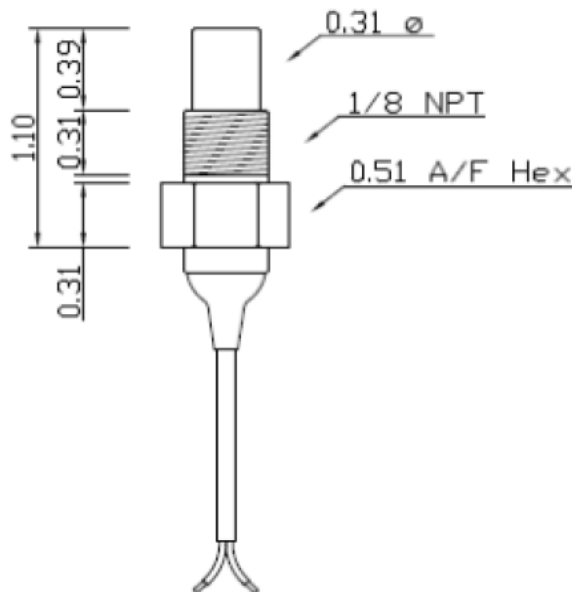
Special Codes

None	000
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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 Measure Control

Sensors for

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

Services for

- Data Logging
- Telemetry
- Controls
- Wiring
- Design

KA Sensors are

- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

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