

**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.

**Warning and Alarm Condition Windows**

**Negative Room**  
-0.026" WC  
-0.02 -0.04  
Silence Menu Reset

If pressure is Normal state the screen is Green.

**Negative Room**  
-0.021" WC  
-0.02 -0.04  
Silence Menu Reset

If pressure is Normal and Door is open the screen is Yellow.

**Negative Room**  
-0.001" WC  
-0.02 -0.04  
Silence Menu Reset

If pressure is in an Alarm (pressure falls outside of preset limits) the screen is Red.

**ORDERING INFORMATION**  
Code all blocks in table.

Example: Part No. 2611005WBA1E for a SRPM, ±5 in. W.C. Range, 24VAC Exc. with 4 to 20 mA output, and ±0.5% FS Accuracy.

S	R	P	M	—		—		—	
Model					Range		Excitation/Output		Accuracy
SRPM= SRPM					Bidirectional				
					005WB= ±5 in. W.C.		A1 = 24 VAC/4-20 mA or 0-5 and 0-10 VDC		E = ±0.5% FS
					2R5WB= ±2.5 in. W.C.		V1 = 120/240 VAC/4-20 mA or 0-5 and 0-10 VDC		
					001WB= ±1.0 in. W.C.				
					OR5WB= ±0.5 in. W.C.				
					R25WB= ±0.25 in. W.C.				
					OR1WB= ±0.1 in. W.C.				
					R05WB= ±0.05 in. W.C.				

Accessories: Model SRAN - Setra Remote Annunciator  
Model RPS - Room Pressure Snubber, wall mount pressure taps  
Please contact factory for versions not shown.





Setra's Model 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 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 fingertip 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 SPDT 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.

The SRPM is compatible with Model 869 Micro-Cal® Expert System Low Pressure and Documenting calibrator for easy "plug n' calibrate" in-situ calibration (shown on right).

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.



SRPM is designed for in-situ pressure calibration, simply remove cover and plug in Model 869's process head.

Model SRPM Specifications

Performance Data

Accuracy RSS* (at constant temp)	±0.5%
Non-Linearity (Terminal) (BFSL Based)	±.35%
Hysteresis	±0.25%
Non-Repeatability	±0.05%
Zero Setting Tolerance	±0.05%
Span Setting Tolerance	±0.5% FS

Thermal Effects\*\*

Compensated Range °F(°C)	±0.03% FS(±0.05% FS)
Overpressure	±1 psi
*RSS of Non-Linearity, Non-Repeatability and Hysteresis.	
**Units calibrated at nominal 70°F. Maximum thermal error computed from this datum.	

Environmental Data

Temperature	
Operating °F (°C)	32 to +120 (0 to +50)
Storage °F (°C)	-20 to +160 (-30 to +70)
Operating Humidity	5 to 95% RH (Non-condensing)
*Operating temperature limits of the electronics only.	

Physical Description

Case	Fire Retardant Plastic (NEMA 1 Rated for Indoor Applications)
Dimensions	8"H x 5.4"W x 1/8"D (20.3 x 13.7 x 4.1 cm)
Electrical Connection	Removable Terminal Block
Pressure Fittings	Barbed Fittings for 1/4" Tubing
Weight (approx.)	1.5 lbs (680g)
Mounting	4 x 4 Plaster Ring (Mounts to double gang electrical box.)

Display

LCD	128 x 128, RGB Backlit
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
Excitation	
Code V1	85-265 VAC, 50-60 Hz
Code A1	18- 32 VAC, 50-60 HZ
Power Consumption	5W
Alarm Output	SPDT Relay
	1A @24 VDC
	1A @ 120 VAC

\*Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater.

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

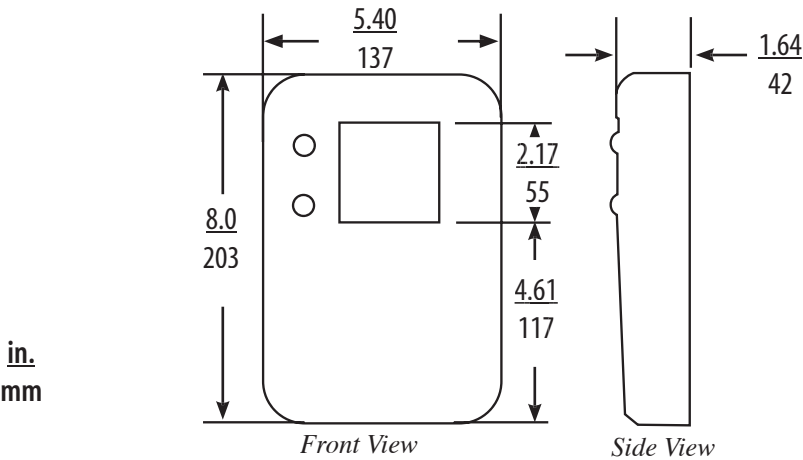
Air or Non-conductive, Non-explosive Gases.

Certifications

CSA Standard C22.2 No 0-M 91	- General Requirements - Canadian Electrical, Part 1
CAN/CSA C22.2 No. 0.4-04	- Bonding of Electrical Equipment
CAN/CSA-C22.2 No. 61010-1-04	-Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part-1: General Requirements
ANSI/UL61010-1 (Second Edition)	- Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part-1: General Requirements

Specifications are subject to change without notice.

SRPM Outline Drawing



Model SRAN Specifications (Option)



Remote Annunciator

- Green LED, Normal Indication
- Red LED, Alarm Indication
- Buzzer, Audio Alarm, ADJ. from SRPM
- Acknowledge Switch

Applications

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

Features

- Touch Screen Display
- Password Enabled
- Local Audible Alarm
- Visual Red and Green Room Status Displays
- SPDT 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 Status

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



Visit Setra Online:  
<http://www.setra.com>

