

T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# High Temperature Sensor

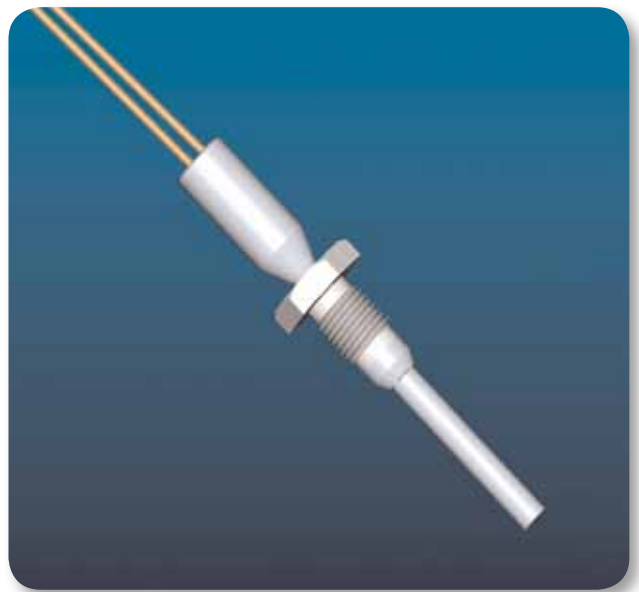
## Description

The high temperature sensor is a chromium oxide ceramic-based thermistor.

This high temperature sensor is designed to measure temperatures to 1832°F (1000°C). Its robust design is ideal for EGR and exhaust applications. The sensor currently measures 4.1 in (103 mm) (excluding wire length) and the probe diameter is 0.31 in (7.8 mm).

## Features

- Resistance: 77°F (25°C) = 170 kΩ
- Temperature range: -40°F to 1832°F (-40°C to 1000°C)
  - Excursions to 2012°F (1100°C) (<1/2 hrs)
- B-value: 2889 from 77°F to 212°F (25°C to 100°C)
- Time response: 6 to 8 seconds
- Accuracy of 66.56°F (19.2°C) at 77°F (25°C) and 50°F (10°C) at 572°F (300°C)

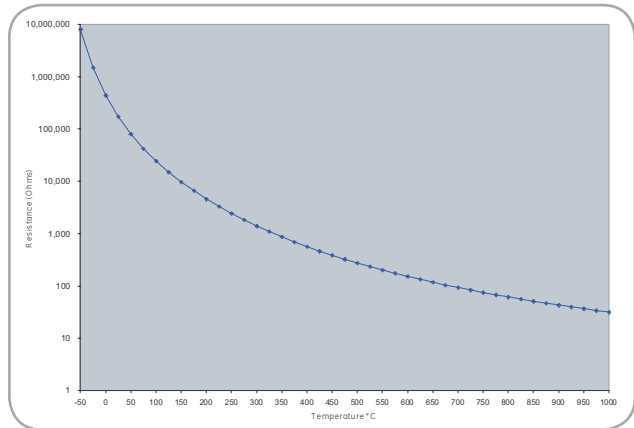
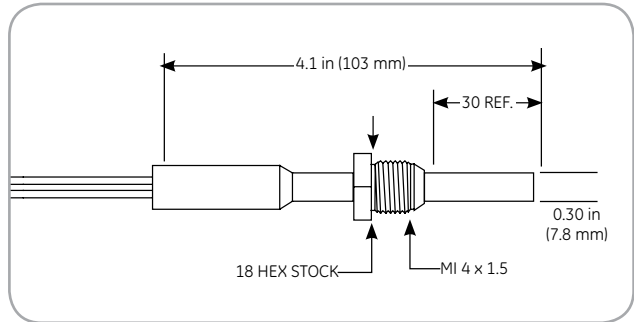


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# High Temperature Sensor Specifications

## High Temperature Probe

Temperature °C	Nominal	Alpha
-50	24710937	-4.70%
-25	8132014	-4.00%
0	3152167	-3.44%
25	1389921	-3.00%
50	679873	-2.64%
75	382049	-2.34%
100	206897	-2.09%
125	125458	-1.87%
150	60000	-1.89%
175	53260	-1.53%
200	36802	-1.40%
225	28264	-1.28%
250	19281	-1.18%
275	14511	-1.08%
300	11164	-1.00%
325	8758	-0.93%
350	6992	-0.88%
375	5870	-0.81%
400	4662	-0.75%
425	3883	-0.70%
450	3271	-0.66%
475	2785	-0.62%
500	2394	-0.59%
525	2075	-0.55%
550	1814	-0.62%
575	1597	-0.49%
600	1415	-0.47%
625	1282	-0.44%
650	1132	-0.42%
675	1821	-0.40%
700	925	-0.38%
725	842	-0.37%
750	770	-0.35%
775	707	-0.33%
800	657	-0.32%
825	602	-0.31%
850	550	-0.29%
875	520	-0.28%
900	485	-0.27%
925	454	-0.28%
950	426	-0.25%
975	401	-0.24%
1000	-3.78	-0.23%



Nominal R/T Curve High Temp Thermistor

### Weber OBD

Sensor must prove to be occurred at -4°F (-20°C)

### EAU

2.4 million

### RTDs to 1832°F (1000°C)

- IST
- HEREANS