SENSORS AND SWITCHES
SOLUTIONS FOR MEDICAL APPLICATIONS

PRESSURE SENSORS – BOARD MOUNT
- TruStability™ RSC Series
- Basic ABP Series
- MicroPressure MPR Series
- 26PC Series

PRESSURE TRANSDUCERS – HEAVY DUTY
- 13 mm Series
- 19 mm Series
- MIP Series
- MLH Series
- FPS000 Series
- CIP (Clean in Place) Series

FORCE SENSORS AND LOAD CELLS
- MicroForce FMA Series
- FSA Series
- FSG Series
- FSS Series
- Basic TBF Series
- 1965 Series
- Model 11
- Model 31

AIRFLOW SENSORS
- Honeywell Zephyr™ HAF Series (High Flow)
- Honeywell Zephyr™ HAF Series (Low Flow)
- AWM40000 Series
- AWM700 Series
- AWM90000 Series

SANITARY PRESSURE TRANSDUCERS
- CIP (Clean in Place) Series

HUMIDITY SENSORS
- Honeywell HumidIcon™
- HIH-5000/5031 Series (3 V)
- HIH-6000 Series (5 V)
- HIH-4602 Series

MAGNETIC SENSORS
- SOT-23
- SOT-92-style
- 3100 Series, 3200 Series, 3400 Series
- Oxygen Sensors, DOI MLF Series

SUBMINIATURE BASIC SWITCHES
- DM Series
- V7 Series
- V15W Series
- ZD Series
- ZM Series
- ZM1 Series
- ZW Series
- ZX Series

PRESSURE SWITCHES
- LP & LE Series
- 5000 Series
- SPS Series Linear and Arc

POSITION SENSORS – SMART

TEMPERATURE SENSORS
- Honeywell HumidIcon™
- HIH-4000 Series
- HIH-4602 Series
- 102 Series Thermistors
- 194 Series Thermistors
- 2455R Series Thermistors

BARCODE SCAN ENGINES, MODULES AND SOFTWARE
- N670X Series
- CM Series
- Zebra Series
- SwiftDecoder™ Software

FLEXIBLE HEATERS
- 3100 Series, 3200 Series, 3400 Series
- DM Series
- V7 Series
- V15W Series
- ZD Series
- ZM Series
- ZM1 Series
- ZW Series
- ZX Series

PRESSURE, AIRFLOW AND FORCE SENSOR RANGES

PRESSURE SENSORS – BOARD MOUNT
- ±0.4 mbar to ±1.6 mbar
- ±2 mbar to ±10 mbar
- ±10 mbar to ±100 mbar
- ±100 mbar to ±1000 mbar

PRESSURE TRANSDUCERS – HEAVY DUTY
- ±0.025 in-H2O to ±160 in-H2O

SANITARY PRESSURE TRANSDUCERS
- ±0.5 in-H2O to ±160 in-H2O

FORCE SENSORS AND LOAD CELLS
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N
- 5 N to 25 N

AIRFLOW SENSORS
- HAF Series: ±50 SCCM to ±750 SCCM
- AWM40000 Series: ±25.0 SCCM, ±50 SCCM
- AWM7000 Series: ±100 SCCM
- AWM90000 Series: ±200 SCCM

GAS SENSORS
- Carbon Monoxide
- Oxygen
- Carbon Dioxide
- Hydrogen
- Methane
- Hydrogen Sulfide
- Ammonia
- Ethanol
- Ethylene
- Acetone
- Propylene
- Chlorine
- Ammonium
- Hydrogen Peroxide
- Nitrogen Dioxide
- Nitric Oxide
- Formaldehyde
- Chlorine Dioxide
- Sulphur Dioxide
- Hydrogen Chloride
- Methanol
- Formaldehyde
- Acetaldehyde
- Acetic Acid
- Ethanol
- Propanol
- Butanol
- Isopropanol
- Gases
- Hydrogen Sulfide
- Ammonia
- Hydrogen Chloride
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- Acetic Acid
- Ethanol
- Propanol
- Butanol
- Isopropanol
- Gases
Anesthesia Delivery Machines
• Airflow sensors measure air, oxygen and nitrous oxide flow
• Magnetic sensors enable smooth motor control that reduces noise/vibration
• Pressure sensors obtain dialysate and venous pressure measurements without interrupting flow
• Barcodes can interchangeably be used to test the ventilator’s air and oxygen valves

Oxygen Concentrators
• Airflow sensors detect ultra-low airflow levels that sense when the patient inhales for efficient oxygen delivery
• Oxygen sensors measure and control oxygen concentration level of the air mixture delivered to the patient
• Pressure sensors detect when the patient begins to inhale for efficient oxygen delivery
• Pressure sensors sense surge tank pressure for accurate compressor pressure levels
• Pressure switches alert the user when the pressure exceeds a specified limit

Patient Monitoring Systems
• Barcode scanner software enables the ability to track the patient via a mobile device
• Oxygen sensors measure oxygen concentration level of the air mixture delivered to the patient
• Pressure sensors in nebulizers carefully monitor airflow rates so that the specified amount of medicine, amid a humid environment, is delivered to the patient
• Pressure sensors in spirometers measure in/out patient airflow
• Pressure sensors monitor blood pressure
• Thermistors in temperature monitoring equipment monitor temperature

Sleep Apnea Machines
• Airflow sensors monitor breathing and send an output to reduce airflow when the patient exhales
• Bimetallic commercial thermostats on-board (stand-alone) devices on flexible heaters control temperature without adding associated software or electronics
• Humidity sensors monitor the air to provide adequate moisture
• Magnetic sensors enable smooth motor control that reduces noise/vibration
• Pressure sensors monitor the delivered air pressure
• Thermistors and pre-packaged temperature probes provide warm, moist air

Spirimeters
• Airflow sensors measure the airflow from the patient upon exhalation
• Pressure sensors measure in/out patient airflow

Surgical Equipment
• Force sensors regulate a fluid management system’s pump head pressure
• Position sensors (SMART Arc) and force sensors in robotically assisted surgery equipment control robotic arms that hold the articulated instrument tips
• Pressure sensors (board mount and heavy duty) in surgical fluid management systems sense joint site pressure during arthroscopic surgery

Ventilators
• Airflow sensors measure air and oxygen flow so the correct amount is delivered to the patient
• Barcode scan engines and software enable automated, more accurate and faster tracking of patient and caregiver IDs and ensure the right medication and equipment match the right patient
• Basic switches detect doors and covers to ensure they have been properly closed before operation
• Humidity sensors deliver warm, moist air to the patient
• Magnetic sensors enable smooth motor control, reducing noise/vibration
• Oxygen sensors measure and control oxygen concentration level of the air mixture delivered to the patient
• Pressure sensors detect when the breath changes from inhalation to exhalation to measure in/out patient airflow
• Pressure sensors (heavy duty) measure inlet pressure from the hospitals air and oxygen supplies
• Pressure transducers are used to test the ventilator’s air and oxygen valves
• Thermistors monitor and control air temperature

Consumer Medical (Pressure Sensors)
• Measure pressure in non-invasive blood pressure monitoring
• Monitor pressure applied to the wound via the suction system in negative-pressure wound therapy
• Measure partial vacuum on the suction side of miniature pumps, such as breast pumps, to provide continuous suction pressure monitoring
• Monitor water level in CPAP water tanks
• Provide pressure measurement in medical wearables

For more information
Honeywell Advanced Sensing Technologies serves its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit sps.honeywell.com/ast or call:

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