

Title: Expansion Module Wiring To Stand Alone Price VAV i-Controller REV.112

Expansion Module Pin & Dipswitch Detail

Refer to *Figures 1 & 2* for the following information. The bottom section of Phoenix connectors (red arrow) on this module have two rows, the lower numbers are closest (front) and the higher numbers are against the unit wall. For example: Pins 1-8, 21-25, & 40-50 are in front and Pins 9-16, 26-30, & 51-61 are against the unit wall.

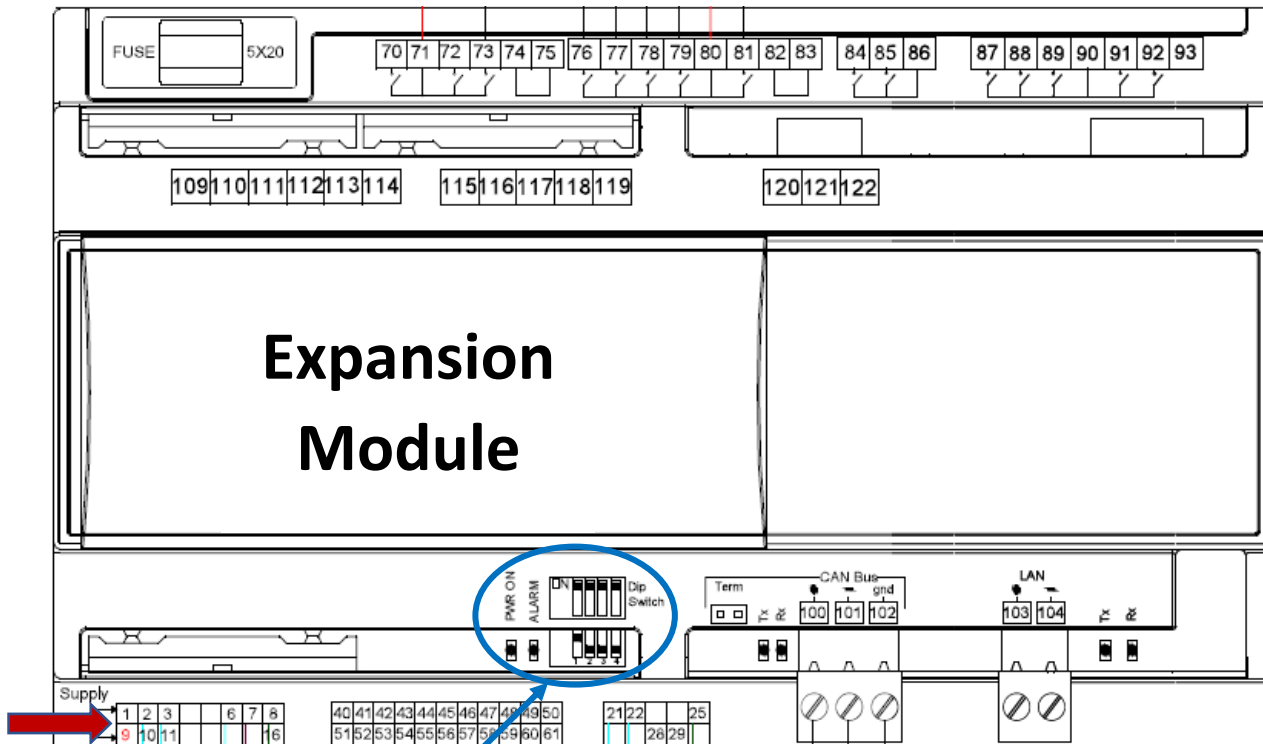


Figure 1

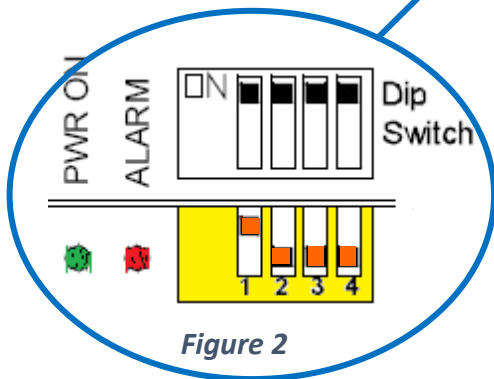


Figure 2

The correct dipswitch settings are within the above blown-up detail colored in yellow.

