

# Amphenol Sensors

Connecting your world through  
Sensor Innovations

## Indoor Air Quality

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.

With indoor air quality on everyone's minds, Amphenol Sensors is more than equipped to answer the call with 30+ years of expertise and field-proven designs.

Our industry-leading sensor technologies are not only able to measure the quality of inhaled air, but also to ensure that it's done in the most efficient way possible.

Capable of detecting multiple gases, including Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), and Volatile Organic Compounds (VOC), as well as humidity and particulates, Amphenol Sensors also offers air quality sensor solutions that can be used across a wide range of applications, such as offices, classrooms, and residential properties.



# Amphenol Sensors

## Indoor Air Quality Sensor Solutions

● Temperature ● Pressure ● Gas ● Humidity ● Moisture ● Vibration ● Position

### Air Handling Unit

- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO<sub>2</sub>, Refrigerant)
- Humidity Sensors
- Vibration Sensors
- Position Sensors

### Air Quality Monitoring

- Pressure Sensors
- Gas Sensors (CO<sub>2</sub>, VOC, Flammable, Toxic)
- Humidity Sensors
- Moisture Meters

### Filter Monitoring

- Pressure Sensors
- Gas Sensors (VOC)

### Room Monitoring

- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO<sub>2</sub>, VOC)
- Humidity Sensors

### Personal & Industrial Safety

- Pressure Sensors
- Gas Sensors (VOC)

### Clean Rooms

- Pressure Sensors
- Gas Sensors (CO<sub>2</sub>)
- Humidity Sensors

## FILTER & ROOM MONITORING

### Temperature Sensors

- Accuracy and stability are second-to-none
- Noise immune thermistors available
- Robust design for harsh environments



### Gas Sensors (CO<sub>2</sub>)

- OEM sensors and transmitters
- NDIR dual and single channel technology
- Connectivity to building automation systems



### Gas Sensors (VOC, Flammable and Toxic)

- Detectable gases: VOC, NO, NO<sub>2</sub>, NH<sub>3</sub>
- 1000 ppb to 1000 ppm



### Humidity Sensors

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



### Pressure Sensors

- High stability, accuracy and over-pressure
- Low drift



### Ultra Low Pressure Sensors

- High sensitivity, stability and repeatability
- Compact package size
- Analog and digital output



## AIR HANDLING UNIT

### Temperature Sensors

- Accuracy and stability are second-to-none
- Proven designs
- Customizations available



### Gas Sensors (CO<sub>2</sub>)

- Lifetime calibration
- Outputs: I<sup>2</sup>C, UART, BACnet and analog
- Combination models with CO<sub>2</sub>, humidity and temperature



### Gas Sensors (Refrigerant)

- Detectable Gases: R290, NH<sub>3</sub>, R454, R32, R1234
- Outputs: linearized and analog voltage
- 500/1000 ppm to 100% LEL



### Humidity Sensors

- Transmitters and OEM sensors
- Field replaceable sensors
- High IP rating protection



### Pressure Sensors

- Types: absolute, vented gauge and sealed gauge
- Stainless steel, robust for harsh environments
- Pressure Range: 3 psi - 7500 psi



### Ultra Low Pressure Sensors

- Air flow: monitoring and control
- Pressure ranges: 0.25 inch H<sub>2</sub>O to 150 psi
- Outputs: analog and digital



### Position Sensors

- Flap & damper motor positioning
- Reliable non-contacting 360° position feedback in compact packaging
- Up to 50 million life cycles
- High performance in harsh environmental conditions



### Vibration Sensors

- Condition monitoring for fault detection of fans and motors
- Optimized performance and equipment life



## AIR QUALITY MONITORING

### Pressure Sensors

- High sensitivity, stability and repeatability
- Compact package size



### Gas Sensors (CO<sub>2</sub>)

- OEM sensors and transmitters
- NDIR dual and single channel technology
- Connectivity to building automation systems



### Gas Sensors (VOC, Flammable and Toxic)

- Detectable gases: VOC, NO, NO<sub>2</sub>, NH<sub>3</sub>
- High sensitivity and range
- User-friendly • Long lifetime • Poison resistant



### Moisture Meters

- Diverse range of handheld devices
- Non-invasive and pin (WME) modes of measurement
- For use with many types of materials, including wood, drywall, concrete



## PERSONAL & INDUSTRIAL SAFETY

### Gas Sensors (VOC, Flammable and Toxic)

- Detectable gases: VOC, NO, NO<sub>2</sub>, NH<sub>3</sub>
- ATEX Certification
- High sensitivity and accuracy • Low power
- Poison resistant



### Ultra Low Pressure Sensors

- Continuous monitoring of air sample flow
- High sensitivity, stability and repeatability
- Compact package size



## CLEAN ROOMS

### Pressure Sensors

- Positive pressure measurement
- High accuracy and stability
- Compact package size



### Pressure Sensors

- High stability, accuracy and over-pressure
- Low drift



### Ultra Low Pressure Sensors

- High sensitivity, stability and repeatability
- Compact package size



# Amphenol Sensors



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