Amphenol Sensors

Connecting your world through
Sensor Innovations

Industrial Process Control

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.

Process controls are key for industrial efficiency and safety. By monitoring, measuring, and controlling process equipment and conditions, a producer not only ensures product consistency and quality, but also product profitability.

From the equipment that keeps your process moving to the fluids, air and gases needed during production, and robotics for automation, Amphenol Sensors provides sensor solutions every step of the way.

Amphenol Sensors

Industrial Process Control Sensor Solutions

● Temperature ● Pressure ● Gas ● Humidity ● Vibration ● Speed & Position ● Level

Process Equipment
● Boiler Control
● Modulating/Furnace Controls
● Motor Monitoring
●● Pump Monitoring
●● Gearbox Monitoring
●● Fluid Handling Equipment Monitoring

Process Fluids
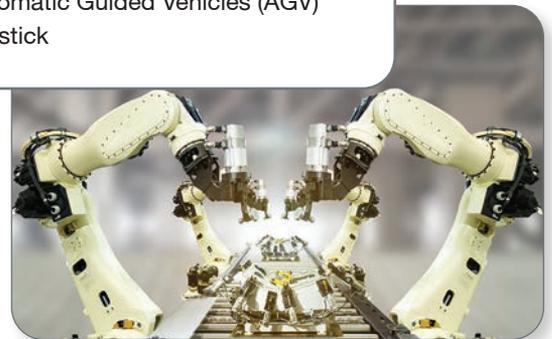● Fluid Temperature
● Fluid Pressure
●● Fluid Level

Process Gases
● Gas Pressure
● Gas Leakage
● Gas Concentration
● Process Waste Gases
● Gas Flow control
● Humidity

Process Automation
●● Machinery Condition Monitoring
●● Robotics
●● Factory Automation
● Human-Machine Interface (HMI)
● Guidance Systems
● Automatic Guided Vehicles (AGV)
● Joystick

Process Air
● Airflow Rate
● Airflow Pressure
● Duct Airflow
● Compressed Air
● Airflow Control

PROCESS EQUIPMENT

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

THERMOMETRICS
EXA THERMOMETRICS

Ultra Low Pressure Sensors
- High stability and repeatability
- High accuracy • Compact package size

ALL SENSORS an Amphenol company

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

Wilcoxon SENSING TECHNOLOGIES

Position Linear Sensors and Level Transmitters
- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX Certified

Temposonics

PROCESS FLUIDS

Temperature Sensors
- High accuracy and stability for increased efficiency and performance
- High temperature range
- Fast response time
- Robust design for harsh environments
- Customization options

THERMOMETRICS
EXA THERMOMETRICS

Pressure Sensors
- Media compatibility • Output repeatability
- High accuracy • Compact package size
- Stainless steel for long-term stability

NOVA SENSOR
i2s an Amphenol company
SSI

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

Position Linear Sensors and Level Transmitters
- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX Certified

Temposonics

PROCESS GASES

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

NOVA SENSOR
i2s an Amphenol company
SGX SENSORTECH

Gas Sensors
- 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

TELAIRE

Position Linear Sensors and Level Transmitters
- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX Certified

Temposonics

PROCESS AUTOMATION

Position Sensors
- Non-contact inductive and hall-effect technologies • Long life
- Suitable for harsh environments
- Excellent resolution and precision
- Modular, compact and lightweight design
- Custom linear and rotary position feedback

PIHER sensing systems

Speed Sensors
- Long life • Low hysteresis • Field-proven
- Custom connectors and wires

PIHER sensing systems

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
- Various process signals for control-system inputs

Wilcoxon SENSING TECHNOLOGIES

Position Linear Sensors and Level Transmitters
- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX Certified

Temposonics

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

PROCESS AIR

Pressure Sensors
- Media compatibility • Output repeatability
- Robust design • Long-term stability
- High accuracy • Compact package size
- Media-isolated for fluid compatibility
- Stainless steel for durability

NOVA SENSOR
i2s an Amphenol company
SSI

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

Position Linear Sensors and Level Transmitters
- Absolute, non-contact measurement
- Highest reliability
- Robust design for harsh environments
- ATEX-Certified

Temposonics

Sensor Technologies

MAJOR MARKETS SERVED	Thermometrics, Inc. (Temperature)	Telaire (Gas & Moisture)	NovaSensor (Pressure)	Protimeter (Moisture Meters)	Kaye (Thermal Validation)	SGX Sensortech (Gas)	Piher Sensing Systems (Position)	Wilcoxon Sensing Technologies (Vibration)	Piezo Technologies (Ultrasonic)	i2s (Pressure & Temperature)	All Sensors (Ultra Low Pressure)	SSI Technologies (Level, Concentration, Speed & Pressure)	Exa Thermometrics (Temperature)	PCB Piezotronics (Vibration, Pressure, Force & Acoustics)	Endevco (Vibration, Pressure & MEMS)	Temposonics (Position, Velocity, Level)
Aerospace (Commercial)	●		●			●	●				●	●	●	●	●	●
Agriculture	●	●		●		●	●			●	●	●	●	●		●
Air Quality (Indoor)	●	●	●	●		●	●				●	●	●	●		●
Automation	●	●					●	●			●		●	●		●
Automotive	●	●	●			●				●		●	●	●		●
Construction & Restoration				●									●			●
Vehicle Electrification	●	●	●			●	●			●		●	●	●		●
Energy	●					●		●	●		●		●	●		●
Environmental Monitoring					●	●					●					●
Heavy Vehicle & Off-Road (HVOR)	●		●			●	●			●		●	●	●	●	●
HVACR	●	●	●			●				●	●	●	●	●		●
Industrial	●	●	●	●		●	●	●		●	●	●	●	●		●
Marine	●					●	●	●			●	●	●			●
Medical	●	●	●		●				●		●	●				●
Military	●		●			●	●	●	●		●	●	●	●	●	●
Non-Destructive Testing (NDT)									●							
Oil & Gas	●		●			●	●	●	●		●	●	●	●		●
Pharmaceutical & Biotech					●	●					●	●				●
Process Control	●	●	●			●	●	●			●	●	●	●		●
Process Air			●								●	●	●			●
Process Equipment	●							●				●		●	●	●
Process Fluids	●		●							●		●	●			●
Process Gases		●	●			●				●						●
Process Automation							●	●				●		●		●
Railway	●					●		●			●	●	●	●	●	●
Thermal Validation					●											

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