

Amphenol Sensors

Connecting your world through
Sensor Innovations

Hydrogen Technologies

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 hydrogen related sensors, offering the technology that brings your systems together, enhancing safety and promoting efficiency in the rapidly evolving hydrogen economy.

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



Amphenol Sensors

Hydrogen Technologies

- Temperature
- Pressure
- Gas
- Vibration
- Level
- Humidity
- Position
- Hydrogen Gas
- Concentration

Hydrogen Generation, Transportation, and Storage

- Temperature Sensors
- Vibration Sensors
- Pressure Sensors
- Ultra Low Pressure Sensors
- Gas Sensors (Including Hydrogen)
- Humidity Sensors
- Position Linear Sensors and Level Transmitters
- Level Sensors
- Level Measurement of Liquid Hydrogen

Fuel Cell

- Steam/ Water Tank
- Hydrogen Supply
- Hydrogen Tank
- Compressor
- Fuel Cell Stack
- Humidifier
- Leak Detection

Hydrogen Internal Combustion Engine

- Hydrogen Tank
- SCR System
- Fuel
- Leak Detection



HYDROGEN GENERATION, TRANSPORTATION, AND STORAGE

Temperature Sensors

- Robust design for harsh environments
- Thermal cut-off fuses allow for added safety features
- Customization options
- High accuracy and stability for increased efficiency and performance



Vibration Sensors

- Monitor equipment to ensure efficient operation
- Early fault detection
- Compact sensor placement
- Real-time data feedback of live conditions
- Meets environmental and hazardous area requirements



Pressure Sensors

- Media compatibility • Output repeatability
- Robust design • Long-term stability
- High accuracy • Compact package size
- Stainless Steel for durability



Ultra Low Pressure Sensors

- Measure, monitor, and control air flow and air pressure
- High stability and repeatability
- High Accuracy
- Compact package size



Gas Sensors (including Hydrogen)

- ATEX certified • Selective gas detection
- High accuracy and range
- Long life • Low power usage



Humidity Sensors

- Duct- and wall-mounted transmitters
- Fully-calibrated OEM sensors
- Connectivity to building automation systems



Position Linear Sensors and Level Transmitters

- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX Certified



Level Sensors

- Ultrasonic • High accuracy
- Multiple output options
- Multiple distance options
- Customizable options



FUEL CELL

Temperature Sensors

- Monitor temperature in various areas of a fuel cell vehicle
- Moisture-proof construction
- Fast Response time
- Wide temperature range
- High-pressure proof design available



Gas Leak Detection Sensors

- Sensitivity to H2 gases
- Packaged Modules and Surface Mount versions
- Fast response time: <1 second
- IP6K7 rating. ASIL-A sensors, Thermal Conductivity sensor technology, 0-4% range



Ultrasonic Fluid Level Switch

- Simple analog (voltage) output
- Extremely durable and accurate
- Microprocessor controlled
- All-plastic design (PPS) eliminates opportunity for metal ionization



Pressure Sensors

- MEM's, piezoresistive, oil-filled
- Extremely durable and accurate
- Configurable with multiple outputs, connectors, ports, etc.
- High accuracy and performance • Wide pressure range
- Customization for specific applications
- ASIL rating possible



Pressure and Temperature

- All plastic housings, bolt on designs
- Willing to customize for specific applications
- High accuracy and performance
- Wide pressure range
- Custom options



Gas Sensors

- Hydrogen Sensor • Surface mount
- Analog Output • Pre-calibrated
- Automotive qualified • -0-160000 ppm range



HYDROGEN INTERNAL COMBUSTION ENGINE

Pressure Sensors

- MEM's, piezoresistive, oil-filled
- Extremely durable and accurate
- Configurable with multiple outputs, connectors, ports, etc.
- Patented Freeze Protection Available



DEF / AdBlue Level and Concentration Sensors

- Ultrasonic technology
- Extremely durable and accurate
- Offer both standalone sensors and sensors with heater modules



Temperature Sensors

- Monitor temperature in various areas of a H2ICE vehicle
- Moisture proof construction
- Fast Response time
- High temperature monitoring





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Amphenol
Sensors

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