TSI PresSura™ Healthcare Room Pressure products help provide safety in isolation rooms, operating rooms, and other specialized spaces, by continually measuring room pressure and indicating room conditions. The PresSura products assist hospitals and engineers to comply with relevant ASHRAE, AIA, CDC and USP standards. TSI’s unique thermal-based pressure sensor offers the most precise, accurate, and stable measurement. Over 50,000 hospital rooms in leading healthcare facilities rely on TSI products every day to provide effective 24/7 monitoring.

**Applications**
- Isolation Rooms (All & PE)
- Operating Rooms (ORs)
- Compounding Pharmacies
- Pandemic Preparedness Rooms
- Intensive Care Units
- Laboratories and Vivariums
- Burn Units
- Bronchoscopy Suites
- Laundry Areas, Food Prep, Construction

**Options**
- Basic monitoring of a single room
- Monitor up to two critical rooms plus an anteroom
- Control one room while monitoring an anteroom
- Monitor or control:
  - Temperature
  - Relative humidity
  - Airflow with ACH calculations
  - Door switch
  - Occupancy sensor
- Nurse’s remote station to simultaneously monitor up to eight rooms

**Features and Benefits**
- Accurate room pressure differential measurement for safety and standards compliance
- Industry-leading sensor accuracy within ±0.00001 in H₂O
- 4.3 in. flush-mounted color touchscreen
- Intuitive interface for simplified programming and monitoring
- Seamless integration to BAS via BACnet® MS/TP, LonWorks®, and Modbus® communications
- Digital interface module has audible and visual alarms to alert users of unsafe conditions
- Multiple levels of password protection provides secure access to controller functions
- No isolation mode disables alarms when room is used for non-infectious patients or is unoccupied
- Optional remote keyswitch allows for secure switching of room modes
- Onboard diagnostics assist with HVAC troubleshooting
- Partner controllers with a fast-acting actuator for immediate response to prevent alarms
- Plug-in terminal strips for fast and accurate wiring installation
- Mounts in a standard depth electrical box to easily fit within a typical framed wall
**SPECIFICATIONS**

**PRESSURA ROOM PRESSURE MONITORS AND CONTROLLERS**

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**Bi-Directional Through-the-Wall Sensor**

**Range**
-0.20000 to +0.20000 in H₂O
(-49.8 Pa to +49.8 Pa)

**Accuracy**
±10% of reading ±0.00001 in H₂O
(±0.0025 Pa)

**Resolution**
5% of reading

**Temperature Compensation Range**
55 to 95 °F (13 to 35 °C)

**Alarms**

- **Low Alarm**: -0.19500 to +0.19500 in H₂O
  (-48.6 Pa to +48.6 Pa)

- **High Alarm**: -0.19500 to +0.19500 in H₂O
  (-48.6 Pa to +48.6 Pa)

**Touchscreen Display**

- **Size**: 4.3 in. (10.9 cm) diagonal
- **Resolution**: QVGA

**Dimensions:**

- 7 in. x 5.875 in. x 1.75 in. (17.8 cm x 14.9 cm x 4.4 cm)
- Protrusion from wall: 0.625 in. (1.6 cm)
- Mounts to triple-gang standard depth electrical box

**Inputs**

- **Temperature**: 1000-ohm platinum RTD
- **Temperature Setpoint**: 0-10 VDC
- **Relative Humidity**: 0-10 VDC
- **Supply Flow**: 0-10 VDC
- **Exhaust Flow**: 0-10 VDC
- **Remote Keyswitch**: Open/Closed Signal
- **Pressure Transducer**: 0-10 VDC
- **Room Pressure Sensor**: 0-10 VDC
- **Door Switch**: Open/Closed Signal
- **Room Occupancy**: Open/Closed Signal

**Optional Analog Output**

- (1) Flow or Room Pressure Differential
- 0-10 VDC or 4-20 mA

**Optional Control Outputs**

- (1) Supply
- 0-10 VDC
- (1) Exhaust
- 0-10 VDC
- (1) Temperature
- 0-10 VDC or 4-20 mA

**Contact Outputs**

- Low Alarm and High Alarm / Room Mode
- SPST (NO)
- Max Current: 2 A
- Max Voltage: 220 VDC/250 VAC

**Communications Protocols**

- BACnet® MS/TP, Modbus®, Lonworks®

**Input Power**

- 24 VAC, 50/60 Hz
- 15-40 VDC
- 5 Watt Maximum

**Operating Temperature**

- 32 to 120 °F (0 to 49 °C)

**Weight**

- 14 oz (0.40 Kg)

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### Specifications Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum # Rooms Monitored</th>
<th>Maximum # Rooms Controlled</th>
<th>Configurable Room Modes</th>
<th>Visual and Audible Alarms w/ Delays</th>
<th>Alarm Relay Contacts</th>
<th>Optional Analog Output</th>
<th>Optional Control Outputs</th>
<th>Optional Contact Outputs</th>
<th>Optional Communications Protocols</th>
<th>Optional Input Power</th>
<th>Operating Temperature</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>RPM10</td>
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<td></td>
<td>BACnet MS/TP, Modbus, Lonworks</td>
<td>24 VAC, 50/60 Hz</td>
<td>32 to 120 °F (0 to 49 °C)</td>
<td>14 oz (0.40 Kg)</td>
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<tr>
<td>RPM20</td>
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<td></td>
<td>(1) Flow or Room Pressure Differential</td>
<td>(1) Supply</td>
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</tr>
<tr>
<td>RPC30</td>
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Specifications are subject to change without notice.

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