Amphenol Sensors Connecting your world through Sensor Innovations

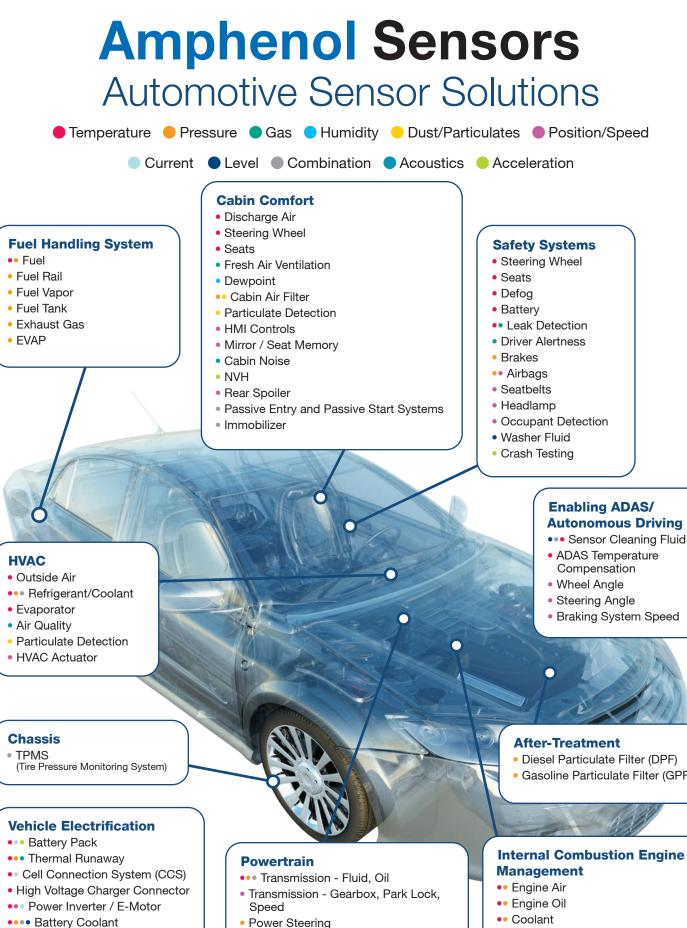
Automotive Solutions

Amphenol Sensors is a leading innovator in sensor technologies and measurement solutions. Offering the most diverse sensor portfolio of standard and customized products for the world's most demanding regulatory and industry-driven applications, Amphenol creates value by providing critical information for real-time decisions.

Amphenol Sensors is your best source for automotive sensors, offering the technology that brings your systems together to protect the vehicle, its occupants and the environment.

Consider us your global partner for all of your automotive sensor needs. We deliver innovative solutions and high-performing products with the finest customer support — bringing the best results to you and your customers.





- EURO-6 Urea
- Powertrain Development
- E-Axle

- Cylinder Head

- •••• Battery Coolant
- Motor Coil
- •••• Fuel Cell

- Intake Air
- Exhaust Gas Recirculation (EGR)

- De-ionized Water Injection

- Gasoline Particulate Filter (GPF)

