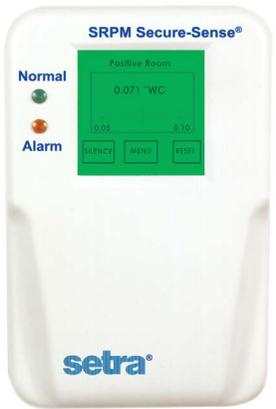


# Model SRPM

## Room Pressure Monitor



NOTE: Setra quality standards are based on ANSI-Z540-1. The calibration of this product is NIST traceable.

U.S. Patent nos. 6019002; 6014800

### DESCRIPTION

Setra SRPM Room Pressure Monitor is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The SRPM can be configured to monitor positive, negative or neutral pressure in protected environments and hospital isolation rooms per CDC guidelines. The SRPM is a complete system that includes a backlit RGB LCD display with a graphic user interface, which enables access to pressure, security, calibration, and alarm setup. The touch-screen displays menus that guide the user through setup, as well as setting up password protection. Red and green LED's and a local audible alarm (with time delay feature) alert personnel to system status. The SRPM has a NEMA 1(IP20) rated fire retardant plastic housing for indoor applications. True differential pressure is displayed with a resolution of .0001". Setra's patented very low pressure capacitance sensor is dead ended and avoids the potential for cross contamination of the room and reference space as well as eliminating drift that results from fouling of flow based sensors, which by nature have a flow path connecting the protected and reference spaces. Additionally there are 2 levels of password protection available as well as optional BACnet MSTP communications.

### 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

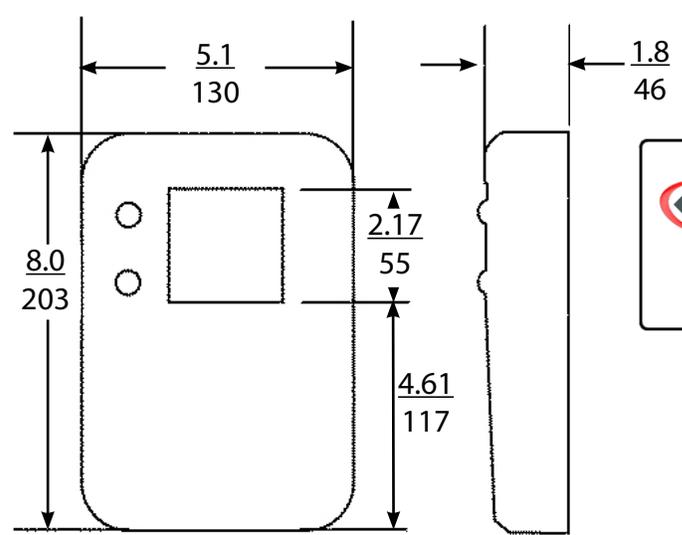
### BENEFITS

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

### APPLICATIONS

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

### DIMENSIONS

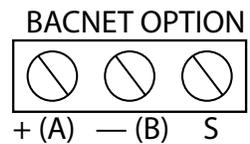
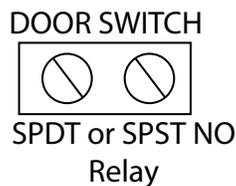
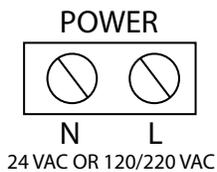
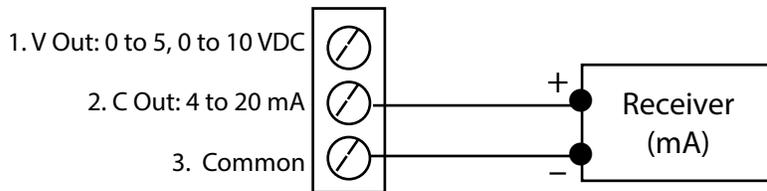
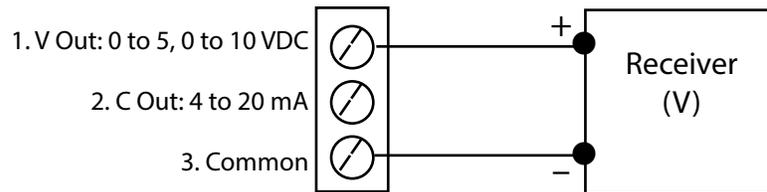


