Dwyer

SERIES RPMC | STABILI*SENSE*™ CRITICAL ROOM PRESSURE MONITOR

FEATURES/BENEFITS

- **Long term stable pressure measurement**
- **2 SPDT relays allow for local alarming and alarming to control system**
- **Automatic or manual alarm reset**
- **Visual LED alarms provide immediate local alert allowing corrective action to be taken quicker to eliminate the problem from becoming widespread**
- **Stores peak and valley process readings**
- **Same installation diameter as Magnehelic® gage which simplifies field upgrade to RPMC Stabili*SENSE*™ critical room pressure monitor**
- **Password protected setup menu ensures no errors by untrained personnel**

APPLICATIONS

- Clean manufacturing areas
- Semiconductor manufacturing
- Pharmaceutical
- Clean rooms
- Research labs
- Vivariums

DESCRIPTION

The **Series RPMC Stabili*SENSE*™ Critical Room Pressure Monitor** is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The Series RPMC can be configured to monitor positive or negative pressure in protected environments and clean manufacturing areas. The RPMC is a complete system with a fixed segment LCD which enables access to pressure, security, calibration, and alarm setup. The Stabili*SENSE*™ critical room pressure monitor has a brushed stainless steel bezel that allows for easy cleaning.

The RPMC Stabili*SENSE*™ critical room pressure monitor has built-in status indication LEDs that will appear green when within the user-defined pressure set range and will appear orange when outside of the pressure set range. 2 SPDT independent control relays with adjustable deadbands are also provided along with a 4-20 mA process output.
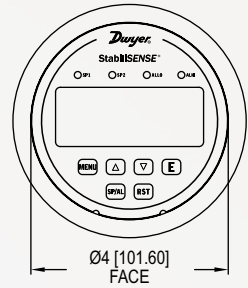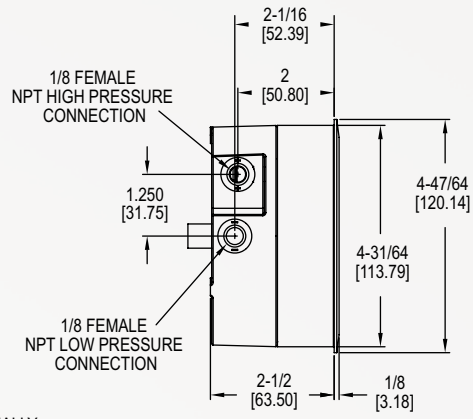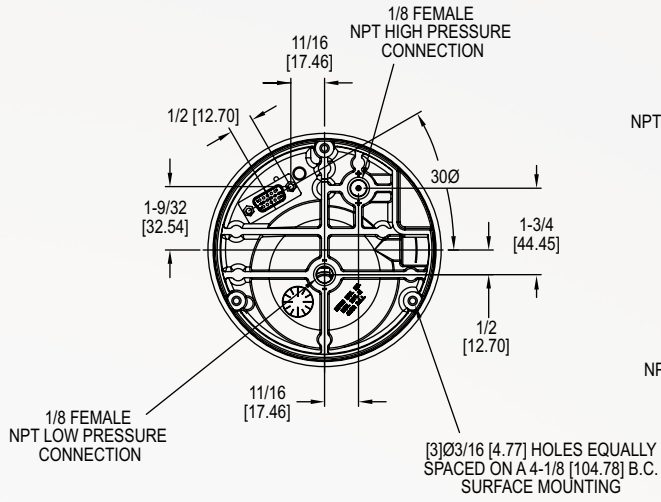
SPECIFICATIONS