Internal Combustion Engine

- Coolant

- MAP/TMAP

INTERNAL COMBUSTION ENGINE, POWERTRAIN, AND ELECTRIC VEHICLE	SAFETY SYSTEMS	CHASSIS
 Temperature Sensors High accuracy • High stability Noise-immune NTC option Fast response time Combination sensor options Customized to application Metallurgical bond glass-coated NTC option 	 Temperature Sensors Fast response time • High accuracy High stability Proven reliability Deep domain expertise Duplicate manufacturing locations Pressure Sensors Fast response time • High accuracy 	 TPMS (Tire Pressure Monitoring System) 4G, GPS & Bluetooth Integrated antennas IP69K rating CAN Bus communication Wireless sensor support Automotive R141 / R155 certified
 Pressure Sensors High accuracy High performance Long-term stability 	Long-term stability Custom options Diagnostic and protective features (ASIL)	CABIN COMFORT
Custom options Level, Concentration & Conductivity Sensors High accuracy Detects proper fluid fill and contaminants Customizable options	CO2 Gas Sensors Self-calibration Low power consumption Compact design LIN bus communication Custom packaging options	 Temperature Sensors High accuracy • High stability Noise-immune NTC option Moisture resistant Fast response time
 Position Sensors Through-shaft, end-of-shaft 2-piece and ARC/offaxis configurations Non-contact inductive and hall-effect technologies 	 Position Sensors PIHER systems Pobust and reliable modular design Selectable working principle: potentiometric, hall effect, and reed switch 	 Pressure Sensors High performance High accuracy Customizable design Multiple output options
technologies Accurate output at high speeds Reliable in harsh environments Combined Pressure & Temperature Sensors	Level, Quality, and Concentration Sensors High accuracy Continuous monitoring for fluid contamination Programmable for irregular shape tanks	Gas Detection Sensors Detectable gases: CO ₂ , CO, NO ₂ , NH ₃ PWM and LIN bus Custom packaging options
 High accuracy • Oil resistant Wide temperature range: -40°C to 150°C Robust against pressure spikes Accelerometers Wide frequency ranges available PIEZOTRONICS 	Customizable options Accelerometers Wide frequency ranges available Single and triaxial configurations Robust design for demanding environments	 Dew Point Sensors Combined temperature and humidity measurement PWM and LIN bus Custom package options
 Single and triaxial configurations Robust design for demanding environments Various mounting methods Electrically isolated High sensitivity and low noise 	 Various mounting methods Electrically isolated High sensitivity and low noise Position and Level Sensors Absolute, non-contact measurement 	Dust Particulate Sensors PM2.5 Laser detection Fast response High accuracy
Gas Detection Sensors Sensitivity to multiple gases: H ₂ /CO ₂ /NH ₃ /CO Temperature / Humidity Sensor Pressure sensor (20 up to 250 kPa) Fast response time: <1 second IP6K7 rating	Highest reliability Robust and compact design for harsh environments ENABLING ADAS AND AUTONOMOUS DRIVING	 Position Sensors Low profile Excellent resolution Custom form-factor ready Linear and rotary position feedback
 Cell Connection System (CCS) High current circuit for battery cell connectivity Available styles: Wire Harness and Flexible Printed Circuit (FPC) 	Level, Concentration and Alcohol Content Sensors High accuracy Continuous monitoring Freeze prediction Temperature Sensors	 Passive Entry and Passive Start Systems Anti-theft Long-range PEPS Short-range immobilizer Encrypted CAN Bus CE/FCC certified
 Current Sensor Based on open-loop Hall-effect and coreless TMR technology Busbar, integrated busbar, flanged and wire mounting Simple or redundant analog ratiometric output 	 High accuracy High stability Customized to application Position/Speed Sensors PIHER systems 	 Acoustic Sensors Specialized microphones for a wide variety of applications High temperature, water and dust-resistant models available High accuracy
Measured values of up to ±4,000A AFTER-TREATMENT	 High accuracy Custom design, cable or connector interface Durable and robust package Stable performance in harsh environmental condition 	Accelerometers Wide frequency ranges available Single and triaxial configurations Robust design for demanding environments Various mounting methods
Temperature Sensors High accuracy • High stability Integral/pigtail options Fast response time • Right angle and straight probe options	FUEL HANDLING SYSTEM Temperature Sensors High accuracy • High stability Integral/pigtail options	 Electrically isolated High sensitivity and low noise Position Level Sensors Absolute, non-contact measurement
DEF Level, Temperature & Concentration Sensors High Accuracy Continuous monitoring Meets highest worldwide emissions regulations Programmable for custom and irregular shape tanks	 Combination sensor options Pressure Sensors High accuracy • High performance Long-term stability Custom options 	 Highest reliability Robust and compact design for harsh environments
 Pressure Sensors High reliability High accuracy Up/downstream pressure Customizable design Compatible w/ exhaust gas media and acid condensates 	 Position and Level Sensors Absolute, non-contact measurement Highest reliability Robust and compact design for harsh environments 	

Continued on Next Page

3

HVAC		
Temperature Sensors High accuracy • High stability Noise-immune NTC option Moisture resistant Fast response time		
 Position Sensors Through-shaft, end-of shaft, AR 2-piece touchless technology Long life • Low hysteresis • Low Excellent resolution and linearity Field-proven • Custom connector 	v current consumption	
 Pressure Sensors Leakproof • High accuracy Harsh Media compatibility 		
Gas Detection Sensors Detectable gases: CO ₂ , CO, NC PWM and LIN bus Custom packaging options	D2, NH3 SENSORTECH	
Dust Particulate Sensors PM2.5 Laser detection Fast response High accuracy	TELAIRE SCX	
Combined Pressure & Tempe Compatible to coolants such as R134a, R1234yf, R744 High accuracy and fast respons Wide pressure range: 10 bar to 2	e time 200 bar	

LIN output with diagnostic features



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www.amphenolsensors.com



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