



Sense  
Measure  
Control

## Model NTC1-M12 Fluid Temperature Sensor

- **Miniature Size**
- **Range -22°F to 302°F**
- **Ruggedized Construction**
- **PT1000 or NTC Thermistor**
- **IP67**
- **Custom Designs**



The NTC1 Series of high performance temperature sensors are designed to measure the temperatures of all types of fluid in demanding motorsport and 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 either aluminum or stainless steel 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 NTC1 Series are race proven in many formula around the world and offer a reliable and robust solution for professional engineers.

**Typical applications include: Oil – Fuel – Brake Fluid – Coolant - Water**

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KA Sensors is a dynamic company with over 30 years of sensor and instrumentation experience in the motorsport industry. We offer a strong engineering led service to all of our customers, with speed of response and confidentiality being paramount.

Please contact us for further expert assistance with your application.

**Process Measurement & Controls, Inc.**- 11 Old Sugar Hollow Road – Danbury – CT 06810 - USA

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NTC1-M12.1112U

## Specifications

■ **Range (FS)**  
-22 to 302°F

■ **Accuracy**  
±1.8°F

■ **Sensor Type**

Temp °F	NTC3KΩ	PT1000
	Output Ω	Output Ω
-22	53100.000	882.200
-4	29121.000	921.600
14	16599.000	960.900
32	9795.000	1000.000
50	5970.000	1039.000
68	3747.000	1077.900
77	3000.000	1097.300
86	2147.100	1116.700
104	1598.100	1155.400
112	1080.900	1194.000
140	746.400	1232.400
158	525.600	1270.800
176	374.500	1309.000
194	274.590	1347.100
212	203.460	1385.100
230	153.090	1422.900
248	116.790	1460.700
266	90.279	1498.300
284	70.581	1535.800
302	55.791	1573.300

■ **Response Time**  
<10 secs

■ **Seal**  
Viton 'O' ring

■ **Protection Class**  
IP67

■ **Construction**  
Aluminum or Stainless Steel

■ **Electrical Connection**  
12" 55spec, 26AWG Cable +DR25 Sleeve

■ **Vibration**  
Mil-Std-810C, Curve L, 20G

■ **Weight**  
0.4oz Aluminum (excluding cable)  
0.75oz Stainless Steel (excluding cable)

■ **Options**  
Cable Length, Connector fitted,  
Part Number Labelling

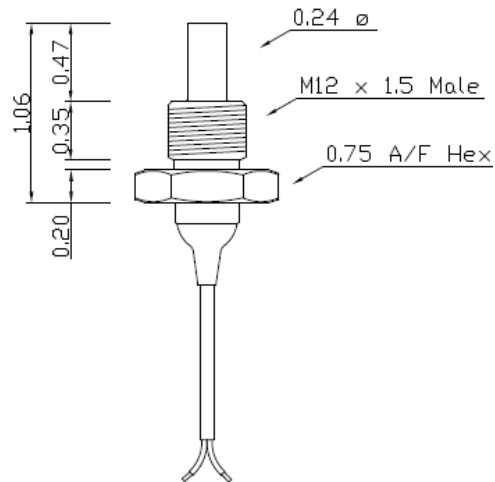
## How to Order

■ Please provide information as below:

	NTC1/M12	/ 0 /	0 0 0 0 0 0
<b>Construction</b>	Aluminum	A	
	Stainless Steel	S	
<b>Sensor</b>	3KΩ@77°F		3 K
<b>Type</b>	PT1000		P T 1 0 0 0

## Standard Configuration

Dimensions in inches



## Other Products

■ **KA Sensors offer a wide range of products and services to the Motor Sport Industry.**

■ **Sensors:** Pressure, Force, Torque, Temperature, Acceleration, Displacement, Angle, Speed

■ **Other capabilities:** Telemetry, data logging, Electronics design, Controls, Wiring. Please contact us for additional information.

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

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