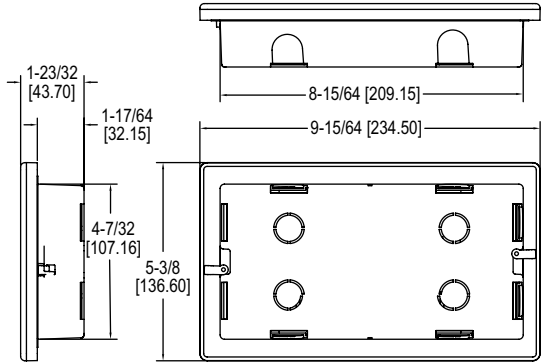**Dwyer.**

BTL CE

SERIES RSMC

STABILI*SENSE*™ CRITICAL ROOM STATUS MONITOR
Touchscreen LCD, Monitors Multiple Parameters

CALIBRATION SERVICES AVAILABLE

RSMC with standard plastic bezel

1-23/32 [43.70]
1-17/64 [32.15]
4-7/32 [107.16]
5-3/8 [136.60]
8-15/64 [209.15]
9-15/64 [234.50]

The **Series RSMC Stabili*SENSE*™ Critical Room Status Monitor** is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. It can be configured to monitor positive or negative pressure in clean rooms, hospital isolation rooms, school nurses offices, laboratories, and vivariums. The RSMC is a complete system with a touchscreen graphical user interface which enables access to pressure, humidity, temperature, air change, security, door status, calibration, and alarm setup. The graphical display color changes allow a clear determination of when the parameters are operating within the acceptable range (green), caution range (yellow), or have gone outside the acceptable operating range (red). The RSMC Stabili*SENSE*™ critical room status monitor comes standard with BACnet MS/TP and Modbus® RTU communications.

BENEFITS/FEATURES
• Long-term stable pressure measurements
• User-configurable graphical interface
• Monitors up to 3 rooms with a single unit
• Displays up to 4 parameters including pressure, relative humidity, temperature, air change, and/or door status
• Allows for flush installation in walls with space constraints with the shallow mounting depth of 1.1″ (27.5 mm)
• Full color 4.3″ touchscreen LCD incorporates color status indication: green for good, yellow for warning, and red for alarm
• Easy-to-clean optional brushed stainless steel bezel
• BACnet MS/TP and Modbus® RTU communications
• Includes RSMC, junction box, factory calibration certificate, and USB-C/USB-A flash-drive

APPLICATIONS
• Hospital isolation rooms
• Pharmaceutical facilities
• Dental offices
• School nurse offices
• Semiconductor manufacturing facilities

SPECIFICATIONS
Service: Air.
Measurement Technology: Capacitance cell pressure sensor.
Wetted Materials: Front: PMMA window with IP65 rating; Back housing: Fire-proof ABS+PC UL 94 V-0.
Pressure Limits: 1.5 psig.
Accuracy: ±0.25% RSS (includes non-linearity: ±0.24% BFSL, hysteresis: ±0.05% and non-repeatability: ±0.05%), or ±0.5% RSS (includes non-linearity: ±0.49% BFSL, hysteresis: ±0.05% and non-repeatability: ±0.05%).
Process Connection: Barbed, fits 1/8″ and 3/16″ (3 mm and 5 mm) ID rubber or vinyl tubing.
Inputs: Two (2) user-selectable 4-20 mA, 0-5 VDC, or 0-10 VDC; USB type C used for cloning programming; One (1) digital input for door status.
Outputs: One (1) digital output (DO) rated 5 A @ 30 VDC; One (1) 4-20 mA or 0-10 V (user selectable) corresponding to internal pressure or retransmission of any input.
Ambient Temperature Limits: 32 to 122°F (0 to 50°C).
Power Requirements: 24 VAC/VDC.
Selectable Pressure Units: Pa, kPa, cm w.c., mm w.c., and in w.c.
Temperature Units: °F and °C.
Zero and Span Adjustments: Adjustable via touchscreen.
Power Consumption: 3.6 W @ 24 VDC.
Electrical Connection: Removable terminal block.
Display: 4.3″ (10.9 cm) color TFT LCD, dimmable; 480 x 272 resolution.
Communications: Modbus® RTU, BACnet MS/TP.
Audible Alarm: 69.1 dB 10 cm from display.
Weight: 1.05 lb (0.476 kg).
Compliance: BTL, CE.

MODEL CHART

Model	Accuracy	Range
RSMC-A-002	±0.25%	0 to 0.25 in w.c.
RSMC-A-003	±0.25%	0 to 0.5 in w.c.
RSMC-A-004	±0.25%	0 to 1 in w.c.
RSMC-A-013	±0.25%	-0.25 to 0 to 0.25 in w.c.
RSMC-A-014	±0.25%	-0.5 to 0 to 0.5 in w.c.
RSMC-A-015	±0.25%	-1 to 0 to 1 in w.c.
RSMC-B-002	±0.5%	0 to 0.25 in w.c.
RSMC-B-003	±0.5%	0 to 0.5 in w.c.
RSMC-B-004	±0.5%	0 to 1 in w.c.
RSMC-B-013	±0.5%	-0.25 to 0 to 0.25 in w.c.
RSMC-B-014	±0.5%	-0.5 to 0 to 0.5 in w.c.
RSMC-B-015	±0.5%	-1 to 0 to 1 in w.c.

Note: To order with a stainless steel bezel, add "-SS" to the end of the part number.

OPTIONS

To order add suffix:	Description
-NIST	NIST traceable calibration certificate

Example: RSMC-A-002-FC

RSMC with stainless steel bezel option

ACCESSORIES

Model	Description
A-220	Clear flexible vinyl tubing is easily inspected, and is therefore best for test applications where a possibility of fluid entering the tubing exists. 3/16″ ID x 5/16″ OD, lengths to 500′; 45 psi maximum pressure @ 73°F
A-285	Remote alarm annunciator with visible/audible alarm and acknowledge switch
A-417A	Static pressure pickup. For use in clean rooms, 60 micron filter picks up static pressure. Stainless steel wall plate fits 2″ x 4″ electrical box. Sealed with foam gasket, screws included. Barbed brass fitting holds 1/8″ to 3/16″ ID tubing
A-418A	Static pressure pickup. Room mount with delta style plastic enclosure fits 2″ x 4″ electrical box. Fine mesh screen hides static pressure pickup port. Clean connection to 1/8″ to 3/16″ I.D. tubing and pressure sensor. Sealed with foam gasket, screws included
A-465	Flush mount space pressure sensor, white plastic
A-RSMC-BOX	Surface mount box for RSMC Series

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