

## PRODUCT DATA SHEET

## ■ Introduction

The Hospi-Gard® Room Pressure Monitor installs easily on any wall and can be used for both positive and negative pressure rooms.

The SRPM Room Pressure Monitor is designed for critical low differential pressure applications that require stringent monitoring and alarming. The SRPM can be configured to monitor either positive-pressure clean rooms such as pharmaceutical processing areas as well as negative-pressure environments such as hospital isolation rooms per CDC guidelines. The SRPM is available with optional BACnet network capability for integration in building automation control systems.

The SRPM Room Pressure Monitor is available in ranges up to  $\pm 5.0$  inH<sub>2</sub>O or  $\pm 1000$  Pa. Standard accuracy is  $\pm 0.50\%$  FS with optional  $\pm 0.25\%$  FS accuracy available. 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 finger-tip 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 SPST relay output for remote indication of system status. Three analog outputs are available in the same unit to interface with BAS system.

## ■ 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



## ■ Annunciator, Model SRAN

The Remote Annunciator (SRAN) allows remote indication of room pressure status at monitoring/nurses station. A Green LED indicates a Normal room condition, a Red LED and Audible Alarm signal a breach in room pressure status.

The SRAN is the same size as a standard electrical wall plate (2.75" W x 4.5" H) and fits flush to the wall. It can be mounted to the wall using a standard electrical box.

Under normal conditions the Green LED remains on. When an alarmed condition occurs (i.e., room pressure falls outside preset range), a signal is triggered by the SRPM, the Green LED shuts off, the Red LED flashes and the Audible Alarm sounds. The acknowledge button can be pressed to momentarily turn-off the Audible Alarm and the Red LED will continue to flash until the alarmed condition is corrected. When the alarmed condition is corrected the annunciator will reset itself. The Green LED will turn-on, the Red LED and Audible alarm will shut-off.

## ■ Part Numbers

- » 63337-002 120/240V BACnet
- » 63337-001 120/240V 0-10 VDC
- » 63338 Annunciator

## ■ Warranty

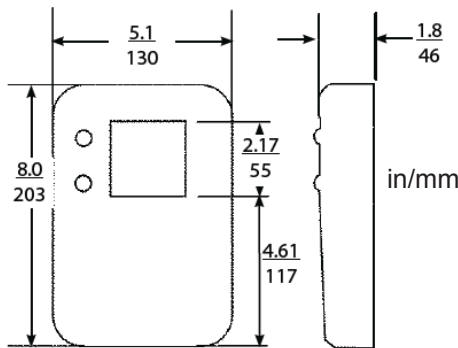
- » Limited 1-year warranty.

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■ 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 18-32 VAC, 50-60 Hz
Non-Repeatability	±0.05%	±0.05%	Case	Fire-Retardant Plastic (NEMA 1, IP20 Rated for Indoor Applications)	Code A1	
Zero Setting Tolerance	±0.05%FS	±0.05%FS	Dimensions	8"H x 5.1"W x 1.8"D (203x130x46 mm)	Code V2	85-265 VAC, BACnet® 18-32 VAC, BACnet®
Span Setting Tolerance	±0.05%FS	±0.05%FS	Electrical Connection	Removable Terminal Block	Code A2	
Thermal Effects <sup>2</sup>			Pressure Fittings	Barbed Fittings for 1/4" O.D. Tubing	Alarm Output	SPDT Relay: 1A @ 24 VDC, 1A @ 120 VDC
Compensated Range °F (°C)	±0.03% FS (±0.05%FS)		Weight (approx.)	1.5 lbs (680g)	Power Consumption	5W
Overpressure	±15"W.C.		Communications Option	BACnet® MS/TP ASC	Electrical Data (Current)	
Certifications			Display LCD	128 x 128 RGB Backlit	Circuit	2-Wire
CSA Standard C22.2 No. O-M 91	General Requirements - Canadian Electrical Part 1		Status Indicators	Green LED=Normal Red LED=Alarm Backlit LCD	Output	4 to 20 mA
CAN/CSA C22.2 No. 0.4-04	Binding of Electrical Equipment		Communication Option BACnet®	MS/TP ASC	External Load	0 to 510 ohms
CAN//CSA C22.2 610101-1-04	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part 1:General Requirements		Mounting	2-Gang Plaster Ring (Mounts to 2-Gang electrical box)	Excitation: Code V1 Code A1	85-265 VAC, 50-60 Hz 1 8-32 VAC, 50-60 Hz
ANSI/UL61010-1 (Third Edition)	Safety Requirements for Electrical Equipment for Measurement, Control		NOTES: <sup>1</sup> RSS of Non-Linearity, Hysteresis, and Non Repeatability. <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.			

■ Setra Dimensions



■ Annunciator Specifications

**Enclosure:** 2.75" W x 4.5" H aluminum wall cover plate

**Display Panel:** Red and Green LED Indicators Acknowledgement Switch

**External Power Supply:** 15 VDC, 50 mA Max.

**Audible Alarm:** 0 dBA - 85 dBA measured 4 inches from annunciator

**Time Delay:** Adjusts at (SRPM) Room Pressure Monitor

**Note:** The SRAN operates with the SRPM or with any dry contact and an external power supply