



# PRESSURE

## ROOM PRESSURE MONITOR

### SRPM SERIES

#### DESCRIPTION

The **Model SRPM** Room Pressure Monitor provides a system for monitoring differential pressures in critical low pressure applications. A backlit LCD provides an intuitive graphical user interface for ease of unit, security and alarm setup. Installation costs and ongoing calibration costs of ownership are significantly reduced. A red LED, green LED, backlit LCD, local audible alarm and optional remote annunciator alert personnel to the status of the system. Additional status indication is available via a relay output (SPDT). Three analog outputs are available in the same unit to interface with BAS system. The Model SRPM is housed in a tough fire resistant plastic housing designed for surface mounting. The attractive case fits into hospital and pharmaceutical applications. Models are available for 120/240 VAC or 24 VAC. The optional SRAN remote annunciator provides a visual and audible warning of room conditions at a remote location.

#### FEATURES

- *Easy, menu-driven programming*
- *Large 2" x 2" LCD touch screen display*
- *0.5% accuracy visual and audible local alarms w/ alarm silence*
- *Built in alarm horn with local alarm silence*
- *Optional remote annunciator available*
- *Selectable analog voltage and milliamp outputs*
- *SPDT alarm relay*
- *Red and green room status LEDs*
- *Display resolution of 0.0001"*
- *Door status monitor*
- *Variable alarm delay*
- *NIST certification included*
- *Optional BACnet MSTP*

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BACNET VERSIONS



#### APPLICATIONS

Typical applications include positive-pressure clean rooms such as pharmaceutical processing areas and negative-pressure isolation rooms such as hospital rooms housing contagious patients.

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#### SPECIFICATIONS

<b>Supply voltage</b>	90 to 270 VAC 50/60 Hz, 24 VAC 50/60 Hz	<b>Display resolution</b>	0.0001" WC
<b>Power</b>	5W	<b>Display units</b>	Inches of Water ("WC), Pascals (Pa)
<b>Accuracy</b>	0.5% FS	<b>Display</b>	LCD, 128x128 RGB backlit
<b>Analog outputs</b>	0-5 VDC (2.5 V @ 0 pressure) 0-10 VDC (5 V @ 0 pressure) 4-20 mA sourcing (12 mA @ 0 pressure)	<b>Pressure connections</b>	Barbed fittings for 1/4" OD tubing
<b>Alarm relay</b>	SPDT, 5A @ 30 VDC, 120 VAC	<b>Mounting</b>	Mounts to a 4" x 4" electrical box
<b>Ranges</b>	±0.05", ±0.1", ±0.25", ±0.5", ±1.0", ±2.5", ±5.0"	<b>Housing rating</b>	NEMA 1
<b>Service</b>	Air or non-conductive, non-explosive gases	<b>Housing material</b>	Fire retardant plastic
<b>Operating temperature</b>	32° to 120°F (0° to 50°C)	<b>Agency approvals</b>	CSA C22.2 No. 1010 Safety
<b>Storage temperature</b>	-20° to 160°F (-30° to 70°C)	<b>Dimensions</b>	5.4"H x 8.0"W x 1.6"D (13.7 x 20.3 x 4.1 cm)
<b>Operating humidity</b>	5 to 95% (non-condensing)	<b>Weight</b>	1.5 lb (0.69 kg)
		<b>Warranty</b>	1 year

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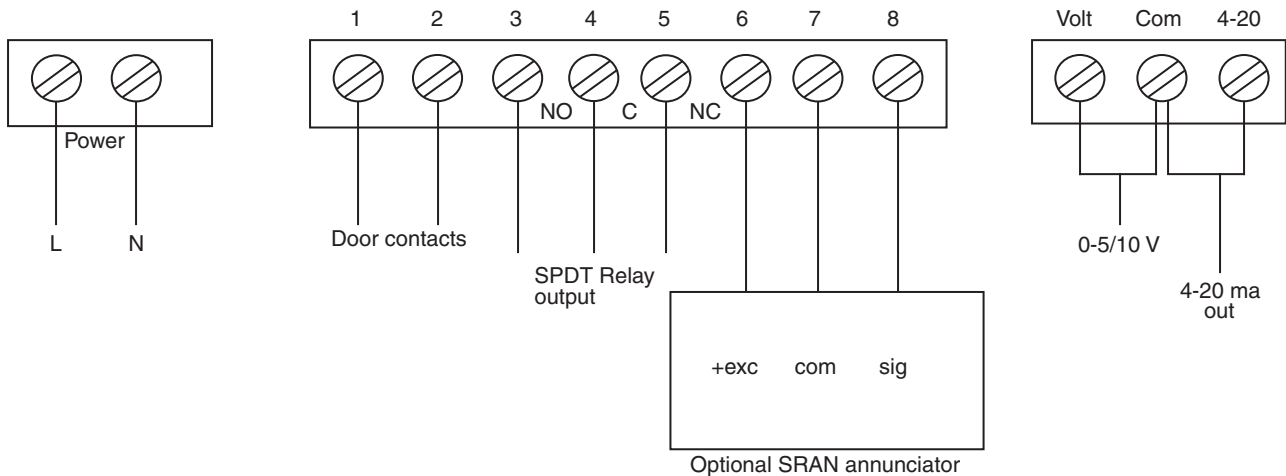
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WIRING



Pressure connections: connect 1/4" tubing from the pressure tap in the monitored room to the pressure fitting labeled "+". Connect 1/4" tubing from the reference area (hallway or anteroom) to the fitting labeled "-".

ORDERING INFORMATION

SRPM	Setra Room Pressure Monitor	
R05WB	±0.05" WC	
0R1WB	±0.1" WC	
R25WB	±0.25" WC	
0R5WB	±0.5" WC	
001WB	±1.0" WC	
2R5WB	±2.5" WC	
005WB	±5.0" WC	
A1	24 VAC Supply voltage	
V1	120 VAC Supply voltage	
A2	24 VAC Supply, BACnet	
V2	120 VAC Supply, BACnet	
V	0.25% Accuracy	
E	0.5% Accuracy	

**Example:** SRPM-001WB-A1-E SRPM pressure monitor measuring ±1.0" W.C. pressure 24VAC supply voltage at 0.5% accuracy.

RELATED PRODUCTS

**SRAN** Remote annunciator with red and green status LEDs, audible alarm and acknowledge switch  
**4BX11234** 4" square electrical box, 1-1/2" deep with 1/2" and 3/4" knockouts