Model SRCM

Room Condition Monitor

Features

- On-board Sensor - Industry Best Accuracy
- 4.3" Color Touch Screen for Easy Setup and Room Display
- Monitor up to 4 Parameters - Pressure, Temp, RH, User-Defined (ex. CO2, LUX)
- Wipe-down Capable IP-54 Flush Mount Design
- Configurable Audible & Visual Alarms to Avoid Nuisance
- Easy Mounting into off-the-shelf Electrical Gang Box
- Reduce Installation Time with Unit Clone Feature
- Full Banner Feature - Customize Display Text

Where We're Installed

- Harvard Medical School
- Memorial Sloan Kettering Cancer Center
- St. Judes Medical Center
- UC San Francisco Medical Center
- Veterans Affairs (VA) Hospital

The SRCM is the highest performance BACnet capable product for measuring low differential pressure in critical applications. Unlike the SRPM, the SRCM can monitor and alarm two rooms through one device, as well as display 3 additional parameters such as temperature, humidity & CO2. The SRCM builds upon the SRPM's feature set by adding cloning functionality via a USB port, which ensures time and money savings on installation in applications where multiple monitors are required. The SRCM also has a 4.3" color LCD touch screen for easy menu navigation as well as a flush mount design. The SRCM provides the ability for custom naming for all rooms and conditions while including two-level password protection.

Monitor and alarm multiple rooms

The SRCM is designed to give the user flexibility and dependability in the most critical applications. The SRCM has an expanded feature set that includes 2 analog inputs to allow the user to monitor temperature and humidity, as well as a user defined parameter. The SRCM also has a digital input to be used for a door alarm, ensuring that there are no breaches in the critical environment.

On-board dead-ended pressure sensor

Protection and isolation rooms are designed to adhere to strict standards in order to provide a proper barrier between the room and reference space. Unlike a flow-through design, the SRCM utilizes an on-board dead-ended low differential pressure sensor. This technology provides the user with a trusted solution & peace of mind that the sensor will prevent contaminated air from passing through it.

Save time and money on installation and calibration

The SRCM is designed with both the installer and end user in mind. The BACnet enabled unit can be installed in an off-the-shelf electrical box, improving the ease of installation instead of having to use a custom electrical box that is not typically available at the rough stage of the project. The SRCM offers push button zero and span calibration that is easily performed by any low differential pressure calibrator and can be calibrated in minutes.

1 YEAR WARRANTY

USA Made

Specifications

Physical Description

Operating temperature	32° to 120°F (0° to 50°C)
Storage temperature	-20° to 160°F (-30° to 70°C)
Operating humidity	5 to 95% RH (Non-Condensing)
Case material	Fire Retardant Plastic UL94 V-0
Dimensions	5.84"H x 7.45"W x 0.38"D (14.84 x 18.92 x 0.95 cm)
Weight	1 lb. 3.2 ounces (554 g)

Thermal effects[3]

Compensated range	40° to 120°F (4.5° to 50°C)
Zero/Span Shift %FS	±0.03% FSI (±0.05% FS)
Overpressure	±1 PSI (15" W.C. for ≤ 0.10" W.C. F.S.)

Performance data

	Code F	Code H
Accuracy RSS[1]	±0.25%	±0.5%
Non-Linearity (BFSL)	±0.24%	±0.49%
Hysteresis	±0.05%	±0.05%
Non-Repeatability	±0.05%	±0.05%
Span Setting Tol.[2]	±0.5% RDG	±0.5% RDG

General

LCD Display	4.3" TFT, 480x272, Dimmable
Pressure connections	Barbed Fittings for 1/4" O.D. Tubing
Electrical connections	Removable Terminal Block
Mounting	Mounts to a triple gang double-deep electrical box
Pressure media	Air or Non-Conductive, Non-Explosive Gases.

