

ROOM PRESSURE MONITOR FEATURES & SPECIFICATIONS

MODEL DRPM-1

The room pressure monitor takes advantage of time-proven sensor technology to monitor, alarm and/or control critical room-to-room differential pressures. The same instrument monitors either positive or negative room pressures.

Monitoring of hospital rooms such as operating rooms and isolation rooms for housing contagious patients is a typical application. This monitor is extremely sensitive and performs reliably at very low room pressures.

It is easily mounted on a wall and the installer has the choice of rear or bottom knockouts for electrical and pressure connections. All electrical and mechanical components are housed in a tough polycarbonate NEMA Type 13 (IEC529, IP65) enclosure with a clear, gasketed polycarbonated cover for easy viewing of display and room status.

Pressure is displayed on the front panel with a resolution of 0.001" of water (or 0.1 Pascals). A minus sign indicates a negative room pressure. Next to the digital display, a small light indicates the selected unit of measurement (either inches of water or Pascals). A bright red and a bright green LED alert those approaching of the status of the room. The pressure at which the lights change status can be adjusted from the front panel.

Standard with the room pressure monitor are a SPDT relay (for supplemental controls such as audible alarm or remote status indication), and 3 analog output signals, 0 to 5Vdc, 0 to 10Vdc and 4 to 20mA. These analog outputs are proportional to the room pressure. An optional audible alarm is available for Model DRPM-1.

A selector switch allows files setup for either 120Vac or 240Vac, 50/60Hz service.



- Resolution to 0.001" of Water
- Dependable Solid State Design
- Rugged NEMA 13 Enclosure
- Cost Effective & Easy to Install

SPECIFICATIONS

ACCURACY OF READING:	± 1% F.S.
ACCURACY OF ALARM OUTPUT:	± 1% of setpoint (lights and relay)
STANDARD RANGE:	± 0.1" of water (± 25 Pascals)
RESOLUTION:	± 0.001" of water (or 0.1 Pascals)
OPTIONAL RANGES:	± 0.5, ± 1.0, ± 5.0, ± 10.0" of water
PANEL INDICATOR LIGHTS:	One red and one green LED
DISPLAY:	LCD, 3 digits, 0.5" digit height
ALARM OUTPUT:	SPDT relay, contact rated at 5A at 30Vdc or 120Vac, 4A at 240Vac, resistive
DEADBAND:	Preset at 5% of range, field adjustable from 1 to 20%
ANALOG OUTPUT:	0-5Vdc, 2.5V at zero pressure, 2mA max., 0-10Vdc, 5V at zero pressure, 2mA max. 4-20mA sourcing, 12mA at zero pressure, max. loop resistance is 580 Ohms
POWER REQUIREMENTS:	95-135/190-270Vac, 50/60Hz
MAXIMUM POWER CONSUMPTION:	5 watts
ELECTRICAL CONNECTIONS:	3/8" terminal strip with #6 screws
OPERATING MEDIUM:	Air or non-corrosive, non-explosive gas
MAXIMUM MOMENTARY PRESSURE LIMIT:	± 6.0" of water (± 1.5kPa)
ENCLOSURE:	Color: light gray Construction: glass filled polycarbonate, flammability rating of UL94 V-1 Cover: clear polycarbonate, flammability rating of UL94 V2 Knockouts: 3/4" (19mm) diameter of lower front and back of enclosure Hinges: Strong and removable allow hinging from either side, open 180° Mounting: 3-point mounting
OPERATING TEMPERATURE:	0°C to 50°C (32°F to 160°F)
STORAGE TEMPERATURE:	-30°C to 70°C (-20°F to 160°F)
EFFECT OR TEMPERATURE ON READING:	± 0.05%/°C
PHYSICAL DIMENSIONS:	7.4"H x 9.1"L x 4.45"W
WEIGHT:	2.56 lb. (1160g)



Further information:
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www.berriman.com