

## PRESURA™ Model 8630-SC Room Pressure Controller

### Description

The Model 8630-SC PRESURA Room Pressure Controller is designed to maintain a constant room pressure differential in hospital rooms.

The Model 8630-SC measures the actual room pressure differential using TSI's unique, bi-directional pressure sensor. It modulates a damper or the 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-SC will activate audible and visual alarms. The Model 8630-SC even accepts a volumetric flow measurement, alarming if the ventilation rate is too low.

The Model 8630-SC 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-SC 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.



### Benefits

- Meets CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health-Care Facilities, 1994
- Stand-alone room pressure controller ensures system operation
- 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-SC
Positive, Negative, and No Isolation Modes	•
Low Alarm Contact	•
Key Switch Input	•
Flow Station Input	•
Analog Pressure Output	•
MODBUS & Cimetrics Communications	•

### Items Included

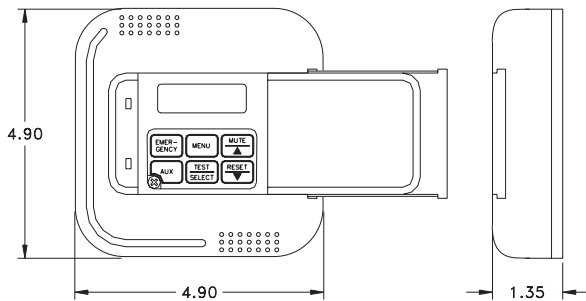
Digital interface module  
Through-the-wall pressure sensor  
Sensor cable, 25 ft  
Transformer, 120:24 VAC, 25 VA  
Transformer cable, 25 ft

### Hardware Options

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

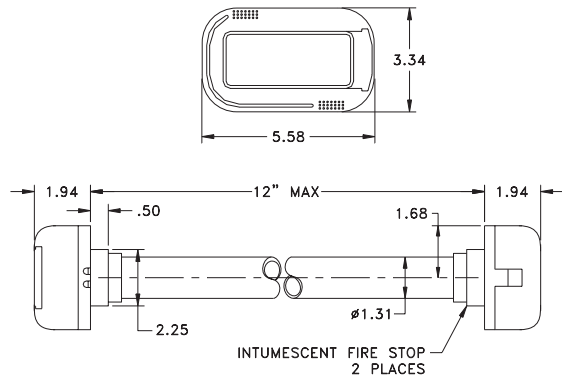
## Digital Interface Module Specifications

<b>Display Range</b>	-0.20000 to +0.20000 in. H <sub>2</sub> O
<b>Display Resolution</b>	5% of reading
<b>Low Alarm Range</b>	-0.19500 to +0.19500 in. H <sub>2</sub> O
<b>High Alarm Range</b>	-0.19500 to +0.19500 in. H <sub>2</sub> O
<b>Low Alarm Contacts</b>	SPST (NO) Max current 5A, max voltage 150VDC, 250VAC Min switch load 10 mA, 5VDC
<b>Control Output</b>	0 to 10VDC
<b>User Configurable Analog Output</b>	Signal: 0 to 10VDC or 4 to 20 mA Range: -0.100 to +0.100 in. H <sub>2</sub> O or -0.0100 to +0.0100 in. H <sub>2</sub> O
<b>Operating Temp.</b>	32 to 120°F
<b>Input Power</b>	24VAC, 5 W max
<b>Weight</b>	0.7 lb



## Sensor Specifications

<b>Range</b>	-0.20000 to +0.20000 in. H <sub>2</sub> O
<b>Accuracy</b>	±10% of reading ±0.00001 in. H <sub>2</sub> O
<b>Resolution</b>	5% of reading
<b>Temp. Comp. Range</b>	55 to 95°F
<b>Power Dissipation</b>	0.16 W at 0 in. H <sub>2</sub> O 0.20 W at 0.00100 in. H <sub>2</sub> O
<b>Weight</b>	0.2 lb



Specifications subject to change without notice.



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