



# PS-SRCM Series

Room Pressure Monitor



## Overview

The Room Pressure and Condition Monitor utilizes highly accurate capacitance sensing technology to measure and display true low pressure differential. A room pressure monitor is employed to measure and alert the individual of any change in pressure - no matter how small.

## Applications

- Hospitals, Medical Centers, and Schools
- Simultaneously Monitor and Display 4 Parameters Per Room (up to 2 rooms)

## Features & Benefits

- True Pressure Measurement
- Display 4 Ambient Parameters: Pressure, Temperature, Humidity, User-Defined (ex., CO<sub>2</sub>, LUX)
- Flush Mount Design
- BACnet® Communications
- Alarm Capabilities
- Full Banner Feature
- Clone Feature
- Ease of Installation

## Accessories

### Pitot Tubes for Flow

PS-PF006XXXX	150 mm (6") stainless pitot tube for flow installations
PS-PF012T072	305 mm (12") stainless pitot tube for flow installations
PS-PF006T072	Two (2) 150 mm (6") stainless pitot tubes for flow installations with 1800 mm (6') pneumatic tubing
PS-PF012T072	Two (2) 305 mm (12") stainless pitot tubes for flow installations with 1800 mm (6') pneumatic tubing

### Pitot Tubes for Static Pressure

PS-PS006XXXX	150 mm (6") stainless pitot tube for static installations
PS-PS012XXXX	305 mm (12") stainless pitot tube for static installations
PS-PS006T036	One (1) 150 mm (6") stainless pitot tube for static installations with 900 mm (3') pneumatic tubing
PS-PS012T036	One (1) 305 mm (12") stainless pitot tube for static installations with 900 mm (3') pneumatic tubing

### PS-PAFS Series

#### Pick-Up Ports

PS-RPSP	Space enclosure pick-up port
PS-RMPP	Stainless steel plate pick-up port
PS-OPSP	Outside air pick-up port

## Model Selection

		PS-SRCM	R05WB	A1	H	N	B
Pressure Range	R05WB = ±0.05 inches W.C. 0R1WB = ±0.10 inches W.C. R25WB = ±0.25 inches W.C. 0R5WB = ±0.50 inches W.C. 001WB = ±1.00 inches W.C. 2R5WB = ±2.50 inches W.C. 005WB = ±5.00 inches W.C. Z02LB = ±12.5 Pascals 025LB = ±25 Pascals 050LB = ±50 Pascals 100LB = ±100 Pascals 250LB = ±250 Pascals 500LB = ±500 Pascals 10CLB = ±1000 Pascals						
Excitation/Output	A1 = 24 VAC/4-20 mA or 0-5 and 0-10 VDC A2 = 24 VAC w/BACnet®						
Accuracy	H = ±0.5% FS F = ±0.25% FS						
Pressure Snubber	N = 0 1 = 1 2 = 2						

# Product Specifications

## Performance Data

Code F:

□ Accuracy RSS <sup>1</sup> (at constant temp)	±0.25% FS
□ Non-Linearity (BFSL based)	±0.24%
□ Hysteresis	±0.05%
□ Non-Repeatability	±0.05%
□ Zero/Span Tolerance	±0.05% FS

Code H:

□ Accuracy RSS <sup>1</sup> (at constant temp)	±0.5%
□ Non-Linearity (BFSL based)	±0.49%
□ Hysteresis	±0.05%
□ Non-Repeatability	±0.05%
□ Zero/Span Tolerance	±0.05% FS

## Pressure Media

Air or Non-Conductive, Non-Explosive Gases.

## Environmental Data

Operating Temperature <sup>3</sup>	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)

## Physical Description

Case	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)
Electrical Connection	Removable Terminal Block
Pressure Fittings	Barbed Fittings for 1/4" O.D. Tubing
Weight (approx.)	1 lb. 3.2 ounces (554 grams)
Mounting	Mounts to a triple gang double-deep electrical box

## Communications Option

BACnet®	MS/TP ASC
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## Display

LCD	4.3" TFT, 480 x 272, Dimmable
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## Electrical Data (Voltage)

Circuit	3-Wire (Exc, Out, Com),
Output <sup>4</sup>	0 to 5 VDC, 0 to 10 VDC
Excitation	18-32 VAC, 50-60 HZ
Power Consumption	10 W max., 3 W typ.
Alarm Output	SPDT Relay: 0.6A @ 120 VAC, 2A @ 30 VDC

