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 changes in regulations and increasing consumer emphasis on improved quality of life, the demand for more energy efficient buildings and improved air quality in the workplace has never been so important. Not to mention, growing energy costs and worsening outdoor pollution are compounding efforts by HVAC system designers to leverage sensor capabilities to make indoor environments healthy and efficient.

That is why Amphenol Sensors’ extensive range of sensor solutions and capabilities are at the forefront of the HVACR industry. Our product offerings are simple to integrate and provide the very latest in sensor technology, backed by extensive engineering resources and manufacturing expertise.
Amphenol Sensors
Industrial HVACR Sensor Solutions

- Energy Efficiency
- Indoor Air Quality

- Temperature
- Pressure
- Gas
- Humidity
- Vibration
- Position
- Fluid Level

**Outdoor Air**
- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO₂, VOC, Flammable, Toxic)
- Humidity Sensors

**Air Handling Unit**
- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO₂, Refrigerant)
- Humidity Sensors
- Vibration Sensors
- Position Sensors

**Duct Measurement**
- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO₂)
- Humidity Sensors

**Filter Monitoring**
- Pressure Sensors
- Gas Sensors (VOC)

**Room Monitoring**
- Temperature Sensors
- Pressure Sensors
- Gas Sensors (CO₂, VOC)
- Humidity Sensors

**Water Management**
- Temperature Sensors
- Pressure Sensors
- Vibration Sensors
- Ultrasonic Fluid Level & Concentration Sensors

**Building Pressurization**
- Pressure Sensors

**Boiler Control**
- Temperature Sensors
- Pressure Sensors
- Combined Pressure & Temperature Sensors
- Vibration Sensors

**Chiller Control**
- Temperature Sensors
- Pressure Sensors
- Combined Pressure & Temperature Sensors
- Vibration Sensors
OUTDOOR AIR • DUCT MEASUREMENT
ROOM & FILTER MONITORING

Temperature Sensors
- Robust design for harsh environments
- Thermal cut-off fuses for added safety
- Customizations available

Gas Sensors (CO₂)
- 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, NO₂, NH₃
- 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

BOILER & CHILLER CONTROL

Temperature Sensors
- Robust design for harsh environments
- Thermal cut-off fuses for added safety
- Customizations available

Pressure Sensors
- Types: Absolute, vented gauge and sealed gauge
- Stainless steel, robust for harsh environments
- Pressure range: 3psi - 7500psi

Pressure Sensors
- Internal metal-to-metal sealing
- Stainless steel element with excellent long-term stability

Combined Pressure & Temperature Sensors
- High pressure and temperature accuracy
- Compatible to all currently used coolants
- Low (up to 600psi) and high (up to 2900psi) versions available

Vibration Sensors
- Condition monitoring for fault detection of components
- Maximizes performance and reduces downtime

WATER MANAGEMENT

Temperature Sensors
- Robust design for harsh environments
- Thermal cut-off fuses for added safety
- Customizations available

Pressure Sensors
- Media compatibility
- High stability, repeatability and over-pressure

Vibration Sensors
- Vibration monitoring of pumps with alarms
- Maintain water usage throughout buildings

Ultrasonic Fluid Level & Concentration Sensors
- Continuous monitoring of fluid level and concentration
- 1% accuracy
- Robust, non-contact sensing with slosh and aeration filtering

BUILDING PRESSURIZATION

Pressure Sensors
- Differential Pressure (DP) measurement
- Duct-mounted transmitters

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

Ultra Low Pressure Sensors
- High sensitivity and repeatability
- Compact package size

Pressure Sensors
- Internal metal-to-metal sealing
- Stainless steel element with excellent long-term stability

Pressure Sensors
- Types: Absolute, vented gauge and sealed gauge
- Stainless steel, robust for harsh environments
- Pressure range: 3psi - 7500psi
| MAJOR MARKETS SERVED | Thermometrics, Inc. | Telaire | NovaSensor | Protimeter | Kaye | SGX Sensortech | Pihler Sensing Systems | Wilcoxon Sensing Technologies | Piezo Technologies | i2s | All Sensors | SSI Technologies | Ultra Low Pressure | Level, Quality & Pressure | Eva Thermometrics |
|----------------------|---------------------|--------|------------|------------|------|---------------|------------------------|---------------------------|------------------|-----|-------------|-----------------|-------------------|---------------------|-------------------|------|
| Aerospace (Commercial) | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                | ●   | ●           | ●               | ●                 | ●                   | ●                 |
| Agriculture          | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Air Quality (Indoor)  | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Automotive           | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Construction & Restoration | ●         | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Electrification (EV/HEV) | ●                 | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Energy               | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Environmental Monitoring | ●               | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Heavy Equipment & Off-Road (HVOR) | ●           | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| HVACR                | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Air Handling Unit    | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Boiler Control       | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Building Pressurization | ●              | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Chiller Control      | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Duct Measurement     | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Filter Monitoring    | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Outdoor Air          | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Room Monitoring      | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Water Management     | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Industrial           | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Marine               | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Medical              | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Military             | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Non-Destructive Testing (NDT) | ●             | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Oil & Gas            | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Pharmaceutical & Biotech | ●               | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Process Control      | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Railway              | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |
| Thermal Validation   | ●                  | ●      | ●          | ●          | ●    | ●             | ●                      | ●                         | ●                |     | ●           | ●               | ●                 | ●                   | ●                 |