Amphenol Sensors

Connecting your world through Sensing Innovations

Medical Applications

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.

Today's patient care demands the ultimate in accurate and reliable monitoring of critical parameters. Amphenol is a pioneer in the development of new and increasingly robust sensor technology for medical applications. We offer innovative solutions, fast development cycles and excellent quality control to meet the most stringent requirements.



Amphenol Sensors

Medical Sensor Solutions

- Temperature

- Pressure Position Ultrasonic Thermal Validation

Patient Monitoring

- Thermometry
- Skin Temperature
- Intra-Uterine Pressure
- Blood Pressure
- Glucose Monitoring
- Wearables

Respiratory Care

- Ventilation
- Pulmonary
- Spirometry
- Sleep Apnea
- Anesthesia
- Inhalers

Critical Care

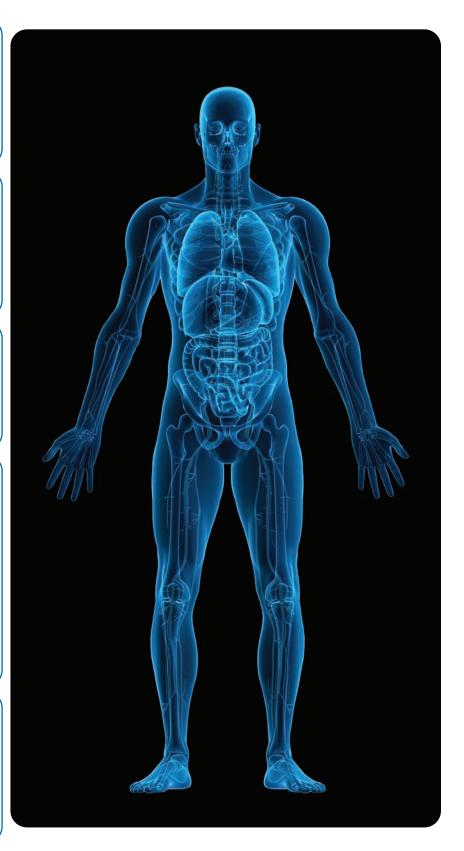
- Catheters
- Ablation
- 🛑 🔵 🔵 Fluid Management
- Defibrillation
- Ultrasonic Air-in-line Detection

Medical Instrumentation

- Clinical & Laboratory Equipment
- Insulin Pumps
- Kidney Dialysis
- Clinical Mattresses
- Laboratory Analysis
- Tissue Ablation
- Ultrasonic Bone Healing
- Temperature Validation Systems
- Calibration Equipment
- Environmental Monitoring
- Cold Chain Monitoring

Surgical Assemblies

- Heat Ablation
- Liposuction
- Medical Lasers
- Catheters
- Ultrasonic Tissue Ablation
- Ultrasonic Recanalization



PATIENT MONITORING

Temperature Sensors



- Highly accurate Proven reliability
- Fast response time Continuous monitoring
- Small profile for tight spaces Customization options

Pressure Sensors

- AAMI compliant High reliability and quality
- Low cost, disposable High performance
- · Customizable designs

Position Sensors

- Low profile Long life Excellent resolution
- Custom form-factor ready
- · Linear and rotary position feedback



PIHER sensing systems

RESPIRATORY CARE

Temperature Sensors

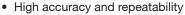


- · Highly accurate Proven reliability
- Fast response time Continuous monitoring
- Small profile for tight spaces Customization options

Pressure Sensors

- High accuracy and stability
- Multiple output options: Analog, Digital I2C, SPI
- High over-pressure capability

Ultra Low Pressure Sensors





- Customized options available
- Sized for portable or handheld equipment

Position Sensors

• Low profile • Long life

• Excellent resolution

· Excellent linearity • Custom connectors and wires

SURGICAL ASSEMBLIES

Temperature Sensors



- Highly accurate Proven reliability
- Fast response time Continuous monitoring
- Small profile for tight spaces
 Customization options

Pressure Sensors

- Extremely small size Stable and accurate
- Media compatibility Customizable designs
- Die, wire assembly and eval-kits available

Ultrasonic Sensors

- · High power and low self-heating
- Combined imaging and therapy
- · High accuracy · High reliability
- Tunable transducers



CRITICAL CARE

Temperature Sensors



- Highly accurate Proven reliability
- Fast response time Continuous monitoring
- Small profile for tight spaces Customization options

Pressure Sensors

- Extremely small size Stable and accurate
- Media compatibility Customizable designs
- · Die, wire assembly and eval-kits available

Ultra Low Pressure Sensors

- · High accuracy and repeatability
- Fast response
- · Customized options available
- · Sized for portable or handheld equipment

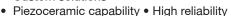
Position Sensors

- Low profile Long life
- Excellent resolution

Excellent linearity • Custom connectors and wires

Ultrasonic Sensors

Custom solutions



· Integration capability for occlusion and flow

MEDICAL INSTRUMENTATION

Temperature Sensors





• Small profile for tight spaces • Customization options

Pressure Sensors

- · High accuracy, stability and reliability
- Media-isolated stainless steel
- Customizable designs
- Pressure ranges: 2" H₂0 15,000 psi

Ultra Low Pressure Sensors

- High accuracy and repeatability
- Fast response
- · Customized options available
- · Sized for portable or handheld equipment

Position Sensors

- Low profile Long life
- Excellent resolution
- Custom form-factor ready
- · Linear and rotary position feedback

Ultrasonic Sensors

- High reliability Low profile Full device capability



SPiezo Technologies[™]

PIHER sensing

Thermal Validation

- Wired Wireless RF-based real-time systems
- · Data integrity meeting GXP requirements

Environmental Monitoring

- · Complete solution · Regulatory compliant
- Robust, scalable system architecture
- Monitor Alarm Secure Report Access Visibility

























 ☐ THERMOMETRICS

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, Quality & Pressure	Exa Thermometrics Temperature
Aerospace (Commercial)	•		•			•	•				•	•	•
Agriculture	•	•		•		•	•			•		•	•
Air Quality (Indoor)	•	•	•	•		•	•	•			•	•	•
Automation	•	•					•	•			•		•
Automotive	•	•	•			•	•			•		•	•
Construction & Restoration				•								•	
Electrification (EV/HEV)	•	•	•			•	•			•		•	•
Energy	•					•		•	•				•
Environmental Monitoring					•	•					•		
Heavy Equipment & Off-Road (HVOR)	•		•			•	•			•		•	•
HVACR	•	•	•			•	•	•		•	•	•	•
Industrial	•	•	•	•		•	•	•		•	•	•	•
Marine	•					•	•	•				•	
MEDICAL	•	•	•		•		•		•		•	•	
Critical Care	•		•				•		•		•		
Medical Instrumentation	•		•		•		•		•		•	•	
Patient Monitoring	•		•				•						
Respiratory Care	•		•				•				•		
Surgical Assemblies	•		•						•				
Military	•		•			•	•	•	•		•	•	
Non-Destructive Testing (NDT)									•				
Oil & Gas	•		•			•	•	•	•		•	•	•
Pharmaceutical & Biotech					•						•	•	
Process Control	•	•	•			•	•	•		•	•	•	•
Railway	•							•				•	•
Thermal Validation					•								



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