Note: Switch 1 is On/Up and Switches 2-4 are Off/Down shown in orange above.

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Expansion Module to Price VAV Field Connections

Refer to *Figure 3* for the following information. There are two ways to make VAV field wiring connections to the Flō unit. The unit age will determine how those connections will be made. If the unit is prior to 2017, it will be directly wired to the Expansion module starting on page 3. If the unit is 2017 or newer, it will generally have factory prewired connections going to a Low Voltage Terminal Block (LVTB) shown below. Utilize the entire document for detailed information.

NOTE: Some LVTB numbers may differ slightly.

REV 112 Terminal Block

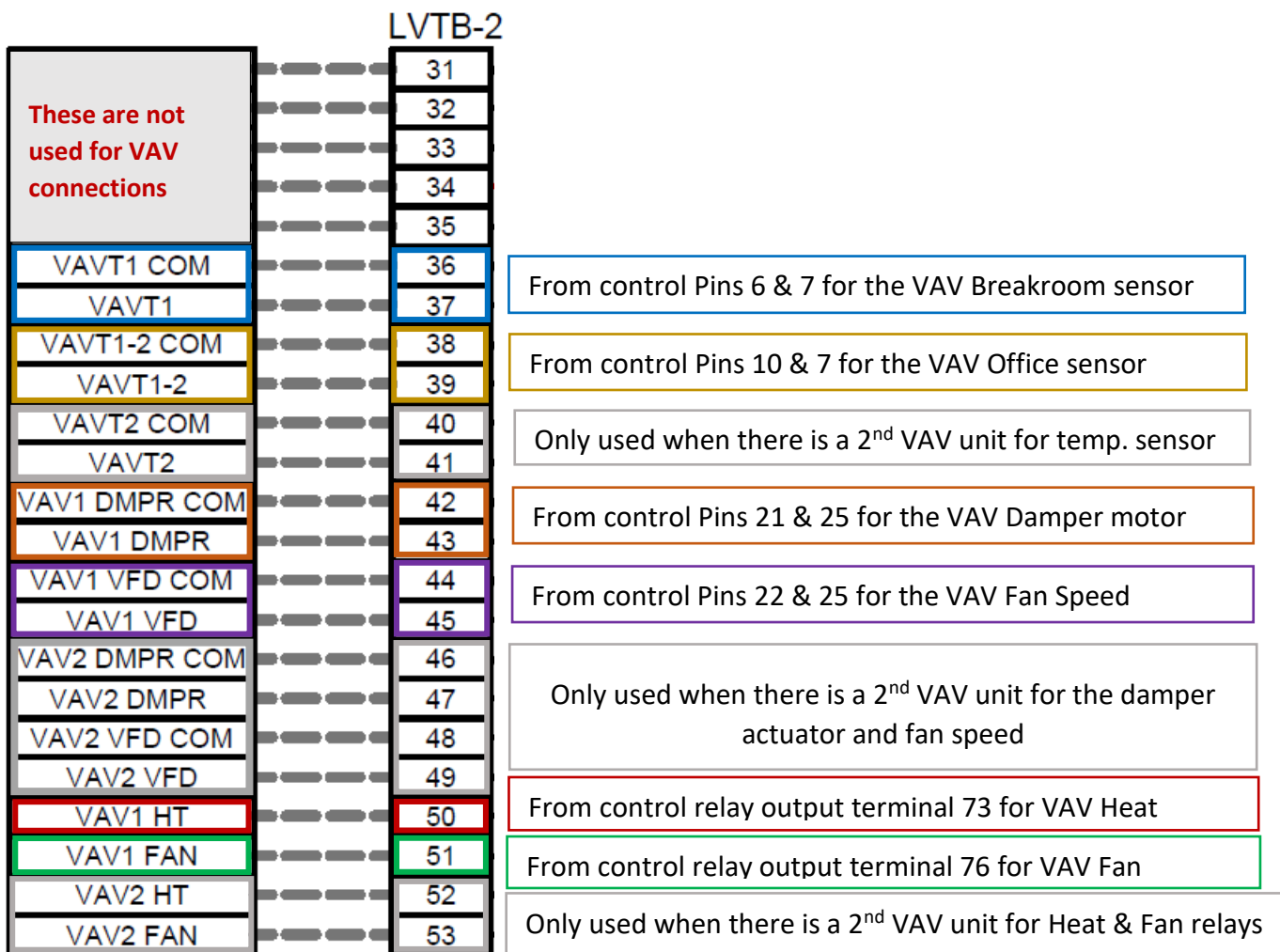


Figure 3

