

# 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
- 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 + Temperature

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



### Gas Sensor

- 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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resources*

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