

Honeywell

JADE™ Economizer Module

(MODEL W7220)



This document describes wiring, power up, basic troubleshooting, and common installation issues for the JADE™ Economizer Module (Model W7220). For further information on mounting and operation, refer to Honeywell document 63-2700.

BEFORE INSTALLATION

Review the following before installing the Tite W7220:

Electrical

Rated Voltage: 20 to 30 Vdc RMS; 50/60 Hz
Transformer: 100 VA maximum system input

Relay Digital Output Rating: 30 Vdc

IMPORTANT

All inputs and outputs must be Class 2 wiring.

Inputs

A Mixed air (MA) analog sensor is required on all W7220 units; either an OA (Outdoor Air) sensor for dry bulb change over or an OA Sykbus sensor for outdoor enthalpy change over is required in addition to the MA sensor. An additional Return Air (RA) Sykbus sensor can be added to the system for differential enthalpy changeover. JADE can be used with a CO2 indoor air sensor for Demand Control Ventilation and with a VFD for two speed fan operation.

INSTALLATION INSTRUCTIONS

DCV (CO₂) Sensor (CF232): 2-10 Vdc control signal, minimum impedance >50k ohm.

Outputs

Actuator signal: 2-50 Vdc, minimum actuator impedance is 2k ohm, Sykbus two-wire output for Honeywell Sykbus communicating actuators.

Exhaust fan, Y1, Y2 and AUX1 Q: Contact closure (24 Vdc)

All Relay Outputs (at 30 Vdc):
Running: 1.5A maximum
Inrush: 7.5A maximum

When Installing This Product

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check ratings given in instructions and on the product to ensure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.
5. For additional detailed information on this product go to customer.honeywell.com and download the product data sheet (kit no 63-2700) or scan QR code located on the label above MAT terminals with your smart phone.

Accessories

- 50048526-001, 2-pin edge connector for sensors (20 pieces per bag)
- 50048526-002, 6-pin edge connector for field wiring (20 pieces per bag)
- CT250 20k sensor for MA or OA (dry bulb changeover)
- CT400S Sykbus sensor for enthalpy control in OA and/or RA and RA for differential dry bulb changeover
- W7220 PCMOD interface tool for JADE controller and Personal Computer. Go to www.customer.honeywell.com/economizer/tools for the software
- 50053090-001, Duct mounting kit for sensors
- CT632 or CT7232 CO₂ sensors



63-2700-01

Jade Economizer Manual

SA Adler



Jade Economizer Manual:

New Pencil Points ,1981 *Marine Engineering/log* ,1983 **Progressive Architecture** Eugene Clute,Russell
Fenimore Whitehead,Kenneth Reid,Elizabeth L. Cleaver,1981 *Thomas Register of American Manufacturers* ,1937 This
basic source for identification of U S manufacturers is arranged by product in a large multi volume set Energy Research
Abstracts ,1981 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming
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studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and
abstract Corporate author subject report number indexes Machinery Market ,1946

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