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Expansion Module Sensor Input Detail

Refer to *Figure 4* for the following information. Below are the VAV temperature sensor inputs. A total of four wires will be needed, two will be shared commons on Pin 7. **NOTE:** Only space for one wire going into Pin 7 so they will need to be bundled. There will be two inputs, one for the Breakroom Temperature (Pin 6) & one for the Office Temperature (Pin 10).

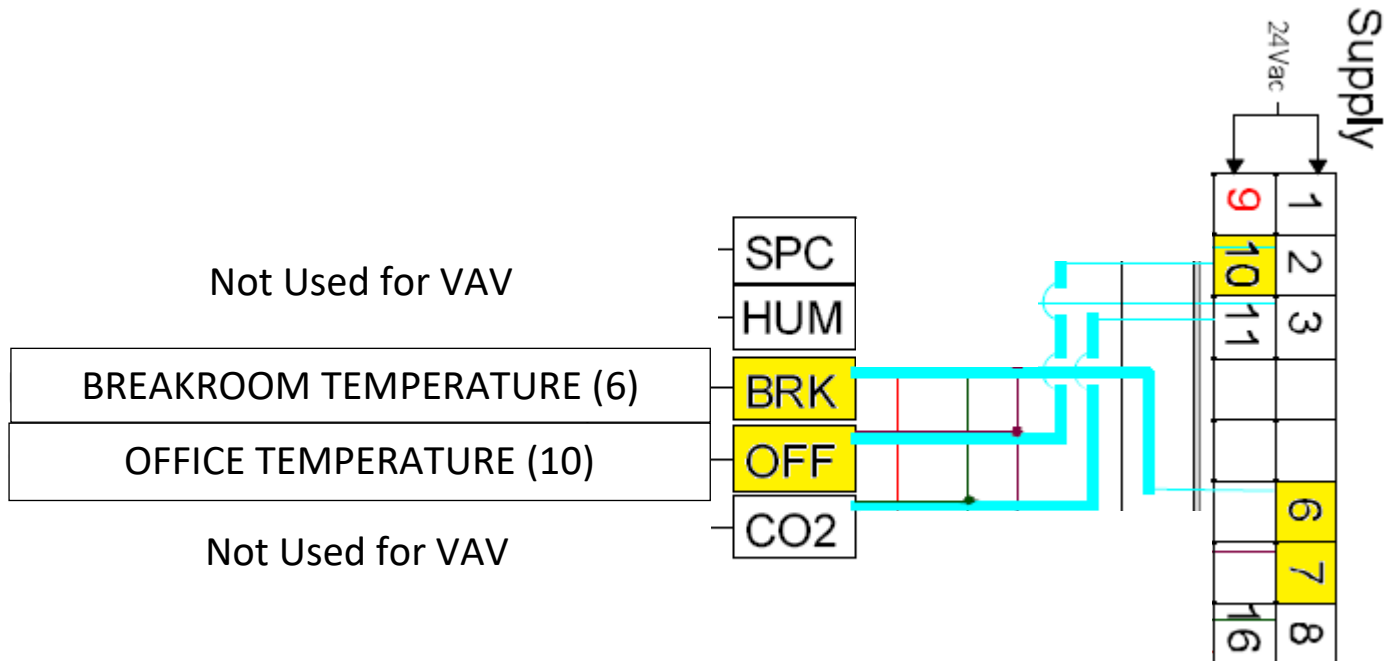


Figure 4

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Expansion Module DC Output Detail

Refer to *Figures 5-7* for following information. Below are the DC voltage outputs. A total of four wires will be needed, two will be shared commons on Pin 25

NOTE: Only space for one wire going into Pin 25 so they will need to be bundled.

