



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

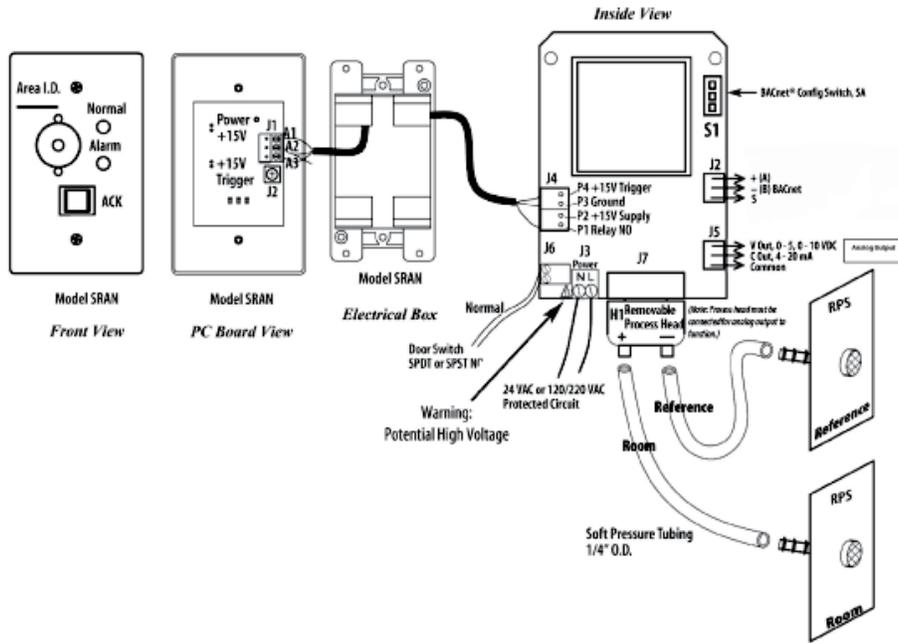
Setra's SRAN annunciator allows remote indication of room status at monitoring or nurses station. A GREEN LED indicates a normal room condition, a RED LED and audible alarm signal a breach in room pressure status.

SPECIFICATIONS

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



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)