

SUREFLOW™ MODEL 8681-TP TRACKING PAIR CONTROLLER

Description

The Model 8681-TP SUREFLOW® room pressure controller is an excellent digital room controller for paired supplies and exhausts. A stand-alone device, the Model 8681-TP modulates the supply and general exhaust dampers in conjunction with the reheat valve to maintain laboratory balance, ventilation and comfort.

The Model 8681 easily integrates to the building management system, using digital communications, such as BACnet™ or Modbus®, and alarm relays.



Features

- Stand-alone room control provides system reliability
- Flow tracking control ensures stability in the HVAC system
- Audible and visual alarms warn staff of potentially unsafe conditions
- Network communications allow for building-wide control efficiencies
- Convenient integral keypad and display support local programming
- Passwords protect unauthorized access to controller functions

Selection Chart

| | 8681-TP | 8681-TP-BAC |
|---|---------|-------------|
| Controls Supply and General Exhaust for Flow Offset | • | • |
| Controls Reheat and Supply for Temperature | • | • |
| Unoccupied Mode Reduces Supply Volume | • | • |
| Controls Supply Dampers | • | • |
| Controls Supply Venturi Valves with Feedback | • | • |
| Controls Exhaust Dampers | • | • |
| Controls Exhaust Venturi Valves with Feedback | • | • |
| Modbus® Communications | • | |
| BACnet™ MS/TP Communications | | • |

Items Included

- Digital interface module
- Controller output cable, 25 ft (762 cm)
- Transformer, 120:24 VAC, 50 VA
- Transformer cable, 25 ft (762 cm)

Hardware Options

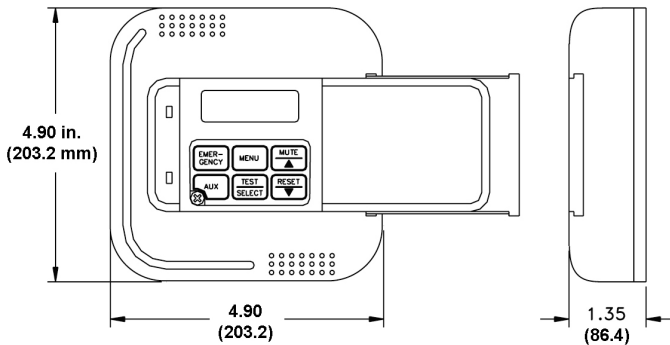
- Electric actuator
- Electric actuator/damper assembly
- Electric actuator/venturi valve assembly
- Supply and Exhaust Flow stations
- 1000 Ω platinum RTD temperature sensor
- Remote alarms

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 BACnet is a trademark of ASHRAE.
 Modbus is a registered trademark of Modicon, Inc.



Digital Interface Module Specifications

| | |
|------------------------------|--|
| Low Supply Alarm | 0 to 30,000 cfm |
| High Exhaust Alarm | 0 to 30,000 cfm |
| Alarm Contacts | SPST (NO)* Max Current 5A Max voltage 150 VDC, 250 VAC Min switch load 10 mA, 5DC |
| Flow Inputs | (1) 0 to 10 VDC Supply Flow (1) 0 to 10 VDC Exhaust Flow |
| Temperature Input | 1000 Ω platinum RTD |
| Control Outputs | (1) 0 to 10 VDC Supply (1) 0 to 10 VDC Exhaust (1) 0 to 10 VDC / 4 to 20 mA Reheat |
| Operating Temperature | 32 to 120°F (0 to 48.8°C) |
| Input Power | 24 VAC, 5W max |
| Size (HxWxD) | 4.90 in. x 4.90 in. x 1.35 in. (124.5 x 124.5 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.



UNDERSTANDING, ACCELERATED

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