## Electrical Data (Current)

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

Thermal Effects<sup>2</sup>

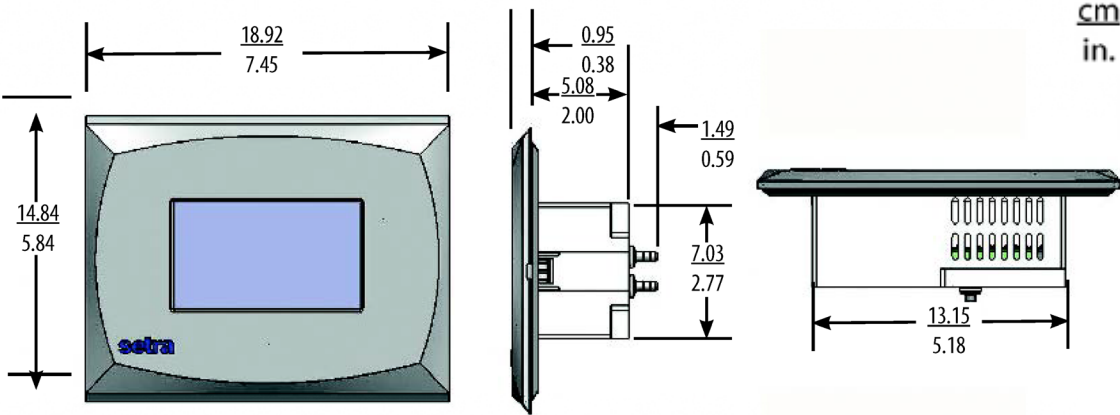
Compensated Range °F (°C) \_\_\_\_\_ ±0.03% FSI (±0.05% FS)  
Overpressure \_\_\_\_\_ ±1 PSI (15" W.C. for ≤ 0.10" W.C. F.S.)

Certifications

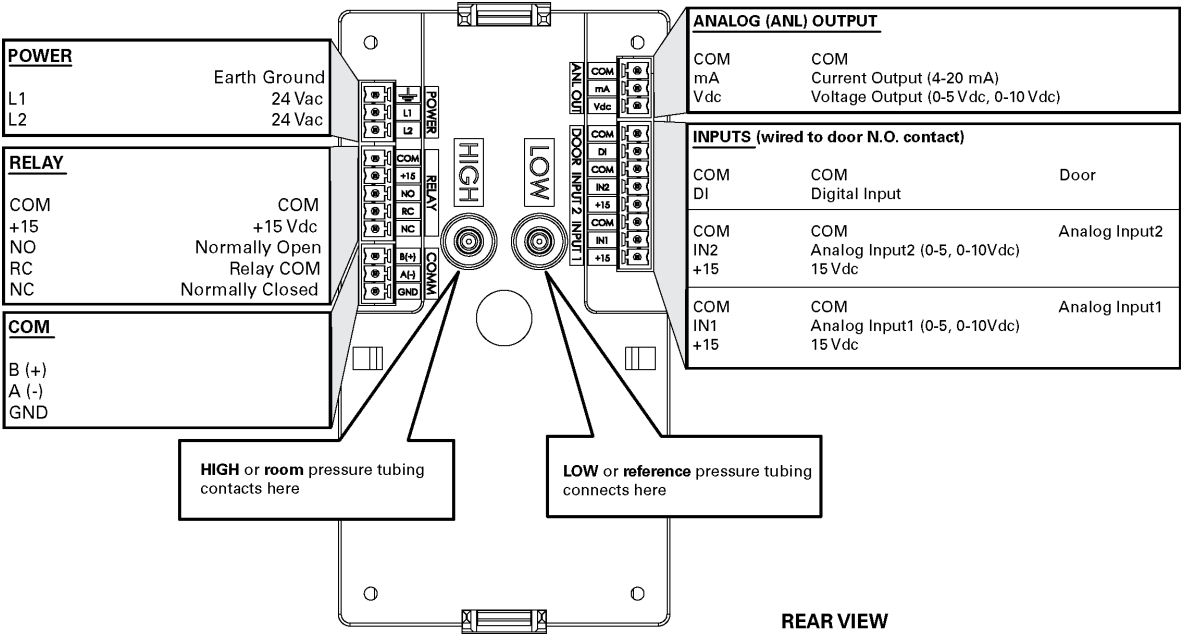
CE \_\_\_\_\_ Electro-Magnetic Compatibility  
Directive 2004/108/EC  
Low-Voltage Directive 2006/95/EC RoHS Directive 2011/65/EC  
CSA \_\_\_\_\_ CAN/CSA - C22.2 No. 61010-1-04  
ANSI/UL 61010-1, 3<sup>rd</sup> Edition

- 1. RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
- 2. Units calibrated at nominal 70°F. Maximum thermal error computed from this datum.
- 3. Operating Temperature limits of the electronics only.
- 4. Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater. Specifications subject to change without notice.

Dimensions



Wiring



Specifications subject to change without notice.  
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