



PRESSURE

ROOM PRESSURE MONITOR

SRPM

DESCRIPTION

The **Setra Model SRPM Room Pressure Monitor** provides a system for monitoring differential pressures in critical low pressure applications. A backlit LCD provides an intuitive graphic user interface for ease of unit, security and alarm setup. Installation costs and on going calibration costs of ownership are significantly reduced. A red LED, green LED, backlit LCD, local audible alarm and optional remote annunciator alert personnel of the status of the system. A SPDT relay output is also available for additional status indication. 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*
- *0.25% or 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 milli-amp outputs*
- *SPDT alarm relay*
- *Red and green room status LEDs*
- *Display resolution of 0.001"*
- *Door status monitor*
- *Variable alarm delay*
- *NIST certification included*
- *Optional BACnet MSTP*



BACNET VERSIONS

APPLICATION

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

Optional 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.

SPECIFICATIONS

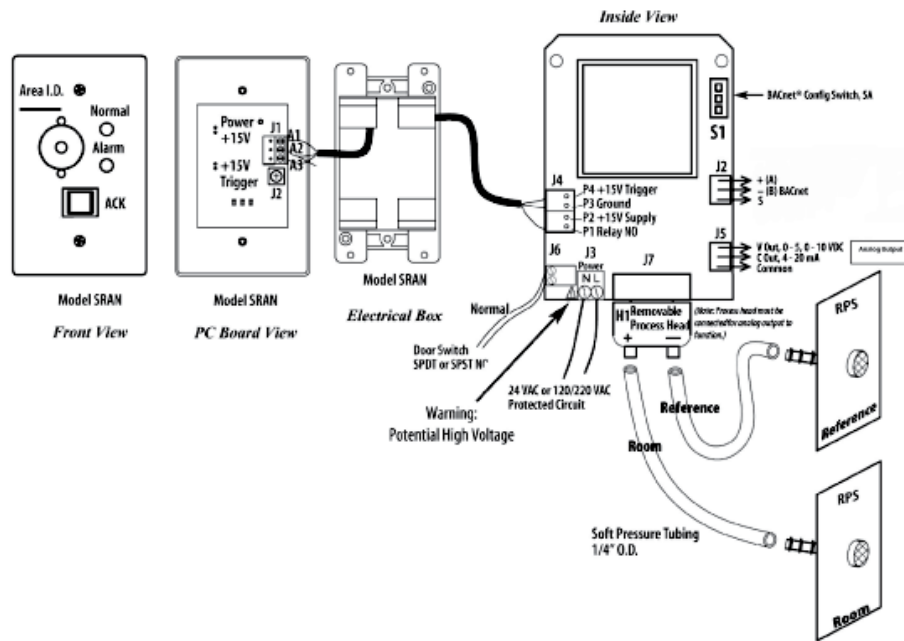
Supply Voltage	18-32 VAC or 85-265 VAC, 50/60 Hz, 5VA	Adjustments (Loop Tuning)	Password protected (Burst) $\pm 15"$ WC (3.7 kPa)
Accuracy	$\pm 0.5\%$ or opt. $\pm 0.25\%$ Full Scale (NIST included)	Overpressure	(Proof) $\pm 15"$ WC (3.7 kPa)
Resolution	0.0001" WC	Max Operating Pressure	32° to 120°F (0° to 50°C)
Signal Output	Analog output selectable 0-5 VDC @ 5K Ω (2.5 V @ 0 psi) 0-10 VDC @ 5K Ω (5 V @ 0 psi) 4-20 mA @ 510 Ω sourcing (12 mA @ 0 psi)	Operating Temperature	5 to 95% RH (Non-condensing)
Relay Type	SPDT	Operating Humidity	Stainless steel, glass, silicone, brass, steel
Relay Rating	1 A @ 30 VDC, 120 VAC	Wetted Parts	Inert dry air
Digital Input	Dry contact door switch	Media Compatibility	Two-3/16" OD brass H/L, for 1/4" OD tubing
Setpoint Adjust	Alarm value set on touch screen	Process Connection	10 removable terminals
Local Control Type	Single room DP monitor & Transmitter	Wiring Terminations	Surface into a 2 gang box w/plaster ring
Communication	BACnet MS/TP (Optional)	Mounting	Plastic NEMA 1 (IP20), UL94V-0
Field Interface Devices (Order Separately)		Enclosure Rating	5.4"W x 8.0"H x 1.8"D (13.7 x 20.3 x 4.6 cm)
RPS	Stainless Steel room pressure probe	Dimensions	1.5 lb (0.69 Kg)
SRAN	Remote Alarm Annunciator	Weight	CSA C22.2 No. 1010 Safety, ANSI 1 year
Display/Audible	2" x 2" 3-color Backlit LCD touch screen Two LED (RED = Alarm, GRN = Power) Audible alarm w/ silence switch	Approvals	
Sensor Type	Capacitive	Warranty	

setra





WIRING



ORDERING INFORMATION

Model	Description
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

4BX11234
RPS
RPS-I
RPS-W
SRAN
T-101

4" square steel box 1-1/2" deep, 1/2" and 3/4" KO
Stainless steel room pressure sensor, 1/4" barb
Ivory plastic room pressure sensor, 1/4" barb
White plastic room pressure sensor, 1/4" barb
Remote annunciator with red and green status LEDs,
audible alarm and acknowledge switch
1/4" OD black poly tubing, 1 coil, 250 ft (76 m)