Model SRCM
Room Pressure and Condition Monitor

FEATURES

■ True Pressure Measurement
  - High accuracy Accutrol low differential technology
  - Dead ended solution — no contamination or clogging
  - Standard on-board sensor and optional remote sensor

■ Display 4 Ambient Parameters
  - Pressure, Temperature, Humidity, User-Defined (ex., CO2, LUX)

■ Flush Mount Design
  - No visible mounting fasteners
  - Snap-in flush bezel
  - Face is sealed for cleaning or wipe-down

■ Full Banner Feature
  - Utilize same monitor for room condition
  - Clearly display condition with facility specific nomenclature

■ Clone Feature
  - Display rotates up for access to USB port
  - On-board USB port—cloning of configurations for multiple unit installation

■ BACnet® Communications
  - Installed or field upgrade for in-situ installation
  - BACnet® MSTP/ASC
  - All setups configurable through touch screen display

■ Alarm Capabilities
  - Local Audible and Visual alarming
  - Remote annunciator alarming capability
  - Alarm delay feature—prevent nuisance alarms

■ Ease of Installation
  - Mounts in off-the-shelf electrical gang box
  - 4-screw self leveling mount
  - Labeled, removable termination strips—ease of wiring

NOTE: Accutrol quality standards are based on ANSI-Z540-1. The calibration of this product is NIST traceable.
U.S. Patent nos. 6019002; 6014800

DESCRIPTION
In a hospital, laboratory or animal research facility, the integrity of the ventilation control system is at the heart of a contaminant free environment. Whether a room is to be maintained at a negative pressure to prevent contaminants from escaping into adjacent areas or positive pressure to protect patients with compromised immune systems, the proper pressurization of the room is essential. To assure proper pressurization is maintained in these critical environments, a room pressure monitor is employed to measure and alert staff and personnel of any change in pressure—no matter how small. A fail-safe solution to monitoring these very low pressure changes is Accutrol’s Model SRCM room pressure monitor, which utilizes highly accurate capacitance sensing technology to measure and display true low pressure differential.

Accutrol’s “2 in 1” Solution
The Environment is Critical, the Control is Easy

Ambient Parameters

SRCM
**Model SRCM**

**Room Pressure and Condition Monitor**

### Attractive, Intuitive, and Configurable Design

- **Simultaneously Monitor and Display 4 Parameters Per Room (up to 2 rooms)**

  - **Selectable Room Condition Banners**
    - 1/3 Screen Banners
  - **Full Screen Banners**

- **Display 4 Ambient Parameters (slide bar off)**
  - Pressure, Temperature, Humidity, and User-Defined Parameter

- **Setup Menu**
  - Password Protected Entry to Menu Structure

- **Setup Display Banner**
  - User Defined Text: Free form data entry for room name
  - Room Status: Change room from Isolation to No Isolation

- **Setup Display Advanced**
  - Display Contrast: Change brightness of display
  - Display Averaging: Improve display resolution in unstable ambient pressure environments
  - Display Ambient Parameters: Display primary and secondary rooms or toggle between 2 rooms
  - Enable Password: Administrator and Supervisor

- **Setup Unit Operation**
  - Setup primary and secondary room
  - Change analog output
  - Free form data entry for room name

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**Fingertip Access for Easy Setup**

- **Room I.D.**
  - Customer Configurable Feature - Customize Room Name

- **Room Pressure Mode**
  - Display Positive, Negative, or Neutral Mode of Room

- **Room Pressure Status**
  - Visual Indication of Normal, Warning, and Alarm Condition

- **Displayed Pressure**
  - Displays Room Pressure in User Selectable Units

- **Pressure Slide Bar On**
  - Graphic Display of Pressure Reading Relative to Alarm Setpoints

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**Setup Display Banner**

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**Setup Unit Operation**

- Setup primary and secondary room
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### SPECIFICATIONS

#### Performance Data

<table>
<thead>
<tr>
<th>Code F</th>
<th>Code H</th>
</tr>
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</table>
| Accuracy RS 
(at constant temp) | ±0.25% FS | ±0.5% |
| Non-Linearity (BFSI based) | ±0.24% | ±0.49% |
| Hysteresis | ±0.05% | ±0.05% |
| Non-Repeatability | ±0.05% | ±0.05% |
| Zero/Span Tolerance | ±0.05% FS | ±0.05% FS |

#### Environmental Data

- Operating\(^2\) Temperature °F (°C): 32 to + 120 (0 to +50)
- Storage Temperature °F (°C): -20 to + 160 (-30 to +70)
- Humidity: 5 to 95% RH (non-condensing)
- Excitation: 18-32 VAC, 50-60 HZ

#### Electrical Data (Voltage)

- Circuit: 3-Wire (Exc, Out, Com), 10 W max., 3 W typ.
- Power Consumption: SPDT Relay: 0.6A @ 120 VAC, 2A @ 30 VDC

#### Pressure Media

- Air or Non-Conductive, Non-Explosive Gases.

