

Economizer Logic Modules

JADE™ Economizer Module with Sensors and Actuators



The JADE™ Economizer System is an expandable economizer control system, which includes a W7220 Economizer Module (controller) with an LCD and keypad. The W7220 can be configured for 4 different economizer strategies: referential or differential dry bulb, referential or differential enthalpy.

The W7220 Economizer Module can be used as a standalone economizer module wired directly to a commercial set back space thermostat and sensors to provide Outdoor Air dry-bulb economizer control.

The W7220 Economizer Module can be connected to optional Sylk Bus sensors for single or differential enthalpy control. The W7220 Economizer Module provides power and communications on the Sylk Bus for the sensors.

The W7220 Economizer Module automatically detects sensors by polling to determine which sensors are present. If a sensor loses communications after it has been detected, the W7220 Economizer indicates a device fail error on the display or through the AUX 1 OUT terminal programmed to SYS.

Dimensions, Approximate: 4.98 in. high x 6.3 in. wide x 1.34 in. deep
(126.4 mm high x 160 mm wide x 34mm deep)

Contact Ratings: 1.5 A Run @ 30 Vac; 3.5 A Inrush @ 30 Vac

Voltage: 24 Vac

Frequency: 50 Hz; 60 Hz

Operating Temperature Range: -40 F to -150 F (-40 C to +65 C)

Operating Humidity Range (% RH): 5 to 95% RH, non-condensing

Color: Gray

Used With: C7232; Honeywell Series 72 actuators; C7250A and C7400S sensors

Approvals

CE: CE Compliance

C-Tick: Approved

Federal Communications Commission: Compliant

Underwriters Laboratories, Inc: Flammability Rating UL94V-5V

Other Agencies: Complies with California Title 24

Product Number	Input	Output	Use with Sensor
W7220A1000/U	Y1, Y2 and occupied input in from thermostat or unitary controller, 24 VAC power, Mixed air sensor, OA sensor and optional CO2 and RA sensors. And Programmable AUX 2 In.	Y1 and Y2 out to the mechanical cooling, AUX 1 out (programmable), 2-10 or SYLK communicating to the actuator.	C7250A1001/U and C7400S1000/U sensors.

Jade Y-packs

Product Number	Control Type	Includes	Comments
Y7220A7215/U	Dry Bulb with black motor	W7220A1000 Logic Module; C7250A1001 OAT sensor; C7250A1001 MAT sensor; M7215A1008 Black motor	Output - 2-10 Vdc to actuator
YL7220A7503/U	Dry Bulb with non-communicating DCA	W7220A1000 Logic Module; C7250A1001 OAT sensor; C7250A1001 MAT sensor; MS7503A2030 DCA OA	Output - 2-10 Vdc to actuator
YL7220AJ3103/U	Dry Bulb with communicating 27 lb-in DCA	W7220A1000 Logic Module; C7250A1001 OAT sensor; C7250A1001 MAT sensor; MS3103J1030 DCA OA	Sylk communicating actuator
YL7220AJ3105/U	Dry Bulb with communicating 44 lb-in DCA	W7220A1000 Logic Module; C7250A1001 OAT sensor; C7250A1001 MAT sensor; MS3105J3030 DCA OA	Sylk communicating actuator
YL7220ACW3103/U	Dry Bulb with communicating 27 lb-in DCA and CO2 wall sensor without a display	W7220A1000 Logic Module; C7250A1001 OAT sensor; C7250A1001 MAT sensor; MS3103J1030 DCA OA; C7632A1004 CO2 sensor	Sylk communicating actuator
Y7220S7215/U	Enthalpy with black motor	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; M7215A1008 Black motor	Output - 2-10 Vdc to actuator
Y7220SCW7215/U	Enthalpy with black motor and CO2 wall sensor with a display	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; M7215A1008 Black motor; C7232A1016 CO2 sensor	Output - 2-10 Vdc to actuator
Y7220SCD7215/U	Enthalpy with black motor and CO2 duct sensor with a display	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; M7215A1008 Black motor; C7232A1016 CO2 sensor	Output - 2-10 Vdc to actuator
YL7220S7503/U	Enthalpy with non-communicating DCA	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; MS7503A2030 DCA OA	Output - 2-10 Vdc to actuator
YL7220SJ3103/U	Enthalpy with communicating 27 lb-in DCA	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; MS3103J1030 DCA OA	Sylk communicating actuator
YL7220SJ3105/U	Enthalpy with communicating 44 lb-in DCA	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; MS3105J3030 DCA OA	Sylk communicating actuator
YL7220SCW3103/U	Enthalpy with communicating 27 lb-in DCA and CO2 wall sensor with a display	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; MS3103J1030 DAC OA ; C7232A1016 CO2 sensor	Sylk communicating actuator
YL7220SCD3103/U	Enthalpy with communicating 27 lb-in DCA and CO2 duct sensor with a display	W7220A1000 Logic Module; C7400S1000 OAE sensor; C7250A1001 MAT sensor; MS3103J1030 DAC OA ; C7232B1014 CO2 sensor	Sylk communicating actuator