

Amphenol Sensors

Connecting your world through
Sensing Innovations

Medical Applications

Amphenol Sensors is a leading innovator in sensing 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 Sensing 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

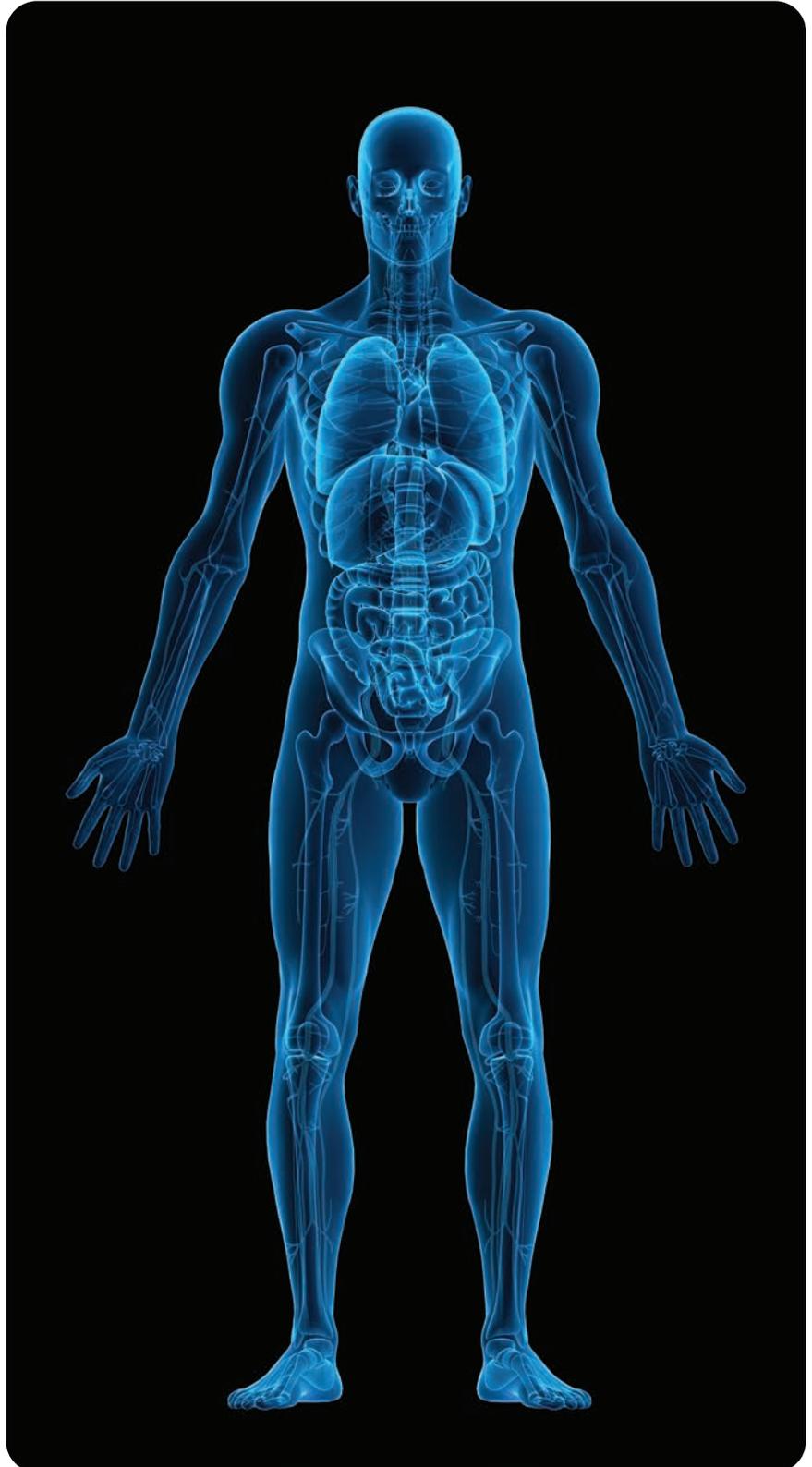
- ● Catheters
- Ablation
- ● Fluid Management
- Defibrillation
- Ultrasonic Air-in-line Detection

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



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

- 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



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
- Piezoceramic capability • High reliability
- Integration capability for occlusion and flow



MEDICAL INSTRUMENTATION

● Temperature Sensors

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



● Pressure Sensors

- High accuracy, stability and reliability
- Media-isolated stainless steel
- Customizable designs
- Pressure ranges: 2" H₂O - 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



● 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



Sensing 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
Aerospace (Commercial)	●		●			●	●				●	●
Agriculture	●	●		●		●	●			●		●
Air Quality		●		●		●					●	●
Automotive	●	●	●			●	●			●		●
Automation	●	●					●	●			●	
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					●						●	●
Railway	●						●	●				●
Thermal Validation					●							