#### Certifications

- CE
- Low-Voltage Directive 2006/95/EC
- RoHS Directive 2011/65/EC

#### Code F H

- Specifications subject to change without notice.

### DIMENSIONS

- Dimensions: 5.84"H x 7.45"W x 0.38"D (14.84 x 18.92 x 0.95 cm)

### WIRING

**ANALOG (ANL) OUTPUT**
- COM: COM
- mA Current Output (4-20 mA)
- Vdc Voltage Output (0-5 Vdc, 0-10 Vdc)

**INPUTS (wired to door N.O. contact)**
- COM COM  Door
- DI Digital Input
- Analog Input 2
- IN2 Analog Input2 (0-5, 0-10 Vdc)
- +15 15 Vdc
- COM COM  Analog Input 1
- IN1 Analog Input1 (0-5, 0-10 Vdc)
- +15 15 Vdc

**POWER**
- Earth Ground
- L1 L2

**REAR VIEW**

**RELA Y**

\(^1\) 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 10k ohm load, operable into a 100k ohm load or greater.

Specifications subject to change without notice.

**Display**

- LCD: 4.3" TFT, 480 x 272, Dimmable

**Electrical Data (Current)**

- Circuit: 2-Wire
- Output: 4 to 20 mA
- External Load: 0 to 510 ohms

**Communications Option**

- BACnet®
- MS/TP ASC

**Mounting**

- Mounts to a triple gang deep-electrical box

**Electrical Data (Voltage)**

- Excitation: 18-32 VAC

**Thermal Effects\(^2\)**

- Overpressure: ±1 PSI (15”WC. for ≤ 0.10”WC. F.S.)

**补偿 Range °F (°C)**

- ±0.03% FSI (±0.05% FS)


**Low-Voltage Directive 2006/95/EC**

**RoHS Directive 2011/65/EC**

**CE**

**Weight (approx.)**

- 1 lb. 3.2 ounces (554 grams)

**Electrical Connection**

- Removable Terminal Block

**Communications Option**

- BACnet®
- MS/TP ASC
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ORDERING INFORMATION

Model SRCM
- Range Code
- Excitation/Output
- Accuracy
- Pressure Snubber
- Faceplate

SRCM = SRCM
See Table 1 Below

<table>
<thead>
<tr>
<th>Model</th>
<th>Range Code</th>
<th>Excitation/Output</th>
<th>Accuracy</th>
<th>Pressure Snubber*</th>
<th>Faceplate</th>
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<tbody>
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<td>SRCM</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

A1 24 VAC/4-20 mA or 0-5 and 0-10 VDC
H ±0.5% FS
N 0
S Accutrol Logo
B Blank

A2 24 VAC w/ BACnet*
F ±0.25% FS
1 1
2 2

Table 1. Range Specification

<table>
<thead>
<tr>
<th>RANGE CODE</th>
<th>INCHES W.C.</th>
<th>RANGE CODE</th>
<th>PASCALS</th>
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<tbody>
<tr>
<td>R05WB</td>
<td>±0.05</td>
<td>Z02LB</td>
<td>±12.5</td>
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<tr>
<td>0R1WB</td>
<td>±0.10</td>
<td>02SLB</td>
<td>±25</td>
</tr>
<tr>
<td>R25WB</td>
<td>±0.25</td>
<td>050LB</td>
<td>±50</td>
</tr>
<tr>
<td>0R5WB</td>
<td>±0.50</td>
<td>100LB</td>
<td>±100</td>
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<tr>
<td>001WB</td>
<td>±1.00</td>
<td>250LB</td>
<td>±250</td>
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<tr>
<td>2R5WB</td>
<td>±2.50</td>
<td>500LB</td>
<td>±500</td>
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<tr>
<td>005WB</td>
<td>±5.00</td>
<td>10CLB</td>
<td>±1000</td>
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<tr>
<td>000WB</td>
<td>±10.00</td>
<td>4000LB</td>
<td>±10000</td>
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</tbody>
</table>

Ordering Example: Part No. SRCMR05WBA1HNS for A SRCM, ±0.05"WC Range, 24VAC/4-20 mA, 0.5% Full Scale Accuracy, NO Pressure Snubber

* For other pressure fitting configurations, please contact factory.

ACCESSORIES

Model SRAN
Remote Annunciator
- Green LED, Normal Indication
- Red LED, Alarm Indication
- Buzzer, Audio Alarm, ADJ. from SRPM Acknowledge Switch

Order Part Number: S R A N

Pressure Snubber
Room Pressure Snubber (Wall Mount Pressure Taps)
The RPS is a stainless steel room static pressure sensor that has the same footprint (2.75" W X 4.5"H) as your standard electrical wall plate.