



Current Sensors

Modular Sensor Designs

CTS provides AC and DC current sensors for both industrial and automotive applications. Our sensors are used in solar panels, electrical machinery, and various types of electric vehicles, including EVs, HEVs, BEVs, and PHEVs, utilizing advanced Hall-effect technology. We offer a range of sensor solutions, including PCB Mount Sensors, Clamp-On Current Sensors, and Busbar Mount Sensors. We provide excellent performance and reliability to meet diverse application needs.



Scalable Design for Easy Customization

We provide customized solutions to meet a wide range of performance needs based on our established modular design building blocks. These sensors reach up to 2000 A and are accurate within $\pm 1\%$ allowing for tailored designs that fit most unique motor needs.



Motor and Battery Management Control

Our expertise in motor and battery management control systems includes both solutions with and without the implementation of electronic and Micro Control Units (MCU). Our capabilities in design and model manufacturing allow us to reduce system costs significantly while optimizing performance. This ensures our solutions offer the best performance-to-cost ratio for various applications.



Standard Products

We offer cost-effective solutions for high-amperage applications, featuring standard packaging and mounting options. Our sensors can be integrated into circuit board applications or used in stand-alone mounting packages for easy installation.



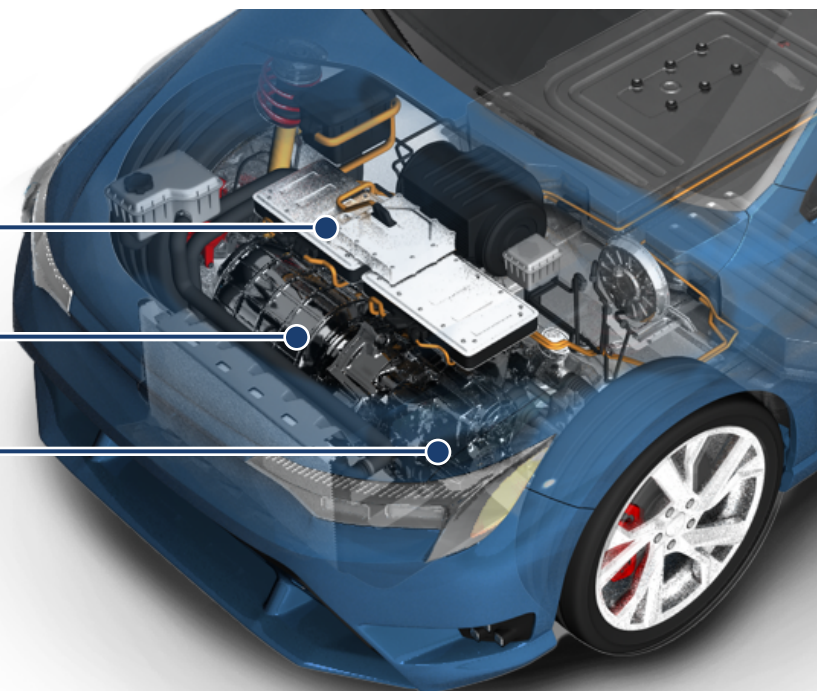
Alternating Current (AC) and
Direct Current (DC) sensing for
industrial and automotive applications

Motor Control

Inverter integrated current sensing

Battery Management System

Hall(+Shunt) current sensor
OverCurrent Detection (OCD)
DC/DC converter



Technical Specifications Table:

Parameter	Unit
Linear Error	< 1% up to FS
Supply Voltage (V_{CC})	5V
Ratiometric	V_{DD}
Temperature Range	-40 to +125 °C
Phase Shift	<4 deg @ 1kHz
Operational Temperature	-40°C to +85°C (Industrial)/+125°C (automotive)
Thermal Offset Drift	<5 mV (T-0)
Thermal Sensitivity Drift	<1 % (T-0)
Bandwidth	>40 kHz
Non-Intrusive Sensing	No Losses

Years Of Automotive Experiance

CTS Corporation began expanding into the automotive market in the early 1970's, when the U.S. government first issued requirements for controlling automotive emissions.

Today, we are a leading provider of sensing solutions, smart actuators, and pedals, with a history of delivering sensing solutions for over five decades. With over 100 million automotive sensors in the field, we have the engineering expertise and production capabilities to support a wide array of applications.

Contact Information

Contact Page

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