There will be two outputs, one for *VAV Damper* (Pin 21) & one for *VAV Fan Speed* (Pin 22). View the Price VAV's internal wiring diagram for full **TB1** detail. The *VAV Fan Speed* common wire will connect to **TB1** on the (-) terminal labelled **BASV -** and DC signal on the (+) terminal labelled **BASV +**. Connect the *VAV Damper* common wire to the 24vac (-) terminal and connect the DC signal wire to the 2-10 VDC terminal on the damper motor. In addition, you will have a 24V wire that needs to come from the CSTB1 in the FLō unit that connects to the 24V (+) terminal on the damper motor.

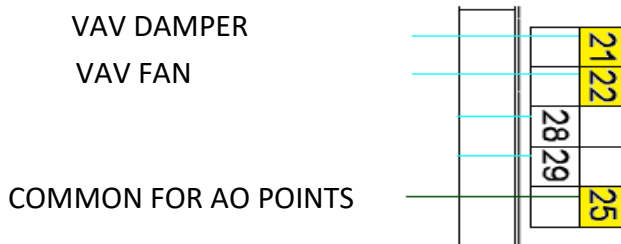


Figure 5

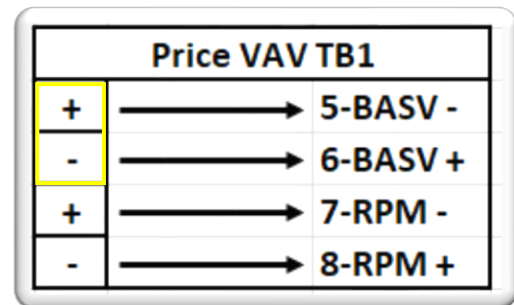


Figure 6

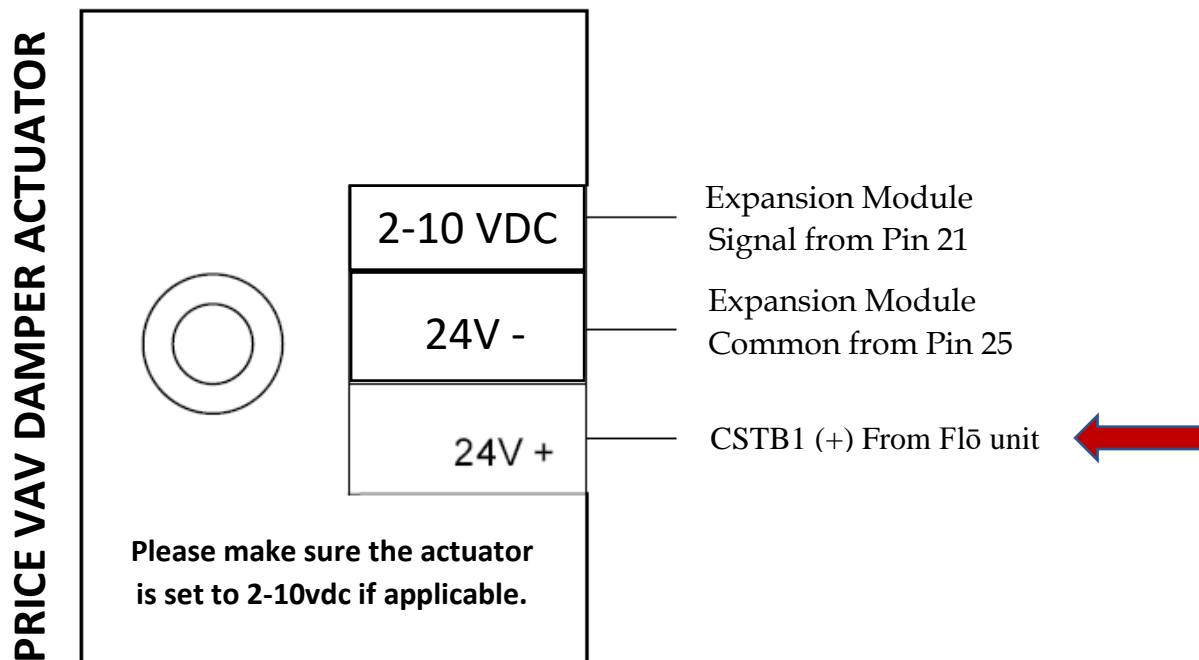


