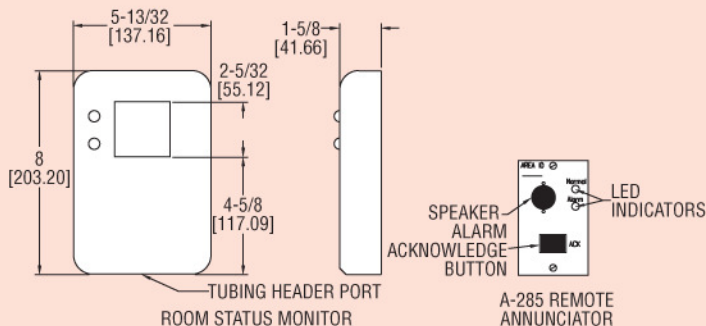




Series
RSM

Room Status Monitor

For Sensing Low Pressure Using High Accuracy



The **Series RSM Room Status Monitor** is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The Series RSM can be configured to monitor positive or negative pressure in protected environments and hospital isolation rooms per CDC guidelines. The RSM is a complete system that includes a backlit RGB LCD display with a graphic user interface which enables access to pressure, security, calibration, and alarm setup. The touch-screen displays menus that guide the user through setup, as well as setting up password protection. Red and green LED's and a local audible alarm (with time delay feature) alert personnel to system status. The RSM has a NEMA 1 (IP20) rated fire retardant plastic for indoor applications. True differential pressure is displayed with a resolution of 0.001 in w.c. The very low pressure capacitance is dead ended and avoids the potential for cross contamination of the room and reference space as well as eliminating drift that results from fouling of flow based sensors, which by nature have a flow path connecting the protected and reference spaces. Additionally, there are two levels of password protection available as well as optional BACnet MSTP communication. A calibration certificate is provided with every unit.

APPLICATIONS

- Hospital isolation wards
- Pharmaceutical
- Manufacturing
- Clean rooms
- Research labs
- Animal facilities

Model	Operating Range	Excitation/Output
RSM-1-A	±0.05 in w.c.	24 VAC/4 to 20 mA or 0 to 5 or 0 to 10 VDC
RSM-2-A	±0.1 in w.c.	
RSM-3-A	±0.25 in w.c.	
RSM-4-A	±0.5 in w.c.	
RSM-5-A	±1 in w.c.	
RSM-6-A	±2.5 in w.c.	
RSM-1-B	±0.05 in w.c.	120 VAC/4 to 20 mA or 0 to 5 or 0 to 10 VDC
RSM-2-B	±0.1 in w.c.	
RSM-3-B	±0.25 in w.c.	
RSM-4-B	±0.5 in w.c.	
RSM-5-B	±1 in w.c.	
RSM-6-B	±2.5 in w.c.	

SPECIFICATIONS

Service: Air or nonconductive, nonexplosive gases.

Accuracy: ±0.5% FS, ±0.25% FS (optional).

Temperature Limits: 32 to 120°F (0 to 50°C).

Humidity Limits: 5 to 95% relative humidity (non-condensing).

Altitude: 6561 ft (2000 meters) max.

Thermal Effects: ±0.03% FS/°F (±0.05% FS/°C).

Pressure Limits: ±15 in w.c. (±3.7 kPa).

Supply Voltage:

Order code A (24 VAC): 18 to 32 VAC, 50 to 60 Hz;

Order code B (120 VAC): 85 to 265 VAC, 50 to 60 Hz;

Main supply voltage fluctuations up to 10%.

Power Requirements: 5 W.

Power Consumption (Voltage output): 5 W.

Output Signal: Selectable 4 to 20 mA (2-wire), 0 to 5 VDC (3-wire), or 0 to 10 VDC (3-wire).

Switch Type: SPST.

Loop Resistance (4 to 20 mA output): 0 to 510 Ω.

Electrical Connection: Removable terminal block.

Process Connections: Barbed fittings for 3/16" ID tubing.

Enclosure Rating: NEMA 1 (IP20) rated for indoor applications.

Housing: Fire retardant plastic.

Mounting: Mount to standard double gang metal electrical box using 4x4" plaster ring adapter.

Dimensions: 8" H x 5.4" W x 1.8" D (20.3 H x 13.7 W x 4.1 D cm).

Weight: 1.5 lb (680 g).

Communications: BACnet MSTP ASC optional.

Agency Approvals: CE, CSA (RSM only).

Note: For optional BACnet communication change end from -A to -C for 24 VAC power or from -B to -D for 120 VAC power models.

ACCESSORY

A-285, Remote Alarm Annunciator with Visible/Audible Alarm and Acknowledge Switch

See page 567 for process tubing options.