




GREENHECK STE-8001 AirFlow Digital Sensor Instruction Manual

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Streamline VAV Installations with SimplyVAV™ Controllers

Greenheck is partnering with HVAC controls leader KMC Controls to offer their universal SimplyVAV™ controllers on Greenheck's VAV boxes. SimplyVAV is a universal VAV controller based on the open standard BACnet® and is available installed, wired and preconfigured for standard control sequences. With improved lead time and reduced on-site labor costs, SimplyVAV was developed to address the need for simplicity in digital VAV projects.

Features and Benefits

- No software needed! No laptop needed! No programming needed! No coding needed!
- The product is built on BACnet, the industry's most accepted open source standard.
- SimplyVAV is at home in stand-alone or network scenarios.
- Easy to set up, install, commission and balance.
- Factory-mounted and wired



Controllers and Room Sensors

- All configuring can be set by using the STE-8001 sensor which can be installed as the permanent room sensor or temporarily connected as a technician's service tool.
- Fully integrated digital controller, actuator and differential pressure transducer in one compact assembly.
- Use the companion room sensor for setup, commissioning and balancing.
- Controllers feature simple, menu-driven setup choices.

Controllers

MODEL	Single Duct Heating & Cooling	Dual Duct Heating & Cooling	DATLimiting	1, 2, 3 Staged Reheat	Floating Reheat	Modulating Reheat	Time Proportional Reheat	Series Fan	Parallel Fan	True Damper Positioning	90 Second Rotation	60 Second Rotation
BAC-8001	X										X	
BAC-8005	X		X	X	X	X	X	X	X		X	
BAC-8007		X									X	
BAC-8205	X		X	X	X	X	X	X	X	X		X

Sensors

MODEL	Temperature Sensor	Set Point Dial	Override Button	Set Point Buttons	Motion Sensor	Digital Display	Configuration Tool	Balancing Tool
STE-8001W80	X			X		X	X	X
STE-8201W80	X			X	X	X	X	X
STE-6010W80	X							
STE-6014W80	X	X						
STE-6017W80	X	X	X					

SPECIFICATIONS

AirFlow Sensor Features:

CMOS differential pressure 0-2 inches of water (0-500 Pa) measurement range. Internally linearized and temperature compensated

- Configured as BACnet analog input object
- Span accuracy 4.5% of reading
- Zero point accuracy 0.0008 in. H₂O/0.2 Pa at 25° C
- Barbed connections for 1/4 inch FR tubing

Actuator Features

All controller models include an integrated actuator.

- **Torque 40 in-lb.:** (4.5 N•m)
- **Angular Rotation:** 0 to 95° Adjustable end stops at 45 & 60° rotation

Motor Timing

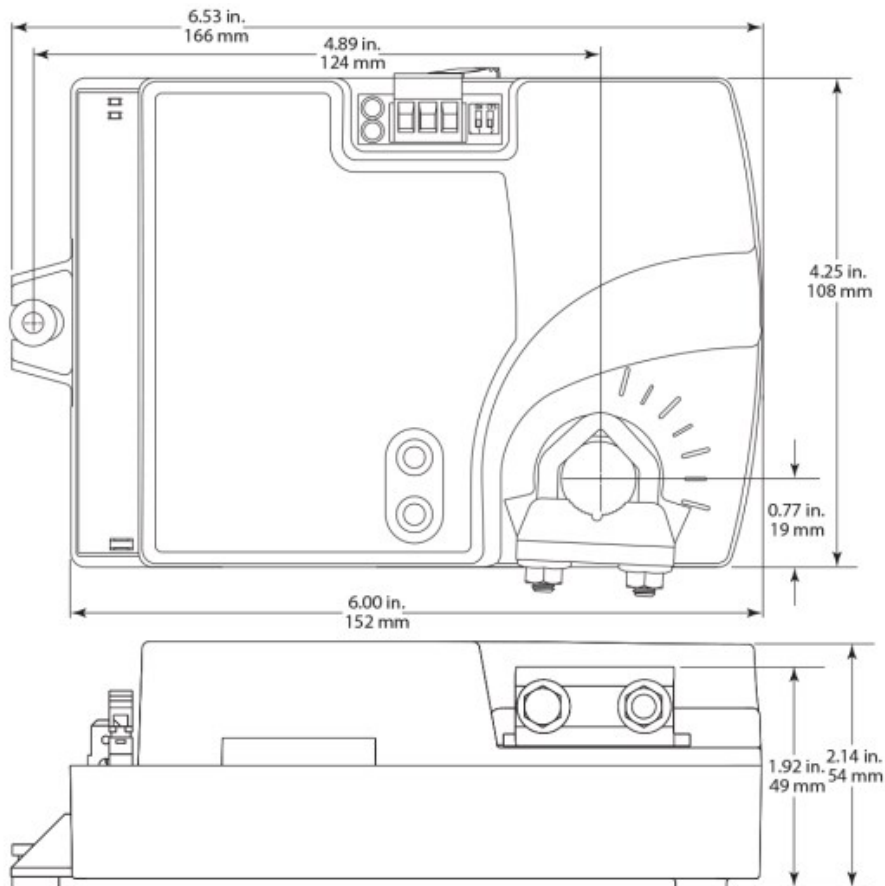
BAC-8001 – 90 sec./90° at 60 Hz

BAC-8005/BAC-8007 – 108 sec./90° at 50 Hz

BAC-8205 – 60 sec./90° at 60 Hz

Shaft Size

Directly mounts on 3/8 to 5/8 inch (9.5 to 16 mm) round or 3/8 to 7/16 inch (9.5 to 11 mm) square damper shafts.



Operating Sequences

The following SimplyVAV models are supplied with factory included programs.

BAC-8001

Model BAC-8001 is supplied with inputs, outputs, and sequences of operation for the following functions:

- Single duct heating and cooling VAV
- Automatic heating/cooling changeover including morning warmup
- Occupancy setback—requires STE-8201
- System diagnostic indicators
- Airflow balancing

BAC-8005 and BAC-8205

Models BAC-8005 and BAC-8205 are supplied with inputs, outputs, and sequences of operation for the following functions:

- Single duct heating and cooling VAV
- Modulating, floating, time proportional, and staged reheat
- Series and parallel fan control
- Automatic heating/cooling changeover including morning warmup
- Discharge air temperature limiting
- Occupancy setback—requires STE-8201
- Actuator position feedback for true damper positioning (BAC-8205 only)
- System diagnostic indicators
- Airflow balancing

BAC-8007

Model BAC-8007 is supplied with inputs, outputs, and sequences of operation for the following functions:

- Dual-duct VAV heating and cooling
- Occupancy setback—requires STE-8201
- System diagnostic indicators
- Airflow balancing
- Uses TSP-8001 for secondary damper control

BACnet Communication

- Integrated peer-to-peer BACnet MS/TP network communications
- Network speed from 9,600 to 76,800 baud
- Meets or exceeds ANSI/ASHRAE BACnet Standard 135-2008 for Application Specific Controllers

Support

P.O. Box 410
Schofield, WI 54476-0410 USA

Phone: 715.359.6171

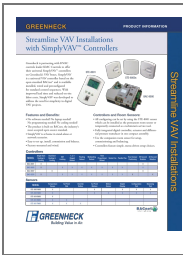
Fax: 715.355.2399

greenheck.com

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Documents / Resources



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STE-8001, AirFlow Digital Sensor, STE-8001 AirFlow Digital Sensor, Digital Sensor, Sensor

References

- [Greenheck | Building Value in Air](#)

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