

# 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

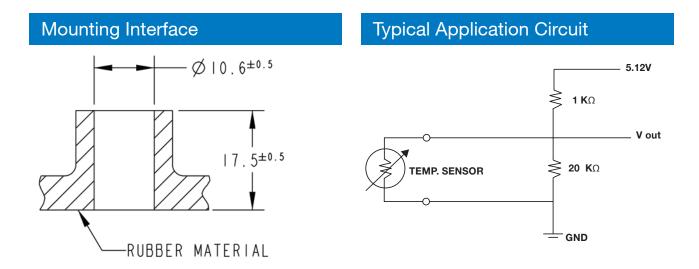


## **GE-1856 Specifications**

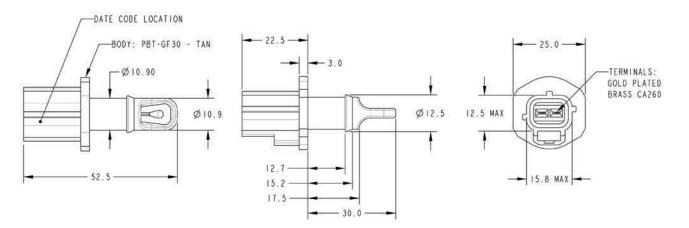
- Operating Temperature Range: -40°C to 125°C
- Storage Temperature Range: -40 to 130°C
- R @ 25°C : 2049 ± 9.93%
- Beta (25/85)°C:
  3541K
- Response Time: ≤6 seconds from 20°C to 100°C in stirred water
- Housing Material: PBT GF30 Tan
- Connector: AMP Sealed Connector System (SCS)
- Mating Connector: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





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