PRESSURA™ Model 8630-CRC-P Clean Room Pressure Controller

Description

The Model 8630-CRC-P PRESSURA Clean Room Pressure Controller is designed to maintain a constant pressure differential in clean rooms.

The Model 8630-CRC measures the actual room pressure differential using TSI's unique bi-directional pressure sensor. It modulates the exhaust dampers or variable frequency drive to maintain the proper pressure differential. The Model 8630-CRC can also control the supply air to a constant volume, ensuring proper ventilation of the clean room.

If the pressure differential is too great, too small, or the wrong direction, the Model 8630-CRC will activate audible and visual alarms. An adjustable alarm delay avoids nuisance alarms when a door is opened.

The Model 8630-CRC easily integrates to the building management system using a low alarm relay, an analog output of the measured pressure differential, or digital communications. The Model 8630-CRC supports the open MODBUS protocol.

Benefits

- Maintaining pressure differential called for in Good Manufacturing Practices
- Direct pressure measurement provides continuous monitoring
- Constant volume control of supply ensures proper ventilation
- Second pressure sensor input monitors air lock-corridor pressure differential
- Audible and visual alarms warn staff of unsafe conditions
- Convenient keypad and display support local programming
- Passwords prevent unauthorized access to monitor functions

Selection Chart

	8630-CRC
Low Pressure Alarm Contact	•
General Exhaust Control Output	•
Configurable Supply Control Output/Analog Pressure Output	•
Low Flow Alarm Contact	•
Analog Pressure Output	•
MODBUS & Cimetrics Communications	•

Items Included

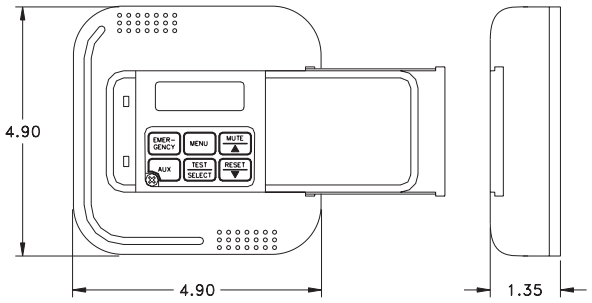
Digital interface module
Flush-mount pressure transducer assembly
Sensor cable, 25 ft
Transformer, 120:24 VAC, 25 VA
Transformer cable, 25 ft

Hardware Options

Electric actuator/damper assembly
Pneumatic actuator/damper assembly
Supply flowstation
Remote audible alarm
Flush-mount thermal pressure sensor

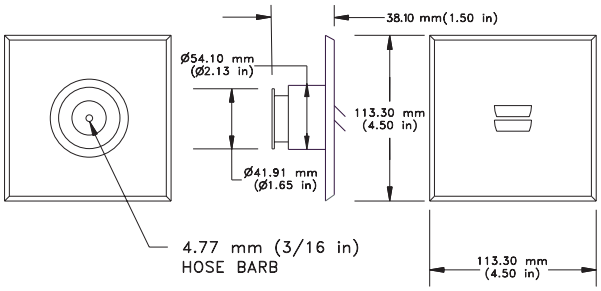
Digital Interface Module Specifications

Display Range	Pressure transducer range
Low Alarm Range	To 0.005 in. H_2O of pressure transducer range
High Alarm Range	To 0.005 in. H_2O of pressure transducer range
Low Alarm Contacts	SPST (NO) Max current 5A, max voltage 150VDC, 250VAC Min switch load 10 mA, 5VDC
General Exhaust Control Output	0 to 10VDC
User Configurable Analog Output	Signal: 0 to 10V 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



Transducer Specifications[1]

Range	0 to 1 in. H_2O
Field-selectable	0 to 0.5 in. H_2O 0 to 0.25 in. H_2O -0.5 to +0.5 in. H_2O -0.25 to +0.25 in. H_2O -0.125 to +0.125 in. H_2O
Accuracy	± 1% FS
Temp. Comp. Range	25 to 150˚F
Output Signal	0 to 5 VDC
Power Input	24 VAC
Weight	1.0 lb



Specifications subject to change without notice.

[1]Specifications for TSI-supplied transducer. Other transducers may be substituted.

TSI Incorporated
500 Cardigan Road
P.O. Box 64394
St. Paul, MN 55164 U.S.A.
Tel: 651 490 2711
800 777 8356
Fax: 651 490 2874
E-mail: answers@tsi.com