SRPM Secure-Sense®
Setra Room Pressure Monitor

Applications
- Hospital Patient Isolation Wards
- Pharmaceutical Manufacturing
- Semiconductor Fabs
- Cleanrooms
- Research Laboratories
- Animal Resource Facilities

Features
- Touch Screen Display
- BACnet® Option
- Password Enabled
- Local Audible Alarm
- Visual Red and Green Room Status Displays
- SPST Alarm Relay
- Door Status Monitor
- Variable Alarm Delay
- Positive and Negative Pressure Monitoring
- Bar Graph Display
- CE and RoHS Compliant

Benefits
- Easy to Install, Set-up, and Calibrate
- Fingertip Operation
- Password Security
- Local Display of Room

When it comes to a product to rely on - choose the Model SRPM. When it comes to a company to trust - choose Setra.

setra
ISO-9001 Certified

Further Information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
Setra’s Model SRPM Room Pressure Monitor, available with optional BACnet® network capability for integration in building automation control systems, is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The SRPM can be configured to monitor the positive or negative airflow in protected environments and hospital isolation rooms per CDC guidelines.

The SRPM is a complete system that includes a convenient backlit RGB LCD display with an intuitive graphic user interface for pressure, security, calibration, and alarm setup. The convenient touch-screen allows finger-tip access to menus that guide the user through setup. Visual Red and Green LEDs and a local audible alarm, with a time delay feature to prevent nuisance alarms, alert personnel to system status. The SRPM also features a SPST relay output for remote indication of system status.

True differential pressure is measured and displayed with 0.001 inches of water column resolution. Additional features include multiple selectable analog outputs, output and display averaging and door status indication.

REMOTE ANNUNCIATOR

Setra’s SRAN annunciator allows remote indication of room status at monitoring or nurses station. A GREEN LED indicates a normal room condition, a RED LED and audible alarm signal a breach in room pressure status.
Model SRPM Specifications

Performance Data

<table>
<thead>
<tr>
<th></th>
<th>Code V</th>
<th>Code E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy (RSS)</td>
<td>±0.25%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>(at constant temp)</td>
<td>±0.24%</td>
<td>±0.40%</td>
</tr>
<tr>
<td>Non-Linearity</td>
<td>±0.85%</td>
<td>±0.85%</td>
</tr>
<tr>
<td>(BFSL Based)</td>
<td>±0.85%</td>
<td>±0.85%</td>
</tr>
<tr>
<td>Hysteresis</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>Zero Setting Tolerance</td>
<td>±0.5% FS</td>
<td>±0.5% FS</td>
</tr>
<tr>
<td>Span Setting Tolerance</td>
<td>±0.5% FS</td>
<td>±0.5% FS</td>
</tr>
<tr>
<td>Thermal Effects**</td>
<td>±0.00% FS</td>
<td>±0.00% FS</td>
</tr>
<tr>
<td>Compensated Range</td>
<td>2°F</td>
<td>±1°F</td>
</tr>
<tr>
<td>Overpressure</td>
<td>±0.1°F</td>
<td>±0.1°F</td>
</tr>
</tbody>
</table>

*From non-linearity, non-repeatable, and hysteresis.
**Units calibrated at nominal 70%. Maximum thermal error computed from this data.

Environmental Data

Temperature
- Operating: 32 to +120°F (0 to +50°C)
- Storage: -20 to +160°F (-30 to +70°C)
- Operating Humidity: 5 to 95% RH (Non-condensing)

Physical Description

- Case: Fire-Resistant Plastic
  (NEMA 1, IP20 Rated for Indoor Applications)
- Dimensions: 8.1” H x 5.1” W x 1.8” D
  (205 x 130 x 46 mm)
- Electrical Connection: Removable Terminal Block
- Pressure Fittings: Barbed Fittings for 1/4” O.D. Tubing
- Weight (approx.): 1.5 lbs (680g)
- Mounting: 4 x #10-32 Threaded
  (Mounts to double gang electrical box)

Communications Option

- BACnet®
- MS/TP ASC

Specifications are subject to change without notice.

