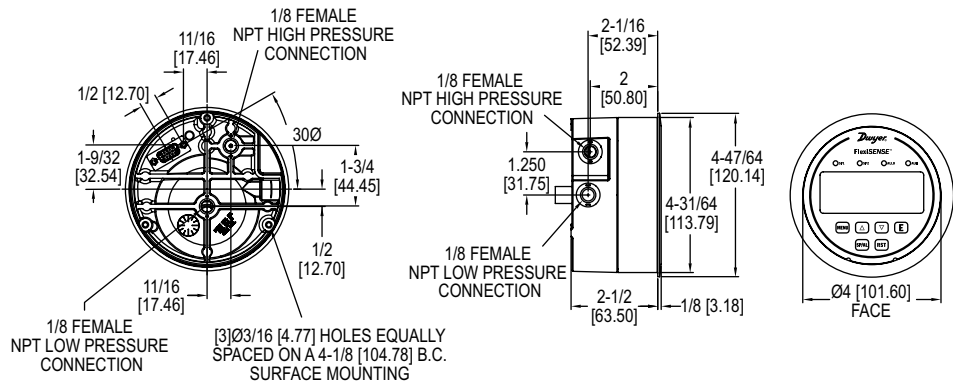**Dwyer**

SERIES RPME

FLEXI*SENSE*™ CRITICAL ROOM PRESSURE MONITOR
Room Status Indication, Magnehelic® Gage Size

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

The RPME Flexi*SENSE*™ 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.

FEATURES/BENEFITS
• 2 SPDT relays allow for capability of 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 RPME Flexi*SENSE*™ room pressure monitor
• Password protected setup menu ensures no errors by untrained personnel

APPLICATIONS
• Clean manufacturing areas
• Clean rooms
• Research labs
• Vivariums

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Measurement Technology: Piezoresistive.
Wetted Materials: Consult factory.
Housing Material: Die cast aluminum case and SS bezel.
Accuracy: ±0.5% RSS (includes non-linearity: ±0.49%, hysteresis: ±0.05% and non-repeatability: ±0.05%), or ±1% RSS (includes non-linearity: ±0.99%, hysteresis: ±0.05% and non-repeatability: ±0.05%).
Pressure Limits: Ranges 0.5 and 1.0 in w.c: 9 psi; Ranges 2.5 and 5 in w.c.: 1.5 psi.
Temperature Limits: 32 to 140°F (0 to 60°C).
Compensated Temperature Limits: 32 to 140°F (0 to 60°C).
Thermal Effects: 0.020%/°F (0.036/°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.
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: 1.75 lb (794 g).

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

MODEL CHART

Model	Description
RPME-C-003	Flexi*SENSE*™ room pressure monitor, 1% accuracy, 0-0.5 in w.c. range
RPME-C-004	Flexi*SENSE*™ room pressure monitor, 1% accuracy, 0-1 in w.c. range
RPME-C-005	Flexi*SENSE*™ room pressure monitor, 1% accuracy, 0-2.5 in w.c. range
RPME-C-014	Flexi*SENSE*™ room pressure monitor, 1% accuracy, -0.5 0-0.5 in w.c. range
RPME-C-015	Flexi*SENSE*™ room pressure monitor, 1% accuracy, -1-0-1 in w.c. range

OPTIONS

Model	Description
NIST	NIST traceable calibration certificate
FC	Factory calibration certificate

ACCESSORIES

Model	Description
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-417A	Static pressure pickup. For use in clean rooms, 60 micron filter picks up static pressure. SS 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-465	Flush mount space pressure sensor, white plastic
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-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