Amphenol Sensors

Connecting your world through
Sensing Innovations

Heavy Equipment & Off Road (HVOR)

Amphenol Sensors is a leading innovator in sensing 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.

Efficiency under high demand. For agriculture, farm and construction, Amphenol Sensors combines its expertise in automotive sensing with the high demands inherent of heavy equipment. Our sensors maximize the efficiency and lifetime of your heavy equipment, which translates to improved operational costs, operator safety and environmental compliance.

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HVOR Sensing Solutions

Temperature Pressure Gas Humidity Dust/Particulates Position Level Combination

Fuel Handling System
- Fuel
- EVAP

Cabin Comfort
- Discharge Air
- Steering Wheel
- Seats
- Dewpoint
- Cabin Air Filter
- Particulate Detection
- Joystick Control Handles

Safety Systems
- Steering Wheel
- Seats
- Defog
- Battery
- Leak Detection
- Brakes
- Seatbelts
- Washer Fluid

HVAC
- Outside Air
- Refrigerant/Coolant
- Evaporator
- Air Quality
- Particulate Detection
- HVAC Actuator

Powertrain
- Transmission - Fluid, Oil
- Transmission - Gearbox, Park Lock, Speed
- Power Steering
- EURO-6 Urea
- Steering Angle
- Pedals

Engine Management
- Engine Air
- Engine Oil
- Coolant
- Intake Air
- Exhaust Gas Recirculation (EGR)
- Cylinder Head
- MAP/TMAP
- Hydraulic Fluid

After-Treatment
- Diesel Particulate Filter (DPF)
- Diesel Exhaust Fluid (DEF)

ENGINE MANAGEMENT

Temperature Sensors
- High accuracy • High stability
- Noise immune NTC option
- Fast response time • Combination sensor options

Pressure Sensors
- High accuracy • High performance
- Long-term stability • Custom options
- Suitable for ambient temperatures up to 150°C

Level, Concentration & Conductivity Sensors
- Accuracy ±1%
- Detects proper fluid fill and contaminants

POWERTRAIN

Temperature Sensors
- High accuracy • High stability
- Customized to application
- Utilizes metallurgical bond glass-coated NTC

Pressure Sensors
- Stable and accurate • Durable
- Customizable design • Multiple output options

Position Sensors
- Non-contact inductive and hall-effect technologies
- Excellent resolution and precision
- Reliable in harsh environments
- Touchless mechanical solutions

Combined Pressure & Temperature Sensors
- High accuracy • Oil resistant
- Wide temperature range: -40°C to 150°C
- Robust against pressure spikes

SAFETY SYSTEMS

Temperature Sensors
- Fast response time • High accuracy
- High stability • Proven reliability
- Deep domain expertise • Duplicate manufacturing locations

Pressure Sensors
- High accuracy • Small size
- Long-term stability
- Diagnostic and protective features (ASIL)

Position Sensors
- Robust and reliable modular design
- Selectable working principle: Potentiometric, hall effect, reed switch

Level & Concentration Sensors
- Accuracy ±2%
- Continuous monitoring for fluid contamination
- Programmable for irregular shape tanks

AFTER-TREATMENT

Temperature Sensors
- High accuracy • High stability
- Integral/pigtail options
- Fast response time • Right angle and straight probe options

DEF Level, Temperature & Concentration Sensors
- Accuracy ±1% • Continuous monitoring
- Meets EPA regulations
- Programmable for irregular shape tank

CABIN COMFORT

Temperature Sensors
- High accuracy • High stability
- Noise immune NTC option
- Moisture resistant • Fast response time

Pressure Sensors
- High performance • High accuracy
- Customizable design • Multiple output options

Gas Detection Sensors
- Detectable gases: VOC
- Compact design • Custom packaging options

Dewpoint Sensors
- PWM and Lin Bus • Custom package options
- Combined temperature measurement

Dust Particulate Sensors
- PM2.5 • Laser detection
- Fast response • High accuracy

Position Sensors
- Non-contact inductive and hall-effect technologies
- Excellent resolution and precision
- Reliable in harsh environments
- Touchless mechanical solutions

HVAC

Temperature Sensors
- High accuracy • High stability
- Noise immune NTC option
- Moisture resistant • Fast response time

Position Sensors
- Robust and reliable modular design
- Custom form-factor available
- Selectable working principle: Potentiometric,hall effect, reed switch

Pressure Sensors
- Leakproof • High accuracy
- Media compatibility

Gas Detection Sensors
- Custom packaging options
- PWM and Lin Bus
- Detectable gases: Hydrocarbons, NOX, Ammonia

Dust Particulate Sensors
- PM2.5 • Laser detection
- Custom packaging options

Combined Pressure & Temperature Sensors
- Leakproof • High accuracy
- Diagnostic and protective features (ASIL)
- Wide pressure range: 10bar to 200bar

FUEL HANDLING SYSTEM

Temperature Sensors
- High accuracy • High stability
- Integral/pigtail options
- Combination sensor options

Pressure Sensors
- High accuracy • High performance
- Long-term stability
- Custom options

Level Sensors
- Accuracy ±1% • Continuous monitoring
- Robust non-contacting sensors
- Slosh and aeration filtering software

Sensing Technologies

MAJOR MARKETS SERVED	**Thermometrics, Inc.** Temperature	**Telaire** Gas & Moisture	**NovaSensor** Pressure	**Protimeter** Moisture Meters	**Kaye** Thermal Validation	**SGX Sensortech** Gas	**Piher Sensing Systems** Position	**Wilcoxon Sensing Technologies** Vibration	**Piezo Technologies** Ultrasonic	**i2s** Pressure & Temperature	**All Sensors** Ultra Low Pressure	**SSI Technologies** Level, Quality & Pressure
Aerospace (Commercial)	●		●			●	●				●	●
Agriculture	●	●		●		●	●			●		●
Air Quality		●		●		●					●	●
Automation	●	●					●	●			●	
Automotive	●	●	●			●	●			●		●
Construction & Restoration				●								●
Electrification (EV/HEV)	●	●	●			●	●			●		●
Energy	●					●		●	●			
Environmental Monitoring					●	●					●	
HVACR	●	●	●			●	●	●		●	●	●
Heavy Equipment & Off-Road (HVOR)	●		●			●	●			●		●
After-Treatment	●											●
Cabin Comfort	●		●			●	●					
Engine Management	●		●							●		●
Fuel Handling System	●		●							●		●
HVAC	●					●	●			●		
Powertrain	●		●				●			●		
Safety Systems	●						●			●		●
Industrial	●	●	●	●		●	●	●		●	●	●
Marine	●					●	●	●				●
Medical	●		●		●		●		●		●	●
Military	●		●			●	●	●	●		●	●
Non-Destructive Testing (NDT)									●			
Oil & Gas	●		●			●	●	●	●		●	●
Pharmaceutical & Biotech					●						●	●
Railway	●							●	●			●
Thermal Validation					●							

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