

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

- Pressure
 - Temperature
 - 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 and tank applications
- Thermal cut-off fuses allow for added safety features
- Customization options
- High accuracy and stability for increased efficiency and performance

 THERMOMETRICS



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

 PCB
PIEZOTRONICS

 Wilcoxon
SENSING TECHNOLOGIES

Pressure Sensors

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

 NOVA
SENSOR



Ultra Low Pressure Sensors

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

 ALL
SENSORS
an Amphenol company

 SGX
SENSORTECH

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

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Position Linear Sensors and Level Transmitters

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

 TELAIRE

 Tempsonics



Level Sensors

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

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Fuel Cell

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 THERMOMETRICS

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

 SGX
SENSORTECH

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

- MEMS, 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

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Pressure + Temperature

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

 TELAIRE

Gas Sensor

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

Hydrogen Internal Combustion Engine

Pressure Sensors

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

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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

 THERMOMETRICS

Amphenol Sensors



*Scan the QR code to
access our library of
resources*

Or visit www.amphenolsensors.com