

DIRECT ROOM PRESSURE MEASUREMENT AND MONITORING

The Phoenix Controls airflow control system provides stable pressurization using a volumetric offset control strategy and verifies room pressure with an industrial grade pressure transducer. This system provides reliable monitoring and control when proper room pressurization is critical to a safe, stable environment.



Key Features

- Direct pressure measurement
- Room pressure and flow alarms
- Flush mount
- Key locked access panel for security
- Three-year warranty

Designed specifically for use with Phoenix Controls

The Active Pressure Monitor provides differential pressure alarming relative to an adjustable set point. Additionally, when operating in concert with the Accel® II control valve, it can provide flow alarming when static pressure falls below minimum requirements. To avoid nuisance alarms caused by foot traffic and fluctuations in static pressure, the pressure and flow alarms have independent adjustable time delays of up to 30 seconds.

Reversible room pressurization

The Phoenix Controls system provides the flexibility to fit your needs—from basic monitoring of room pressure to fully reversible volumetric airflow control—with appropriate alarming. Switching room pressurization is simple when requirements change—either suddenly with the outbreak of disease or over time, as facility needs change.

Integration for continuous monitoring

Integration to a facility management system provides easy access to operating information. The Phoenix Controls system has room pressure and alarm condition signals that can be integrated easily for continuous monitoring.

The Active Pressure Monitor measures and alarms to within 0.5% of full scale and displays the room pressure to 0.0001 inches of water gauge (0.0249 Pa). It can, therefore, meet the most stringent requirements of critical environments, including:



- Rodent holding rooms
- Aseptic suites and isolation rooms
- Biological laboratories
- Cleanrooms

Specifications

Dimensions

Faceplate
9.5" W x 5.5" H (241.3 x 139.7 mm)

Display

Four-digit LED
0.5" height

Accuracy

±0.5% FS terminal point

Stability

< ±1.0% FS per year

Temperature Effects

< ±0.03% FS/°F (.05% FS/°C)

Over-pressure

5 PSIG proof (34.5 KPa)

Response

< 0.25 seconds for full-span input

Standard Range

±0.05" WC (±12.5 Pa)

Optional Ranges

±0.1" WC (±25 Pa)
±0.2" WC (±50 Pa)
±0.5" WC (±125 Pa)
±1.0" WC (±250 Pa)
±2.0" WC (±500 Pa)
±5.0" WC (±1250 Pa)

Analog Output

Field selectable: 4-20 mA,
12 mA at zero pressure or
0-10 Vdc, 5 Vdc at zero pressure

Alarm Output

SPDT relay

Contact UL/CSA Rating

2.0 A @ 30 V AC/DC

Alarm Deadband

0.1% FS

Alarm Delay Range

0-30 seconds

Power

22-26 Vac
50/60 Hz

Power Consumption

4.0 VA

Operating Temperature

32-160 °F (0-70 °C)

Storage Temperature

-40-180 °F (-40-82 °C)

Weight

2.1 pounds (0.95 Kg)

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