

NTC SERIES NTC1 FLUID TEMPERATURE SENSOR



The NTC1 Series of High Performance Temperature Sensors are designed to measure the temperatures of all types of Fluid in demanding motorsport and automotive testing applications.

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

Construction choice is either Aluminium, Brass or Stainless Steel. With standard motorsports cable and sleeve this will protect from the harsh environments around the vehicle.

The NTC1 Series are race proven in many Formula around the world and offer a reliable and robust solution for professional engineers. For special applications, we can modify the sensor design to exactly match custom specifications.

TECHNICAL SPECIFICATIONS

Ranges (FS)	-30°C to +150°C
Accuracy	±1°C
Response Time	<10 Seconds
Seal	Viton O-Ring
Sensor Type	Please See Table on Right
Construction	Brass, Aluminium or Stainless Steel
Electrical Connection	30cm, 26AWG 55Spec + DR25 Sleeve
Mechanical Connection	Please See Part Number Configurator
Protection Class	IP67
Vibration	Mil-Std-810C, Curve L, 20G
Weight (Excluding Cable)	Brass: 20g Aluminium: 3g Stainless Steel: 20g
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

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

Sensors For Motorsport

Features

- Miniature Size
- -30°C to +150°C
- PT1000 or NTC
- Rugged Construction
- IP67
- Custom Designs

Applications

- Coolant
- Water
- Brake
- Fuel
- Oil

kasensors.com
sales@kasensors.com
+44(0)1476 568057

NTC1 10.18

PART NUMBER CONFIGURATOR

Mounting Thread

M6 x 1 Male - Not in Brass Construction
 M8 x 1 Male (ISO6149-2)
 M10 x 1 Male (ISO6149-2)
 M12 x 1.50 Male (ISO6149-2) - Not in Brass Construction

Construction

Aluminium
 Brass
 Stainless Steel

Sensor Type

NTC, 2-Wire 3K Ω @25 $^{\circ}$ C
 PT1000, 2-Wire Class A

Cable Length

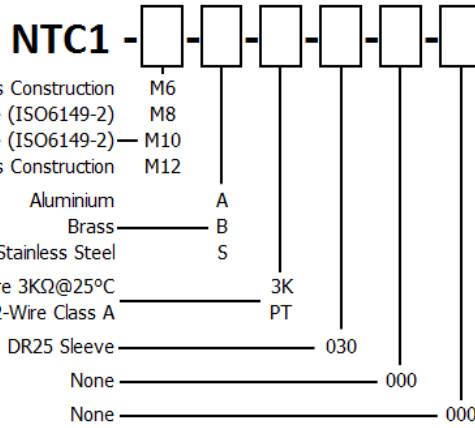
30cm, 55Spec, 26 AWG Cable + DR25 Sleeve

Special Code 1

None

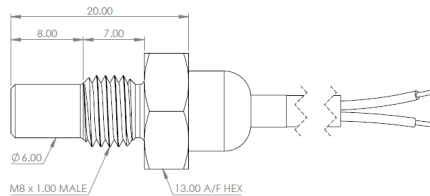
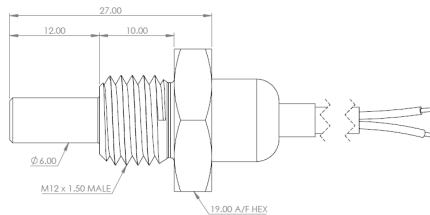
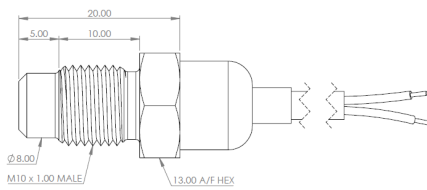
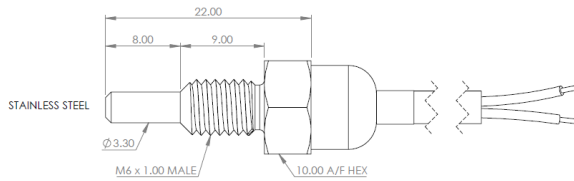
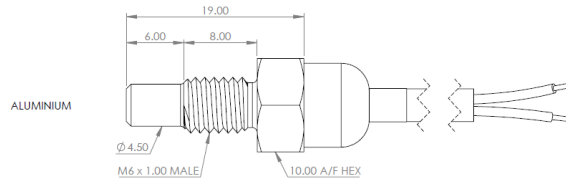
Special Code 2

None



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

MECHANICAL DETAILS



CONNECTION DETAILS

Output	Output
Red	White

Sense
 Analyse
 Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd
 Unit 14 & 15
 The Old Malthouse
 Springfield Road
 Grantham
 Lincolnshire
 United Kingdom
 NG31 7BG

kasensors.com
 sales@kasensors.com
 +44(0)1476 568057

NTC1 10.18