

Commercial Components Technical Bulletin

SUBJECT: Replacement of W7213Axxx or W7214Axxx with W7220A1000 (JADE)	Ref. Number	
	Issue Date	10/29/31
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Suggested Model Number: W7213 and W7214		Date Codes Affected: N/A

Step by step guide to assist you in successful replacement of the W7213 or W7214 economizer with a W7220 JADE economizer controller:

1. Remove all wires from the W7213 (W7214). Mark each wire with the terminal designation (e.g., 1,2,3,4, TR1, TR etc.) as it is removed from the W7213 (14).
2. Mount Jade on the inside of the Rooftop unit where it will be easy to read the display and to change the settings.
3. Wire JADE to the existing M7215 motor using three new wires and ¼ in quick connects on motor end of wires:

M7215 wire termination	W7220 Wire termination
TR	ACT 24V (hot)
TR1	ACT COM
IN (+)	ACT (2-10V)

4. Terminate wires removed from the W7212 to the Jade:

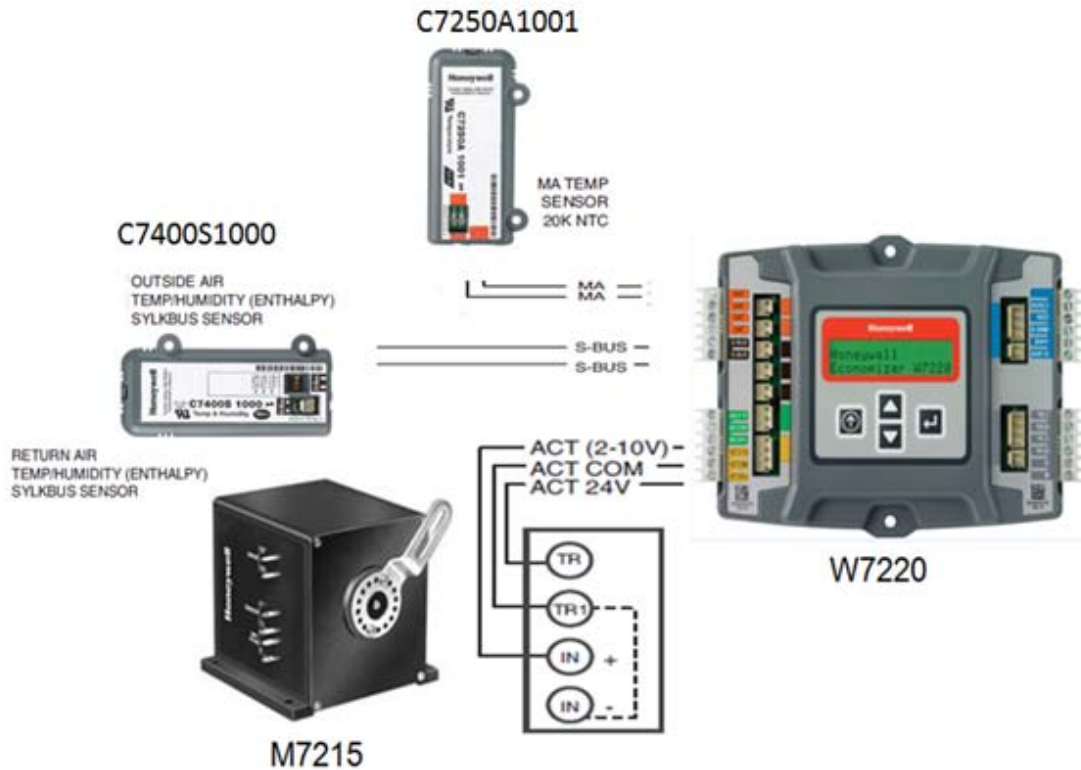
W7213 (14) wire termination	W7220 wire termination
1	Y1-In
2	Y1-Out
3	Y2-In
4	Y2-Out
5	NA
TR	R
TR1	C
O or B	AUX 2 IN – program equipment for Heat pump “O” or Heat pump “B”
P-P1	NA
T-T1	MAT*
So-So+	OAT or S-Bus*
Sr-Sr+	S-Bus*
AQ-AQ1	IAQ terminals **
EF-EF1	EFH1***

*Sensor to be changed

** CO2 sensor no longer requires a separate transformer, can be powered by Jade

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*** EFH1 out is 24 Vac, need to add a DPDT relay between EFH1 and C terminals.



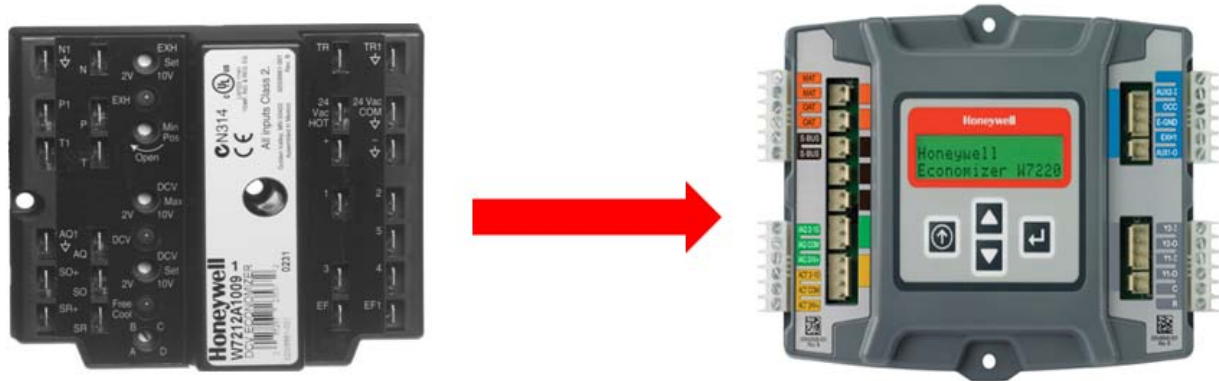
Replace the old sensors with new JADE sensors:

Old Sensor	Description	New Sensor	Termination on W7220
C7046A	Discharge Air	C7400S1000	S-Bus
C7150B	Mixed Air	C7250A1001	MAT
C7400	Solid State Enthalpy	C7400S1000	S-Bus
C7660	Solid State Dry Bulb	C7250A1001	OAT

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There is no longer need for Minimum Position, DCV and Changeover Curve (A, B,C,D) potentiometers.

The changeover curve, CO2 boundaries and minimum position are set using the LCD display menu item “Setpoints” and the 4 buttons on JADE.

For programming Jade refer to the Installation Instructions (62-0331) supplied with the Jade