



W7215 and W7460 ECONOMIZER Logic Module

FOR VENTILATION CONTROL

W7215 and W7460 ECONOMIZER Logic Modules are used with an indoor sensor input (ISI) or DCV (Demand Control Ventilation) sensor, and solid state C7400 Enthalpy Sensors or C7660 Dry Bulb Temperature Sensor. All models proportion outdoor and return air dampers for control of free cooling in commercial HVAC equipment. The W7215B and W7460B are used with an outdoor sensor input (OSI) (DCV) along with the ISI (DCV).

SPECIFICATIONS

Electrical Ratings:

- ☐ Input Voltage: 24 Vac +20%, -15%; 50/60 Hz (Class 2).
Nominal Power Consumption (at 24 Vac, 60 Hz):
 - ☐ W7215A, W7460A: 10 VA.
 - ☐ W7215B, W7460B: 10.5 VA.
- ☐ Relay Contact Rating at 30 Vac: 1.5A run, 3.5A inrush.

IMPORTANT

All inputs and outputs must be 24Vac Class 2.

Temperature Ratings:

- ☐ Operating Ambient: -25°F to +125°F (-32°C to +52°C).
- ☐ Shipping: -25°F to +125°F (-32°C to +52°C).

Humidity (Noncondensing):

- ☐ 5 to 95 percent relative humidity (RH).

Approvals:

- ☐ Underwriters Laboratories Inc.:
 - ☐ Flammability Rating: UL94V-5V.
 - ☐ Plenum Rating: UL873.

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.

Indoor Sensor Input:

- ☐ 2-10 Vdc control signal.

Outdoor Sensor Input (W7215B and W7460B only):

- ☐ 2-10 Vdc control signal.

Outputs:

- ☐ W7215: 2-10 Vdc.
- ☐ 24 Vac out (W7215 only): 25 VA maximum.

SPECIFICATION DATA

FEATURES

- Operates from thermostat and ISI or DCV sensor to provide a totally integrated control system.
- Solid state control package provides accurate, reliable and stable controls.
- High-impact, glass-fiber reinforced plastic case.
- Mounts on duct or in mechanical room.
- Control can be tempered by ISI or DCV and fan cycling.
- Shutdown and Air Change can be used with all models.
- Purge cycling used with select models.
- LEDs indicate when module is in ISI or DCV and free cooling mode.

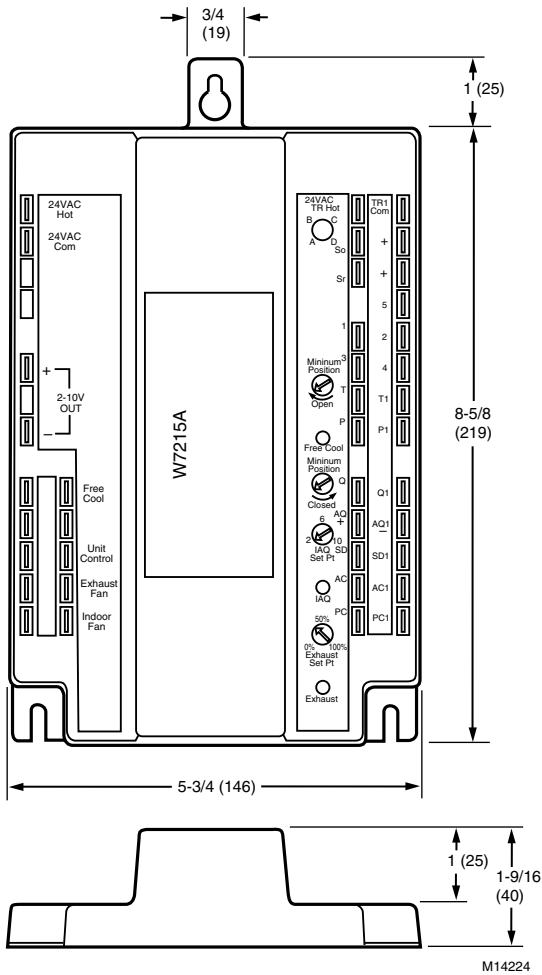


Models:

W		Logic Module			
		☐ 72	For use with Series 72 Actuator		
		☐ 74	For use with M7415 Motor		
		☐ 15	Use with any actuator		
		☐ 60	Use with M7415 Motor		
		A	Indoor Input (ISI) or DCV only		
		B	ISI and Outdoor Sensor Input (OSI)		
W				XXXX	Varies by Model

NOTE: All models include minimum and maximum position potentiometers, setpoint for enthalpy or dry-bulb, and ISI setpoint. Labeled IAQ Setpoint.

Dimensions:



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

Controllers shall provide optional integrated shutdown, and air change cycling control. Demand Control Ventilation (ISI) input models shall include optional integrated purge control. Indoor and outdoor air sensor models shall include dry contact closure alarm capability.

ACCESSORIES

- ☐ 4074EJM Bag Assembly. Consists of: Checkout jumper, 620 ohm, 1.2K ohm, 5.6K ohm, and 6.8K ohm checkout resistors, and 536 ohm, 665 ohm, and 3480 ohm resistors for use with Honeywell Series 90 Actuators.
- ☐ C7046A Discharge Air Temperature Sensor.
- ☐ C7150B Mixed Air Temperature Sensor.
- ☐ C7400 Solid State Enthalpy Sensor.
- ☐ C7660 Dry Bulb Temperature Sensor.
- ☐ C7232 CO₂ Sensor
- ☐ C7632 CO₂ Sensor
- ☐ S963B1128 Remote Potentiometer to provide remote control of damper minimum or maximum position.
- ☐ ST6008 Energy Management Timer for occupied/unoccupied control.

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