



**T H E R M O M E T R I C S**  
A COMMITMENT TO EXCELLENCE  
AN AMPHENOL COMPANY

# Air Temperature Sensor GE-2332



Thermometrics' GE-2332 Air Temperature Sensor is intended to measure moving or static air in harsh environments such as extreme humidity, air streams containing particulates<sup>(1)</sup> or chemical contaminants. It is a passive NTC device that varies its resistance with respect to temperature. The integration of this sensor requires a constant voltage source combined in a voltage divider network or a constant current source. Current source should be limited to avoid self-heating<sup>(2)</sup>.

1. Extreme velocity with particulates could abrade sensor body, evaluate application prior to use.

2. Power should be limited to 7.8 mW/°C to avoid temperature offset >1°C

## Part Numbers

Ordering Code	Color	Connector Index	Thread Sealant
GE-2332-1	Black	Mushroom	No
GE-2332-1S	Black	Mushroom	Yes
GE-2332-2	Gray	Key	No
GE-2332-2S	Gray	Key	Yes

## Applications

- Air Intake Temperature – Under hood, Manifold, Intake Duct, Un-Filtered Air
- Ambient Temperature
- HVAC, Heat Exchangers, etc.

## Features

- Low cost
- High sensitivity
- Wide application range
- Integral sealed connector
- Rugged high temperature materials
- Pre-applied thread sealant option
- Crimpless conductive path for NTC connection

# Amphenol Sensors

# GE-2332 - Air Temperature Sensor Specifications

## Operating Temperature Range

-40°C to 135°C

## Storage Temperature

-40°C to 135°C

## Response Time (63.2%)

Maximum 60 seconds

(in 5 m/sec air)

## Housing Material

PEI GF30%

## Thread Size

3/8" – 18 NPTF

## Thread Sealant

Pre-applied dry sealant with "S" suffix

Sealant color will be either white or burnt orange

## Weight

~14 grams

## Install Torque

10.8-16.3 Nm (8-12 ft lb)

Max install speed on powered driver: 400 RPM

Sensor must be hand started into mating port

## Ingress Rating

IP67 rated if mated to Aptiv GT-150 series connector system

## Connector Interface

Aptiv Metri-Pack 150.2

Compatible with Aptiv GT-150 3.5mm Pitch Series

## Mating Connector Options<sup>(1)</sup>

Sensor P/N	GE-2332-1 GE-2332-1S	GE-2332-2 GE-2332-2S
Connector Index	Mushroom	Key
Aptiv Connector Part Numbers	15336004	15335987
	15355317	15355319
	15336024	15449027
	15449028	12162197
	12162193	12162198
	12162194	12162199
	12162195	-

Sensor Terminals: Tin Plated

1. Mating connector P/Ns are provided for reference only, refer to Aptiv catalog for required mating connector components applicable to your requirements.



GE-2332-2 with Aptiv 15335987  
Mating Connector

# GE-2332 Electrical Specifications

## Resistance @ 77°F (25°C)

2795Ω ± 2.5%

## Beta (25/85)°C

4073

## Temperature Accuracy

±0.56 @ 25°C



GE-2332-1S



GE-2332-2S

## Resistance vs. Temperature Data

Resistance = 2795 Ohms @ 25 °C

Temp. (°C)	Rnominal (ohms)	Res. Tol. ±%	Temp. Coef. (%/ °C)	Temp. Accy. (± °C)
-40	100865	4.87	6.74	0.72
-35	72437	4.69	6.51	0.72
-30	52594	4.51	6.30	0.72
-25	38583	4.32	6.10	0.71
-20	28582	4.14	5.91	0.70
-15	21371	3.96	5.73	0.69
-10	16120	3.78	5.56	0.68
-5	12261	3.59	5.39	0.67
0	9399	3.41	5.24	0.65
5	7263	3.23	5.08	0.64
10	5658	3.05	4.92	0.62
15	4441	2.86	4.77	0.60
20	3511	2.68	4.63	0.58
25	2795	2.50	4.50	0.56
30	2240	2.45	4.37	0.56
35	1806	2.41	4.25	0.57
40	1465	2.36	4.13	0.57
45	1195	2.32	4.02	0.58
50	980.3	2.27	3.90	0.58
55	808.8	2.23	3.79	0.59
60	670.9	2.19	3.69	0.59
65	559.4	2.15	3.59	0.60
70	468.7	2.12	3.49	0.61
75	394.6	2.08	3.40	0.61
80	333.8	2.04	3.31	0.62
85	283.5	2.00	3.22	0.62
90	241.8	2.09	3.14	0.67
95	207.1	2.19	3.06	0.71
100	178.0	2.28	2.99	0.76
105	153.6	2.38	2.91	0.82
110	133.1	2.47	2.84	0.87
115	115.7	2.56	2.77	0.93
120	100.9	2.66	2.70	0.98
125	88.32	2.75	2.63	1.04
130	77.54	2.78	2.57	1.08
135	68.29	2.81	2.51	1.12

