The Series RSME Room Status Monitor is designed for low differential pressure applications that require stringent pressure monitoring and alarming. It can be configured to monitor positive or negative pressure in clean rooms, hospital isolation rooms, laboratories, and vivariums. The RSME is a complete system with a touchscreen graphical user interface which enables access to pressure, humidity, temperature, air change, security, door status, calibration, and alarm setup. The graphical display color changes allow a clear determination of when the parameters are operating within the acceptable range (green), caution range (yellow), or have gone outside the acceptable operating range (red). The RSME room status monitor comes standard with BACnet MS/TP and Modbus® RTU communications.

**APPLICATIONS**
- Hospital isolation rooms
- Pharmaceutical facilities
- Dental offices
- School nurse offices

**SPECIFICATIONS**
- **Service**: Air
- **Measurement Technology**: Piezoresistive pressure sensor
- **Wetted Materials**: Front: PMMA window with IP65 rating; Back housing: ABS UL 94 V-0
- **Pressure Limits**: 1.5 psig
- **Accuracy**: ±0.5% RSS (includes non-linearity: ±0.49% BFSL, hysteresis: ±0.05% and non-repeatability: ±0.05%), or ±1% RSS (includes non-linearity: ±0.99% BFSL, hysteresis: ±0.05% and non-repeatability: ±0.05%), after 1 hour warm-up period.
- **Thermal Effect**: ±0.02% FS/°F (includes zero and span).
- **Process Connection**: Barbed, fits 1/8˝ and 3/16˝ (3 mm and 5 mm) ID rubber or vinyl tubing.
- **Inputs**: Two (2) user-selectable 4-20 mA, 0-5 VDC, or 0-10 VDC; USB type C used for cloning programming; One (1) digital input for door status.
- **Outputs**: One (1) digital output (DO) rated 5 A @ 30 VDC; One (1) 4-20 mA or 0-10 V (user selectable) corresponding to internal pressure or retransmission of any input.
- **Ambient Temperature Limits**: 32 to 122°F (0 to 50°C).
- **Power Requirements**: 24 VAC/VDC.
- **Selectable Pressure Units**: Pa, kPa, cm w.c., mm w.c., and in w.c.
- **Temperature Units**: °F and °C.
- **Zero and Span Adjustments**: Adjustable via touchscreen.
- **Power Consumption**: 2.64 W max.
- **Electrical Connection**: Removable terminal block.
- **Display**: 4.3˝ (10.9 cm) color TFT LCD, dimmable; 480 x 272 resolution.
- **Communications**: Modbus® RTU, BACnet MS/TP.
- **Audible Alarm**: 69.1 dB 10 cm from display.
- **Weight**: 13.6 oz (385.6 g).
- **Compliance**: BTL, CE.

**ACCESSORIES**
- **Model**: A-220
  - **Description**: Clear flexible vinyl tubing is easily inspected, and is therefore best for test applications where a possibility of fluid entering the tubing exists. 3/16˝ ID x 5/16˝ OD, lengths to 500’; 45 psi maximum pressure @ 73°F
- **Model**: A-285
  - **Description**: Remote alarm annunciator with visible/audible alarm and acknowledge switch
- **Model**: A-417A
  - **Description**: Static pressure pickup. For use in clean rooms, 60 micron filter picks up static pressure. Stainless steel wall plate fits 2˝ x 4˝ electrical box. Sealed with foam gasket, screws included. Barbed brass fitting holds 1/8˝ to 3/16˝ ID tubing
- **Model**: A-418A
  - **Description**: Static pressure pickup. Room mount with Delta Style plastic enclosure fits 2˝ x 4˝ electrical box. Fine mesh screen hides static pressure pickup port. Clean connection to 1/8˝ to 3/16˝ ID tubing and pressure sensor sealed with foam gasket, screws included
- **Model**: A-465
  - **Description**: Flush mount space pressure sensor, white plastic
- **Model**: A-RSME-BOX
  - **Description**: Surface mount box for RSME series

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Accuracy</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSME-B-003</td>
<td>±0.5%</td>
<td>0 to 0.5 in w.c.</td>
</tr>
<tr>
<td>RSME-B-004</td>
<td>±0.5%</td>
<td>1 in w.c.</td>
</tr>
<tr>
<td>RSME-B-005</td>
<td>±0.5%</td>
<td>2.0 in w.c.</td>
</tr>
<tr>
<td>RSME-B-014</td>
<td>±0.5%</td>
<td>-0.5 to 0.5 in w.c.</td>
</tr>
<tr>
<td>RSME-B-015</td>
<td>±0.5%</td>
<td>-1.00 to 1.00 in w.c.</td>
</tr>
<tr>
<td>RSME-B-016</td>
<td>±0.5%</td>
<td>-2.0 to 2.0 in w.c.</td>
</tr>
<tr>
<td>RSME-C-003</td>
<td>±1%</td>
<td>0.5 in w.c.</td>
</tr>
<tr>
<td>RSME-C-004</td>
<td>±1%</td>
<td>1 in w.c.</td>
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</tr>
</tbody>
</table>

**OPTIONS**

| To order with stainless steel bezel, add "SS" to the end of the part number. |

**EXAMPLE**

Example: RSME-B-003-SS

- **RSME with standard plastic bezel**
- **RSME with stainless steel bezel option**