



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

# Product Spotlight



## Coolant Temperature Sensor(WTF083B)

### Overview

Amphenol Coolant Temperature Sensor (CTS) monitors the temperature of the coolant that is being pumped around the battery to cool the battery module in Electric Vehicles (EV) and Plug-in Hybrid Electric Vehicles (PHEV). The purpose of this sensor is to relay signal to the battery management system (BMS) in the event of overheating. Should this happen, the vehicle can be stopped and the charging switched off before the heat causes any permanent damage to the battery

### Features

- IP67 Compliant
- Compact design with integrated connector
- Customizable to meet application installation needs
- Variety of RvT curves and terminal plating available
- Operating Temperature Range:  $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$
- Response time : 5sec from  $25^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  in water
- Housing material
  - WTF083B001 (12L14 Steel with PFZn8-B)
  - WTF083B002 (SUS316L)



### Applications

- Battery Coolant Temperature
- HVAC Refrigerant Temperature