Inputs & outputs

Analog Inputs (2)	0-5 VDC, 0-10 VDC or 4-20 mA input signal use external sensors for pressure, temperature, humidity or any suitable application
Digital Input (1)	Dedicated for use as input for door status. Normally-closed contact to be wired to a door jamb or pressure switch
Analog Output (1)	0-5 VDC, 0-10 VDC or 4-20 mA output signal for differential pressure of primary room only
Relay Output (1)	15 VDC SPDT NO/NC relay. Use as remote alarm annunciator or other NO/NC applications
Wire	Stranded shielded twisted pair, 16-24 AWG .14-1.5 mm² cross-sectional area

* Installer must provide 250 Ω resistor required for 4-20 mA signal

Electrical data (Current)

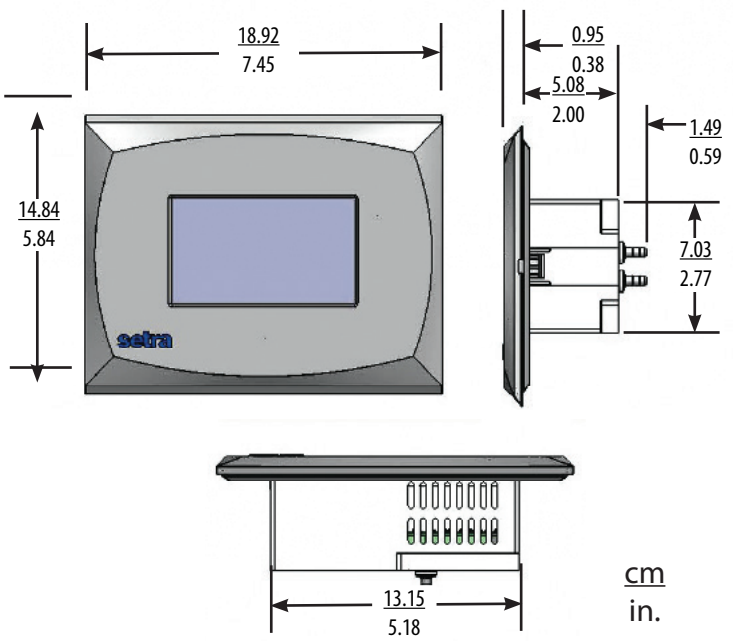
Circuit	2-Wire
Output	4-20 mA
External Load	0 to 510 ohms
Excitation	18-32 VAC

Electrical data (Voltage)

Circuit	3-Wire (Exc, Out, Com)
Output[5]	0-5 VDC, 0-10 VDC
Alarm Output	SPDT Relay: 0.6A @ 120 VDC, 2A @ 30 VDC
Power Consumption	10 W max., 3 W typ.
Excitation	18-32 VAC, 50-60 HZ

[1] RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
[2] Zero setting tol. negated by zero push button.
[3] Units calibrated at nominal 70°F. Maximum thermal error computed from this datum.
[4] Operating Temperature limits of the electronics only.
[5] Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater.

Dimensions



Ordering information

Example part number: *SRCMR05WBA1HNS*
SRCM, ±0.05"WC Range, 24VAC/4-20 mA, 0.5% Full Scale Accuracy, No Pressure Snubber

S	R	C	M											
[1]				[2]					[3]		[4]	[5]	[6]	

[1]

Model	
SRCM	Room Condition Monitor

[2]

Range Code	
W.C.	
R05WB	±0.05
0R1WB	±0.10
R25WB	±0.25
0R5WB	±0.50
001WB	±1.00
2R5WB	±2.50
005WB	±5.00
Pascal	
Z02LB	±12.5
025LB	±25
050LB	±50
100LB	±100
250LB	±250
500LB	±500
10CLB	±1000

[3]

Excitation / Output	
A1	24 VAC/4-20 mA or 0-5 and 0-10 VDC
A2	24 VAC w/ BACnet®

[4]

Accuracy	
H	±0.5% FS
F	±0.25% FS

[5]

Pressure Snubber*	
N	Quantity 0
1	Quantity 1
2	Quantity 2

[6]

Faceplate	
S	Setra Logo
B	Blank

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Specifications subject to change.