SUREFLOW™ MODEL 8635-M ROOM PRESSURE MONITOR

Description

The Model 8635-M SUREFLOW™ Room Pressure Monitor is an ideal digital monitor for laboratories.

A stand-alone monitor, the Model 8635-M measures the actual room pressure differential and alarms if the differential is too great or too small. It features alarm delays and a door switch input to minimize alarms when the door is open. When using the optional flow measurement, the 8635-M will also alarm on minimum flow volumes for ventilation (Air Changes Per Hour).



The 8635-M easily integrates to the building management system using alarm relays, an analog output, or digital communications. The Model 8635-M supports the open Modbus[®] protocol.

Features

- Stand-alone pressure monitor verifies system operation
- Direct pressure measurement provides continuous monitoring
- Audible and visual alarms warn staff if corrective action needed
- Network communications allow for building-wide control efficiencies
- Convenient keypad and display support local programming
- Passwords prevent unauthorized access to monitor functions

Selection Chart				
	8635-M	8635-M-N2		
Low Alarm Contact	٠	•		
High Alarm Contact	٠	•		
Flow Station Input		•		
Door/Setback Input		•		
Analog Pressure Output •		•		
Modbus [®] Communications •				
N2 Communications		•		

Items Included

Digital interface module Through-the-wall pressure sensor Transformer, 120:24 VAC, 50 VA Transformer cable, 25 ft (762 cm)

Hardware Options

Supply or exhaust flow station Door switch



Digital Interface Module Specifications

Display Range	-0.20000 to +0.20000 in. H2O
	(-50 to +50 Pa)
Low Alarm Range	-0.19500 to +0.19500 in. H2O
	(-48.5 to +48.5 Pa)
High Alarm Range	-0.19500 to +0.19500 in. H2O
	(-48.5 to +48.5 Pa)
Alarm Contacts	SPST (NO)*
	Max current 5A,
	Max voltage 150 VDC, 250 VAC
	Min switch load 10 mA, 5 VDC
User Configurable	Signal: 0 to 10V or 4 to 20 mA
Analog Output	Range:
	-0.100 to +0.100 in. H20
	(-248.8 to +248.8 Pa) or
	-0.0100 to $+0.0100$ m. H ₂ O
	(-2.5 to +2.5 Pa)
Operating	32 to 120°F (0 to 48.8°C)
Temperature	
Input Power	24 VAC, 5 W max
Size ($H \times W \times D$)	4.90 in. x 4.90 in. x 1.35 in.
	(124.5 x124.5 x 34.3 mm)
Weight	0.7 lb (0.3 kg)



*Relays close to indicate alarm or loss of power. Specifications subject to change without notice.



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USA	Tel: +1 800 874 2811	India	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	China	Tel: +86 10 8219 7688
France	Tel: +33 491 11 87 64	Singapore	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		

Range	-0.20000 to +0.20000 in. H2O (-50 to + 50 Pa)
Accuracy	±10% of reading ±0.00001 in. H20 (±0.0025 Pa)
Resolution	5% of reading
Temp. Comp. Range	55 to 95°F (12.7 to 35°C)
Power	0.16 W at 0 in. H20
Dissipation	0.20 W at 0.00100 in. H20 (0.25 Pa)
Size (H × W × D)	3.34 in. x 5.58 in. x 1.94 in.
	(84.8 x 141.7 x 49.3 mm)
Weight	0.2 lb (0.1 kg)

