

# GE-1856 Intake Air Temperature Sensor (IAT)



Thermometrics GE-1856 Intake Air Temperature Sensor (IAT) monitors the temperature of the incoming intake air for an engine and provides a signal output that is proportional to air temperature. This signal can be used as an input to provide a signal to an Engine Control Unit (ECU), which uses this information to adjust fuel delivery and optimize the air-to-fuel ratio to produce the most efficient combustion. GE-1856 is also suitable for air duct temperature measurement in non-condensing HVAC applications.

### Applications

- Intake Air Temperature
- Duct Air Temperature

#### **Features**

- High accuracy and long-term stability
- Fast response time
- Designed for easy installation and service
- Integral sealed connector
- Alternate RvT curves possible
- Other resistance and beta values possible



# **GE-1856 Specifications**

- Operating Temperature Range: -40°C to 125°C
- Storage Temperature Range: -40 to 130°C
- R @ 25°C : 2049 ± 9.93%
- Beta (25/85)°C:
  3541K
- Response Time: ≤6 seconds from 20°C to 100°C in stirred water
- Housing Material: PBT GF30 Tan
- Connector: AMP Sealed Connector System (SCS)
- Mating Connector: AMP P/N 184004-1 (Key C)
- Thermistor Material System: S7.6

R vs. T			
Temp. (°C)	Resistance (Ω)	Resistance Tolerance (±%)	Tolerance (-) (°C)
-20	14968	15.76	3.05
-10	9176	14.10	2.91
20	2500	9.56	2.37
25	2049	9.93	2.53
60	612.0	11.53	3.59
80	337.3	12.75	4.43
120	120.0	14.68	6.14

## **GE-1856** Dimensions



#### GE-1856





#### www.amphenol-sensors.com

© 2019 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice. Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.

### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol: GE-1856