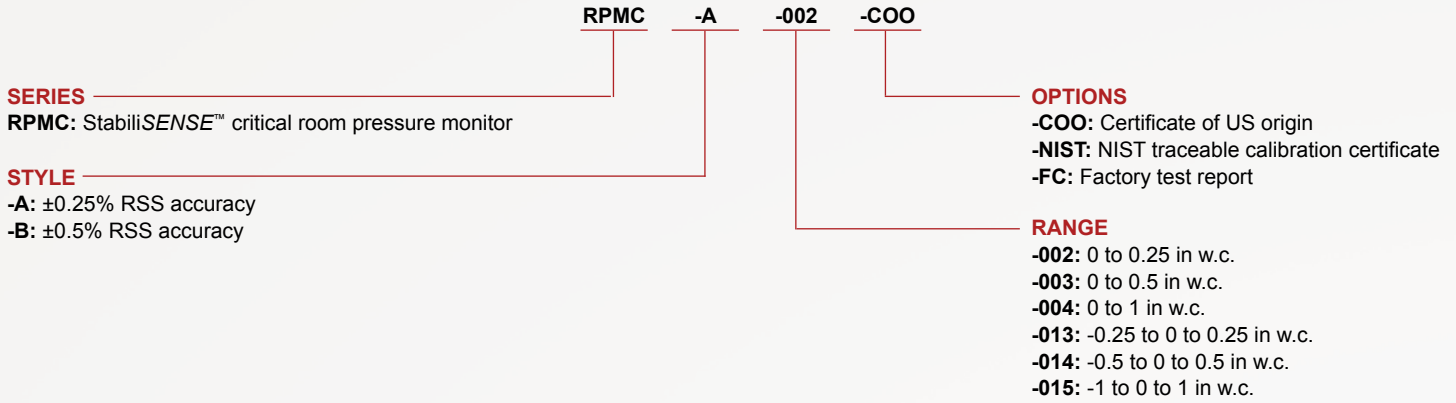|	
Service	Air and non-combustible, compatible gases.
Measurement Technology	Capacitance cell.
Wetted Materials	Consult factory.
Housing Material	Die cast aluminum case and SS bezel.
Accuracy	±0.25% RSS (includes non-linearity: ±0.24%, hysteresis: ±0.05% and non-repeatability: ±0.05%), or ±0.5% RSS (includes non-linearity: ±0.49%, hysteresis: ±0.05% and non-repeatability: ±0.05%).
Pressure Limits	2 psig.
Temperature Limits	32 to 140°F (0 to 60°C).
Compensated Temperature Limits	32 to 140°F (0 to 60°C).
Thermal Effects	0.030%/°F (0.050/°C) from 77°F (25°C).
Power Requirements	12-28 VDC, 12-28 VAC 50 to 400 Hz.
Power Consumption	3 VA max.
Output Signal	4-20 mA DC into 900 Ω max.
Zero and Span Adjustments	Accessible via menus.
Response Time	8 ms.
Display	Backlit 4 digit LCD 0.4″ height LED indicators for set point and alarm status.
Electrical Connections	15 pin male high density D-sub connection. 18″ (46 cm) cable with 10 conductors included.
Process Connections	1/8″ female NPT. Side or back connections.
Mounting Orientation	Mount unit in vertical plane. Size: 4-3/4″ (120.7 mm) OD x 2-21/32 (67.5 mm).
Weight	1.90 lb (794 g).
Agency Approvals	CE.

SWITCH SPECIFICATIONS

Switch Type	2 SPDT relays.
Electrical Rating	1 A @ 30 VAC/VDC.
Set Point Adjustment	Adjustable via keypad on face.

DIMENSIONS

11/16 [17.46]

1/2 [12.70]

1/8 FEMALE NPT HIGH PRESSURE CONNECTION

1-9/32 [32.54]

30Ø

1-3/4 [44.45]

1/2 [12.70]

11/16 [17.46]

1/8 FEMALE NPT LOW PRESSURE CONNECTION

[3]Ø3/16 [4.77] HOLES EQUALLY SPACED ON A 4-1/8 [104.78] B.C. SURFACE MOUNTING

2-1/16 [52.39]

2 [50.80]

1/8 FEMALE NPT HIGH PRESSURE CONNECTION

1.250 [31.75]

1/8 FEMALE NPT LOW PRESSURE CONNECTION

4-47/64 [120.14]

4-31/64 [113.79]

2-1/2 [63.50]

1/8 [3.18]

Ø4 [101.60] FACE

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

| RPMC | -A | -002 | -COO |

SERIES
RPMC: Stabili*SENSE*™ critical room pressure monitor

STYLE
-A: ±0.25% RSS accuracy
-B: ±0.5% RSS accuracy

OPTIONS
-COO: Certificate of US origin
-NIST: NIST traceable calibration certificate
-FC: Factory test report

RANGE
-002: 0 to 0.25 in w.c.
-003: 0 to 0.5 in w.c.
-004: 0 to 1 in w.c.
-013: -0.25 to 0 to 0.25 in w.c.
-014: -0.5 to 0 to 0.5 in w.c.
-015: -1 to 0 to 1 in w.c.

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-299	Mounting bracket flush mount Magnehelic® gage in bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish 6.3″ x 7.7″ x 4.0″, 1.30 lb
A-300	Flat aluminum bracket for flush mounting
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-471A	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

ORDER ONLINE TODAY!
dwyer-inst.com/Product/SeriesRPMC

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