in.  
mm

### SPECIFICATIONS

Performance Data			Environmental Data		Electrical Data (Voltage)		
	Standard	Optional	Operating Temperature <sup>3</sup> °F (°C)	32 to +120 (0 to +50)	Circuit	3-Wire (Exc, Out, Com)	
Accuracy RSS <sup>1</sup> (at constant temp)	±0.25%	±0.5%	Storage Temperature °F (°C)	-20 to +160 (-30 to +170)	Output <sup>4</sup>	0 to 5 VDC, 0 to 10 VDC	
Non-Linearity, BFSL	±0.24%	±0.49%	Operating Humidity	5 to 95% RH (Non-Condensing)	Excitation		
Hysteresis	±0.05%	±0.05%	Physical Description			Code V1	85-265 VAC, 50-60 Hz
Non-Repeatability	±0.05%	±0.05%	Case	Fire-Retardant Plastic (NEMA 1, IP20 Rated for Indoor Applications)	Code A1	18-32 VAC, 50-60 HZ	
Zero Setting Tolerance	±0.05% FS	±0.05% FS	Dimensions	8"H x 5.1"W x 1.8"D (203 x 130 x 46 mm)	Code V2	85-265 VAC, BACnet®	
Span Setting Tolerance	±0.05% FS	±0.05% FS	Electrical Connection	Removable Terminal Block	Code A2	18-32 VAC, BACnet®	
<b>Thermal Effects<sup>2</sup></b>			Pressure Fittings	Barbed Fittings for 1/4" O.D. Tubing	Electrical Data (Current)		
Compensated Range °F (°C)	±0.03% FS (±0.05%FS)		Weight (approx.)	1.5 lbs (680g)	Circuit	2-Wire	
Overpressure	±15"W.C.		Communications Option	BACnet®, MS/TP ASC	Output	4 to 20 mA	
Certifications			Display LCD	128 x 128 RGB Backlit	External Load	0 to 510 ohms	
CSA Standard C22.2 No. 0-M 91	General Requirements - Canadian Electrical, Part 1		Status Indicators	Green LED = Normal Red LED = Alarm Backlit LCD	Excitation: Code V1 Code A1	85-265 VAC, 50-60 Hz 1 8-32 VAC, 50-60 HZ	
CAN/CSA C22.2 No. 0.4-04	Bonding of Electrical Equipment						
CAN/CSA C22.2 610101-1-04	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part 1: General Requirements		Communication Option	MS/TP ASC	<sup>1</sup> RSS of Non-Linearity, Hysteresis, and Non-Repeatability.		
ANSI/UL61010-1 (Third Edition)	Safety Requirements for Electrical Equipment for Measurement, Control		Mounting	2-Gang Plaster Ring (Mounts to 2-Gang electrical box)	<sup>2</sup> Units calibrated at nominal 70°F. Maximum thermal error computed from this datum.		
							<sup>3</sup> Operating Temperature limits of the electronics only.
							<sup>4</sup> Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater. Specifications subject to change without notice.

