

W7212, W7213, W7214 Economizer Logic Modules

FOR VENTILATION CONTROL

SPECIFICATION DATA



APPLICATION

W7212, W7213, and W7214 Economizer Logic Modules are used with C7232 or C7632 Demand Control Ventilation (DCV) Sensors, and solid state C7400 Enthalpy Sensors or C7660 Dry Bulb Temperature Sensors. All models proportion outdoor and return air dampers for control of free cooling in commercial HVAC equipment.

FEATURES

- Operates from thermostat and DCV sensor to provide a totally integrated control system.
- Solid state control package provides accurate, reliable and stable control.
- Mounts on M7215 Motor or duct work.
- Control can be tempered by DCV and fan cycling.
- The W7212 is used with Honeywell Series 72 actuators.
- Combines minimum and DCV maximum damper position potentiometers and compressor staging relay functions with solid state enthalpy or single dry bulb changeover control.
- Terminals included for switching between Occupied and Unoccupied operation.
- Terminals included for connecting optional S963B1128 Remote Potentiometer for remote minimum damper position control.
- LED indicates when free cooling is available.
- LED indicates when module is in DCV mode.
- LED indicates when exhaust fan contact is closed.
- W7212 is used with conventional systems.
- W7213 is used with heat pump B terminal.
- W7214 is used with heat pump O terminal.

SPECIFICATIONS

Models:

W7212A Logic Module: for use with any 2-10 Vdc actuator; includes indoor input (DCV).

Electrical Ratings:

Input Voltage: 24 Vac \pm 20%, 50/60 Hz (Class 2).
Nominal Power Consumption (at 24 Vac, 60 Hz): 11.5 VA.
Relay Contact Rating at 30 Vac: 1.5A run, 3.5A inrush.

IMPORTANT

All inputs and outputs must be 24 Vac Class 2.

Ambient Ratings:

Temperature: -40°F to +149°F (-40°C to +65°C).
Humidity: 5 to 95 percent rh (noncondensing).



Enthalpy Input (C7400):

2-wire (18, 20, 22 AWG) connection.

Dry Bulb Temperature Input (C7660):

2-wire (18, 20, 22 AWG) connection.

Discharge Air Input (C7046):

2-wire (18, 20, 22 AWG) connection.

Mixed Air Input (C7150):

2-wire (18, 20, 22 AWG) connection.

Demand Control Ventilation Input (C7232 or C7632):

0/2-10 Vdc control signal; 100K ohm input impedance.

Outputs:

2-10 Vdc.

24 Vac out: 25 VA maximum.

Approvals:

Underwriters Laboratories Inc.: UL873 listed.

Flammability Rating: UL94-5VB.

CE.

C-tick.

Accessories:

4074EJM Bag Assembly. Consists of: Checkout jumper, 620 ohm, 1.2K ohm, 5.6K ohm, and 6.8K ohm checkout resistors.

C7046A Discharge Air Temperature Sensor.

C7150B Mixed Air Temperature Sensor.

C7232 Carbon Dioxide Sensor.

C7632 Carbon Dioxide Sensor.

C7400 Solid State Enthalpy Sensor.

C7660 Dry Bulb Temperature Sensor.

S963B1128 Remote Potentiometer to provide remote control of damper minimum or maximum position.

ST6008 Energy Management Timer for occupied/ unoccupied control.

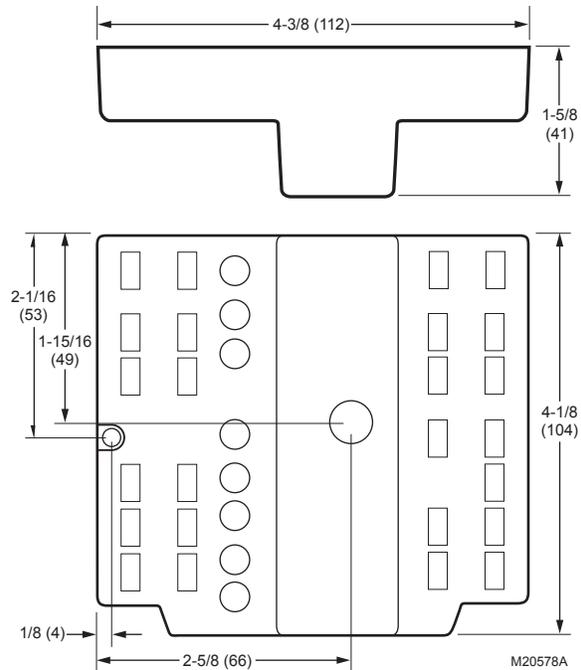
CAUTION

Equipment Damage Hazard.

Mounting screws longer than 5/8 in. can damage internal motor components.

When mounting the module to an M7215 use only the included #6 5/8 in. thread-forming screw.

Dimensions in in. (mm):



TYPICAL SPECIFICATION

Free cooling controllers shall be solid state electronic devices capable of providing integrated sensor based demand control ventilation (DCV) and solid state differential enthalpy or referential dry bulb free cooling changeover control. Integrated controllers must be capable of sensor based DCV function to override free cooling functions.

Controller design shall allow for roof-mounting or remote mounting (in a location such as a mechanical room).

Controller models must provide 2-10 Vdc proportional control output designed to drive outdoor air and return air damper motors or actuators. Controller must provide integrated exhaust fan control outputs. Controllers must provide adjustable minimum and DCV maximum damper position potentiometers and illuminated LEDs indicating when the controller is in free cooling and DCV modes.

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