Sensors and Switches for Potential Medical Applications

**Pressure Sensors - Board Mount**

- **TruStability™ Series**: RSC, HSC, SSC, TSC, NSC Series
- **Basic Series**: ABP, TBP, NBP Series
- **MicroPressure Series**: MPR Series
- **24PC, 26PC Series**: 1865 Series

**Force Sensors**

- **FSA Series**
- **FSG Series**
- **FSS Series**
- **FSS-SMT Series**
- **Basic TBF Series**
- **1865 Series**

**Temperature Sensors**

- **Honeywell HumidIcon™ Series**: HIH6000, 6100, 7000, 8000, 9000 Series
- **500 Series**: Packaged Temperature Probes
- **192 Series**: Thermistors
- **194 Series**: Thermistors
- **2455R Series**: Thermostats

**Position Sensors - SMART**

- **SPS Series**
- **SM Series**
- **SX Series**
- **Watertight V15W Series**
- **ZD Series**
- **ZM Series**
- **ZW Series**
- **ZX Series**
- **5000 Series**

**Subminiature Basic Switches**

- **SM Series**
- **SX Series**
- **Watertight V15W Series**
- **ZD Series**
- **ZM Series**
- **ZW Series**
- **ZX Series**
- **5000 Series**

**Value-Added Solutions**

- **Custom 1865 Series Force Sensor Assembly**
- **CM Series Compact 2D Imager Module**
- **N6600 Series Ultra-Slim Area Imaging Engine**
- **SwiftDecoder™ SDK for iOS, Android™ and Windows® Operating System**

**Barcode Scan Engines**

- **CM Series Compact 2D Imager Module**
- **N6600 Series Ultra-Slim Area Imaging Engine**

**Barcode Decoding and Character Recognition Software**

- **SwiftDecoder™ SDK for iOS, Android™ and Windows® Operating System**

**Pressure, Airflow, and Force Sensor Ranges**

**PRESSURE SENSORS - BOARD MOUNT**

- **TruStability™ Series**: RSC, HSC, SSC, TSC, NSC Series ±1.6 mbar to ±10 bar | ±160 Pa to ±1 MPa | ±0.5 inH₂O to ±150 psi
- **Basic Series**: ABP, TBP, NBP Series ±60 mbar to ±10 bar | 6 kPa to ±1 MPa | ±1 psi to 150 psi
- **MicroPressure Series**: MPR Series 60 mbar to 2.5 bar | 6 kPa to 250 kPa | 1 psi to 30 psi
- **24PC Series**: 0.5 psi to 250 psi (SIP, DIP), 1 psi to 15 psi (SMT)
- **26PC Series**: 1 psi to 250 psi (SIP, DIP), 1 psi to 15 psi (SMT)
- **26PC Flow-Through Series**: 1 psi to 15 psi

**PRESSURE TRANSDUCERS - HEAVY DUTY**

- **13 mm Series**: 0 psi to 500 psi through 0 psi to 5000 psi
- **19 mm Series**: 0 psi to 3 psi through 0 psi to 500 psi
- **MLH Series**: 0 psi to 100 psi through 0 psi to 150 psi
- **SPT Series**: 0 psi to 3 psi through 0 psi to 5000 psi

**AIRFLOW SENSORS**

- **HAF Series-High Accuracy**: ±50 SCCM to ±750 SCCM, 10 SLPM to 300 SLPM
- **AWM40000 Series**: ±25.0 SCCM, 1.0 SLPM, 6.0 SLPM
- **AWM700 Series**: 300 SLPM
- **AWM90000 Series**: ±200 SCCM, ±5.0 mbar SCCM [2.0 inH₂O]

**FORCES SENSORS**

- **FSA Series**: N: 5, 7.5, 10, 15, 20, 25 lb: 1, 1.5, 2, 3, 5, 10, 20, 50, 75, 100, 125
- **FSG Series, FSS Series, FSS-SMT Series**: 0 N to 5 N, 0 N to 10 N, 0 N to 15 N, 0 N to 20 N
- **Basic TBF Series**: 1 bar to 10 bar | 100 kPa to 1 MPa | 15 psi to 150 psi
- **1865 Series**: 0 psi to 5 psi, 0 psi to 10 psi, 0 psi to 15 psi, 0 psi to 25 psi, 0 psi to 30 psi
Anesthesia Delivery Machines
- Airflow sensors measure air, oxygen, and nitrous oxide flow
- Magnetic sensor ICs enable smooth motor control that reduces noise/vibration
- Force sensors detect when the breath changes from positive to negative
- Magnetic sensor ICs enable smooth motor control, reducing noise/vibration
- Pressure sensors determine the amount of medicine delivered to the patient
- Magnetic sensor ICs enable smooth motor control that reduces noise/vibration
- Pressure switches alert the user when the pressure exceeds a specified limit

Oxygen Concentrators
- Airflow sensors detect ultra-low airflow levels that cause the patient to exhale for efficient oxygen delivery
- Magnetic sensor ICs enable locking/unlocking of medication dispensing cabinets
- Pressure sensors detect when the breath changes from negative to positive
- Pressure sensors sense low air pressure for accurate measurement
- Pressure switches alert the user when the pressure exceeds a specified limit

Ventilators
- Airflow sensors measure and control airflow to the patient
- Magnetic sensor ICs enable smooth motor control that reduces noise/vibration
- Airflow sensors measure and control airflow to the patient
- Magnetic sensor ICs enable smooth motor control that reduces noise/vibration
- Airflow sensors detect when the breath changes from positive to negative

Hospital Diagnostics
- Airflow sensors in gas chromatography equipment regulate the flow rate to prevent over saturation
- Magnetic sensor ICs enable locking/unlocking of medication dispensing cabinets
- Humidity sensors maintain temperature and humidity levels in incubators and microenvironments
- Magnetic sensor ICs enable locking/unlocking of medication dispensing cabinets
- Magnetic sensor ICs enable locking/unlocking of medication dispensing cabinets

Patient Monitoring Systems
- Barcode scanner software enables the ability to track the patient via a mobile device
- Pressure sensors in blood glucose monitoring equipment control the pumps used to extract and return blood so that the pressure doesn’t rupture the veins
- 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

Pneumatic Circuit Control
- Pressure sensors control pneumatic flow and system pressure for efficient performance in respiratory breathing circuits (nebulizers, spirometers, patient monitoring), flow/pressure control (therapeutic hospital beds), gas collection/delivery (hospital gas supply, oxygen concentrators) and sampling/gas flow (blood analysis, gas chromatography, analytical instrument sampling systems)

Kidney Dialysis Machines
- Embedded barcode reader that is tethered to the equipment supports the identification and delivery process
- Magnetic sensor ICs enable smooth motor control that reduces noise/vibration
- Pressure sensors monitor and control the flow of fluid
- Pressure sensors obtain diastolic and venous pressure measurements without interrupting flow

For more information
Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit sensing.honeywell.com or call:
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