SERIES RSM

ROOM STATUS MONITOR
For Sensing Low Pressure Using High Accuracy

Room status monitor

SPEAKER
ALARM ACKNOWLEDGE BUTTON
LED INDICATORS

Remote annunciator
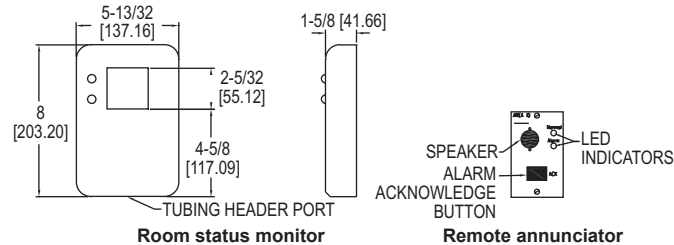
Series RSM Room Status Monitor is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The Series RSM can be configured to monitor positive or negative pressure in protected environments and hospital isolation rooms per CDC guidelines. The RSM is a complete system with a graphic user interface which enables access to pressure, security, calibration, and alarm setup. The RSM has a NEMA 1 (IP20) rated fire retardant plastic for indoor applications.

FEATURES/BENEFITS
• Accurately monitors protective environments for negative or positive pressure ensuring safety and reducing risk of catastrophic events
• Audible and visual alarm provides immediate local alerts allowing corrective action to be taken quicker to eliminate the problem from becoming widespread
• Password protected set up menu ensures no errors by untrained personnel
• Optional BACnet communication from devices provides integration into building control system for automated control and centralized monitoring and alarming

APPLICATIONS
• Hospital isolation wards
• Clean rooms
• Pharmaceutical
• Manufacturing
• Research labs
• Animal facilities

MODEL CHART

Model*	Operating Range	Model**	Operating Range
RSM-1-A	±0.05 in w.c.	RSM-1-B	±0.05 in w.c.
RSM-2-A	±0.1 in w.c.	RSM-2-B	±0.1 in w.c.
RSM-3-A	±0.25 in w.c.	RSM-3-B	±0.25 in w.c.
RSM-4-A	±0.5 in w.c.	RSM-4-B	±0.5 in w.c.
RSM-5-A	±1 in w.c.	RSM-5-B	±1 in w.c.
RSM-6-A	±2.5 in w.c.	RSM-6-B	±2.5 in w.c.

*Excitation/Output: 24 VAC/4-20 mA or 0-5 or 0-10 VDC.
**Excitation/Output: 120 VAC/4-20 mA or 0-5 or 0-10 VDC.
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.

SPECIFICATIONS
Service: Air or non-conductive, nonexplosive gases.
Accuracy: ±0.5% FS.
Temperature Limits: 32 to 120°F (0 to 50°C).
Humidity Limits: 5 to 95% relative humidity (non-condensing).
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): 18-32 VAC, 50 to 60 Hz; Order code B (120 VAC): 85-265 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 4-20 mA (2-wire), 0-5 VDC (3-wire), or 0-10 VDC (3-wire).
Switch Type: SPST.
Loop Resistance (4-20 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).

ACCESSORIES

Model	Excitation/Output
A-285	Remote alarm annunciator with visible/audible alarm and acknowledge switch

Process Tubing Options: See page 455 (Gage Tubing Accessories)