### WIRING



# Model SRPM

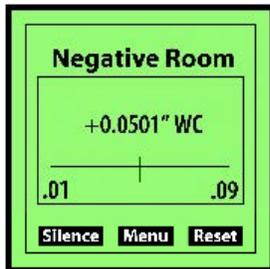
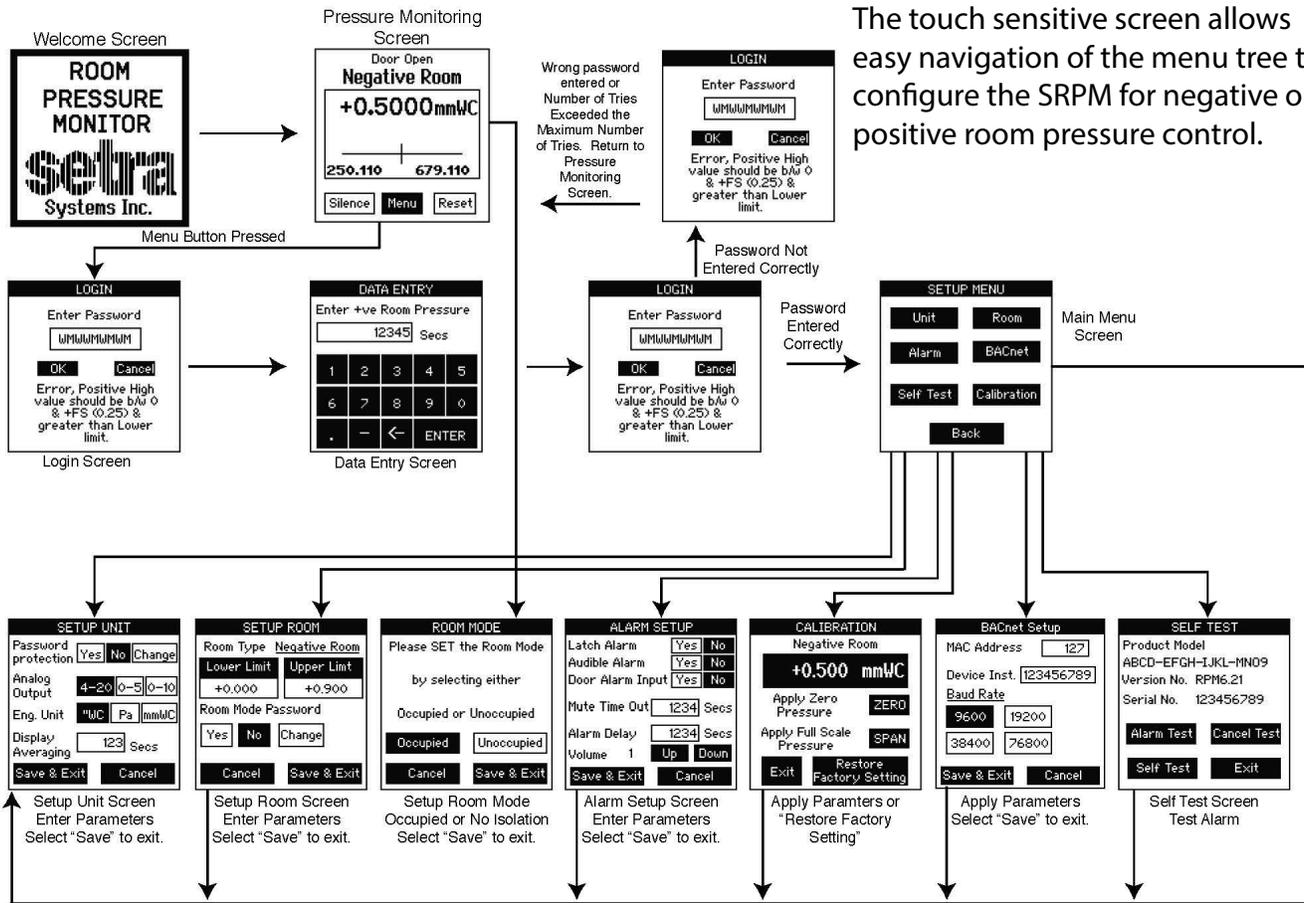
## Room Pressure Monitor



### SRPM MENU TREE

#### 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.



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

### ORDERING INFORMATION

S R P M - [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] [ ]

Model	Range Code	Excitation/Output		Accuracy	
SRPM = SRPM	See Table 1 Below	A1	24 VAC/4-20 mA or 0-5 and 0-10 VDC	E	±0.5% FS
		V1	120/240 VAC/4-20 mA or 0-5 and 0-10 VDC	V	±0.25% FS

RANGE CODE	INCHES W.C.
005WB	±5
2R5WB	±2.5
001WB	±1.0
0R5WB	±0.5
R25WB	±0.25
0R1WB	±0.1
R05WB	±0.05

A2	24 VAC w/ BACnet®
V2	120/240VAC BACnet®



Please contact factory for versions not shown.

Ordering Example: Part No. SRPM005WBA1E for a SRPM, ±5 in. W.C. Range, 24 VAC EXC. with 4 to 20 mA output, and ±0.5% FS Accuracy.

### ACCESSORIES

Model SRAN	
Remote Annunciator	
	Green LED, Normal Indication Red LED, Alarm Indication Buzzer, Audio Alarm, ADJ. from SRPM Acknowledge Switch
Order Part Number: <b>S R A N</b>	

Model RPS	
Room Pressure Snubber (Wall Mount Pressure Taps)	
	The RPS is a stainless steel room static pressure sensor that has the same footprint (2.75" W X 4.5" H) as your standard electrical wall plate.
Order Part Number: <b>R P S</b>	