Figure 7

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Expansion Module Relay Output Detail

Refer to *Figures 8 & 9* for the following information. Below are the 24vac Booster Heat & Fan Relay outputs along with the two required additional **field installed** isolation relays & wiring details. Two common wires will come down from the FLō units CSTB1 to the Price VAV with each going to the common side of the isolation relays coil. The additional output wires will come from the VAV Booster Heat (Terminal 73) and the VAV Fan (Terminal 76) and will go to the hot side of the isolation relays coil.

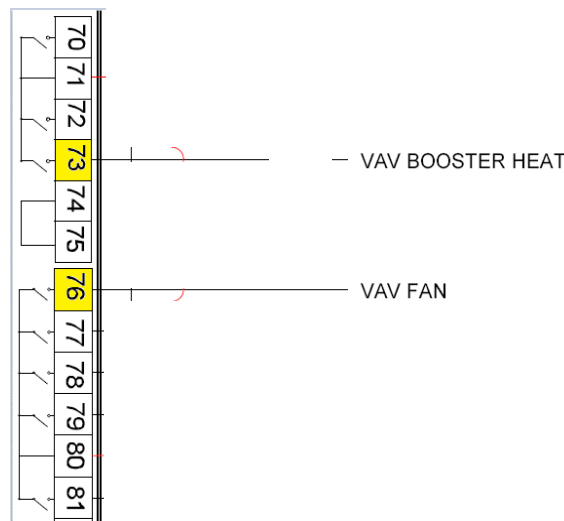


Figure 8

PRICE VAV

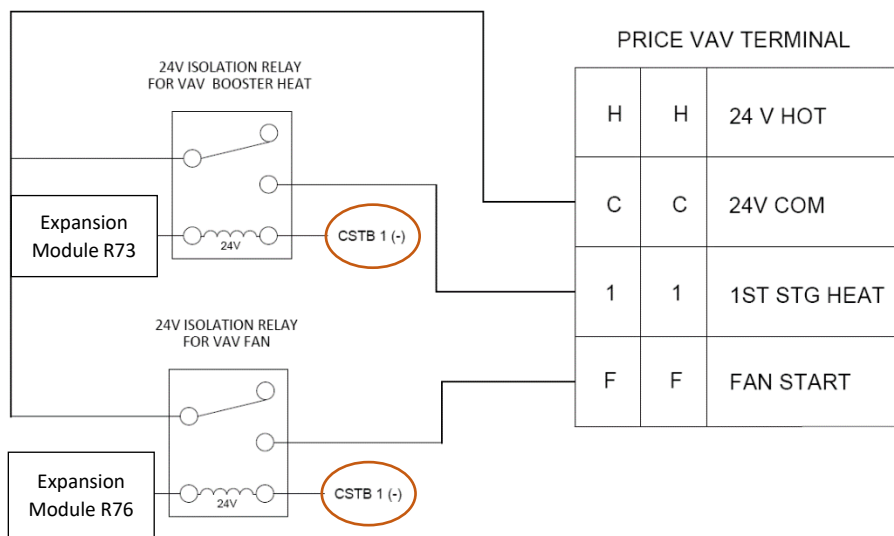


Figure 9