Display

- LCD
- Status Indicators:
  - Green LED, Normal
  - Red LED, Alarm
  - Backlit LCD

Electrical Data (Voltage)

- Circuit:
  - 3-Wire (Exc., Out, Com)
- Output:
  - 0 to 5 VDC
  - 0 to 10 VDC

Electrical Data (Current)

- Circuit: 2-Wire
- Output: 4 to 20 mA
- External Load: 0 to 510 ohms
- Excitation:
  - Code V1: 85-265 VAC, 50-60 Hz
  - Code A1: 18-32 VAC, 50-60 Hz

Pressure Media

Air or Non-conductive, Non-explosive Gases.

Certifications

- CSA Standard 2022 No 0-M 01
- UL 61010-1 (Second Edition)
- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part-1: General Requirements
- ISO/IEC 61010-1
- Canadian Electrical Part 1
- BACnet Standard C22.2 No. 0.4-04
- BACnet Standard C22.2 No. 61010-1-04
- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part-1: General Requirements

Features

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- Fingertip Operation
- Positive Pressures
- Local Display of Room

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SRPM MENU TREE

Welcome Screen
ROOM PRESSURE MONITOR
setra Systems, Inc.

Menu Button Pressed
Pressure Monitoring Screen
Positive Room
-0.050 in W.C.

Wrong password entered or Number of Tries Exceed the Maximum Number of Tries. Return to Pressure Monitoring Screen

Login Screen
Data ENTRY
Enter Pressure Limits
-0.01 in W.C.

If pressure is Normal, the screen is Green.
If pressure is Normal and Door is open, the screen is Yellow.
If pressure falls outside of preset limits (Alarmed State), the screen is Red.

Touch-Sense Screen
The touch sensitive screen allows easy navigation of the menu tree to configure the SRPM for negative or positive room pressure control.

Data Entry Screen

Login Screen

Wrong PasswordEntered
Wrong Password

Error Code

High Value should be 0 to +FS (0.05) & greater than lower limit.

Password Entered Correctly

Wrong Password Entered
Password Not Entered Correctly

Password Entered Correctly

Main Menu Screen

Login Screen

Data Entry Screen

Alarm Screen

Alarm Screen

Alarm Screen

SETUP MENU

Main Menu Screen

Unit
Room
Alarm
BACnet
Self Test
Calibration

Self Test Screen Test Alarm

ORDERING INFORMATION
Code all blocks in table.
Example: Part No. SRPMMO05WB1E for a SRPM, ±5 in. W.C. Range, 24VAC Exc. with 4 to 20 mA output, and ±0.5% FS Accuracy.

Model SRPM

<table>
<thead>
<tr>
<th>S</th>
<th>R</th>
<th>P</th>
<th>M</th>
</tr>
</thead>
</table>

Model
SRPM = SRPM

Range
Bidirectional
005WB = ±.5 in W.C.
25WB = ±2.5 in W.C.
001WB = ±1.0 in W.C.
05WB = ±.5 in W.C.
325WB = ±0.25 in W.C.
01WB = ±.01 in W.C.
005WB = ±.05 in W.C.

Excitation/Output
A1 = 24 VAC/4-20 mA or 0-5 and 0-10 VDC
V1 = 120/240 VAC/4-20 mA or 0-5 and 0-10 VDC

Accuracy
V = ±0.25% FS
V2 = 120/240VAC BACnet®

“BACnet” is a registered trademark of ASHRAE.
Please contact factory for versions not shown.

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Accessories

Model SRAN
Remote Annunciator
Green LED, Normal Indication
Red LED, Alarm Indication
Buzzer, Audible Alarm, LED from SRPM
Acknowledge Switch

Order Part Number: SRAN

Model RPS
Room Pressure Snubber
(Wall Mount Pressure Tape)
The RPS is a stainless steel room static pressure sensor that has the same footprint (2.3” W x 4.5” H) as your standard electrical wall plate.

Order Part Number: RPS