PRESSURA™ Model 8630-PC Room Pressure Controller

Description

The Model 8630-PC PRESSURA Room Pressure Controller is designed to maintain a constant pressure differential in hospital rooms.

The Model 8630-PC measures the actual room pressure differential using TSI's unique bi-directional pressure sensor. It modulates a damper or variable frequency drive to maintain a safe pressure differential. If the pressure differential should rise too high, fall too low, or go to the wrong direction, the Model 8630-PC will activate audible and visual alarms. The Model 8630-PC even accepts supply and exhaust volumetric flow measurements, alarming if the ventilation rate is too low.

The Model 8630-PC features adjustable alarm delays to avoid nuisance alarms. When the room is unoccupied, it can be changed to no isolation mode, de-activating all alarms.

The Model 8630-PC easily integrates to the building management system using a low alarm relay and an analog output of the measured pressure differential, or digital communications over an RS-485 network using the open MODBUS protocol.

Features

- Meets CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health-Care Facilities, 1994
- Stand-alone room pressure controller ensures system operation
- Accepts second pressure sensor input to monitor anteroom differential
- Direct pressure measurement provides continuous monitoring
- Audible and visual alarms warn staff of unsafe conditions
- Convenient keypad and display support local programming
- Passwords prevent unauthorized access to controller functions

Selection Chart

	8630-PC	8630-PC-CR	8630-PC-AG	8630-PC-N2
Positive, Negative, and No Isolation Modes	•	•	•	•
Low Alarm Contact	•	•	•	•
High Alarm Contact	•		•	•
Low Flow Alarm	•	•	•	•
Second Sensor Input	•	•		•
Analog Pressure Output	•	•	•	•
MODBUS & Cimetrics Communications	•	•	•	
N2 Communications				•
Room Mode Control Relay		•		
Secondary Door Alarm Delay			•	

Items Included

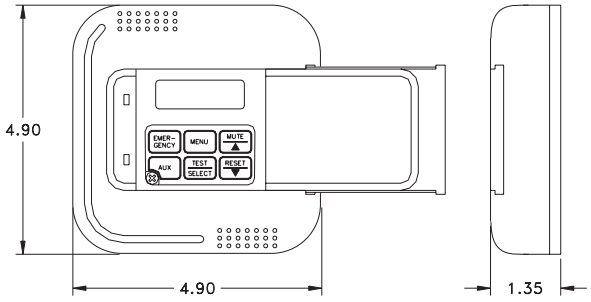
Digital interface module
Through-the-wall pressure sensor
Sensor cable, 25 ft
Transformer, 120:24 VAC, 25 VA
Transformer cable, 25 ft

Hardware Options

Remote audible alarm
Positive/negative/no isolation key switch
Electric actuator/damper assembly
Pneumatic actuator/damper assembly
Second sensor
Exhaust flowstation
Supply flowstation

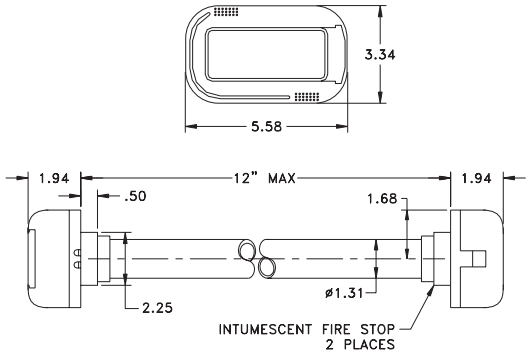
Digital Interface Module Specifications

Display Range	-0.20000 to +0.20000 in. H_2O
Display Resolution	5% of reading
Low Alarm Range	-0.19500 to +0.19500 in. H_2O
High Alarm Range	-0.19500 to +0.19500 in. H_2O
Low Alarm Contacts	SPST (NO) Max current 5A, max voltage 150VDC, 250VAC Min switch load 10 mA, 5VDC
Control Output	0-10VDC
User Configurable Analog Output	Signal: 0 to 10VDC or 4 to 20 mA Range: -0.100 to +0.100 in. H_2O or -0.0100 to +0.0100 in. H_2O
Operating Temperature	32 to 120˚F
Input Power	24VAC, 5 W max
Weight	0.7 lb



Sensor Specifications

Range	-0.20000 to +0.20000 in. H_2O
Accuracy	±10% of reading ±0.00001 in. H_2O
Resolution	5% of reading
Temp. Comp. Range	55 to 95˚F
Power Dissipation	0.16 W at 0 in. H_2O 0.20 W at 0.00100 in. H_2O
Weight	0.2 lb



Specifications subject to change without notice.

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