

## Third Party Control Input (Indoor and/or Outdoor Board)

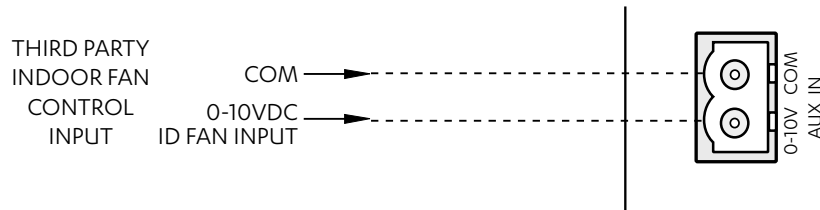
This option allows Fan, Compressor and Reversing Valve to be controlled by a Third Party Control. There are two ways on how the Indoor Fan may be controlled, using 0-10V Analogue Input or Fixed Indoor Fan Speed.

### NOTE

- Demand Response Management (DRM) is not available if Third Party Control Option is used.
- Make ensure control source has been configured for Third Party Control.

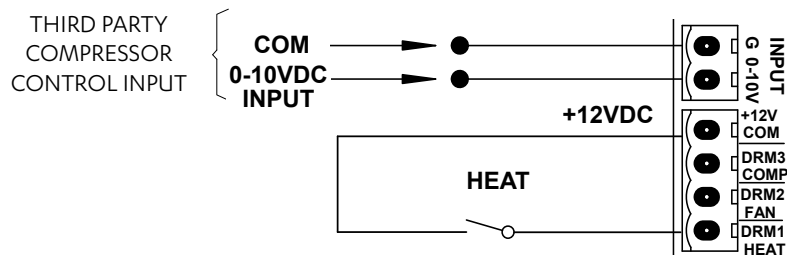
### 0-10V Analogue Input for Compressor and Indoor Fan

#### Indoor Fan Connection (Indoor Board)



Input (DC)	Output	Fan Status
0.0V to 0.99 V	0%	Off
1.0V to 1.49 V	0 or 20%	Off or On
1.5V to 9.5 V	20% to 100%	On
9.5V to 10 V	100%	On

#### Compressor and Reversing Valve Connection (Outdoor Board)



Input (DC)	Output	Compressor Status
0 - 0.99 V	0%	Off
1 - 1.49 V	0 or 20%	Off/On (hysteresis)
1.5 - 9.5 V	20% to 100%	On
9.5 - 10 V	100%	On

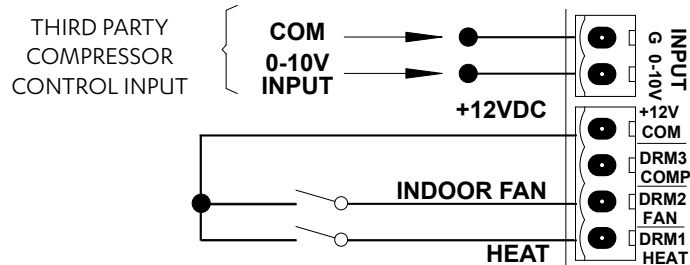
### NOTES

- As the compressor turns ON and the Indoor fan signal is not available then indoor fan will start to run on medium PWM speed.
- Indoor fan low and high PWM limits depends upon the model.
- The Voltage can be linearly interpolated using the above table to determine the desired PWM or unit output.

## 0-10V Analogue Input for Compressor with Fixed Indoor Fan Speed

This feature allows for the Indoor Fan to be controlled externally (ON/OFF only).

### Fan, Compressor and Reversing Valve Connection (Outdoor Board)



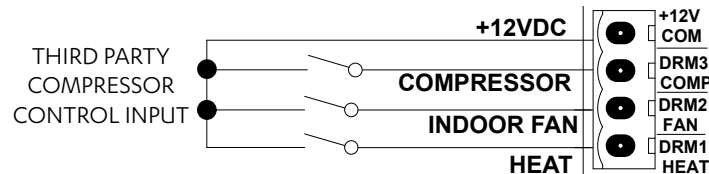
### NOTES

- As the compressor turns ON and the Indoor fan signal is not available then indoor fan will start to run on medium PWM speed.
- Indoor fan operation when fan signal is available:
  - Compressor ON : Indoor fan will run on medium speed.
  - Compressor OFF : Indoor fan will run on reduce airflow operation.

## Input for Fixed Compressor with Fixed Indoor Fan Speed

This feature allows for both Compressor and Indoor Fan to be controlled externally (ON/OFF only).

### Fan, Compressor and Reversing Valve Connection (Outdoor Board)



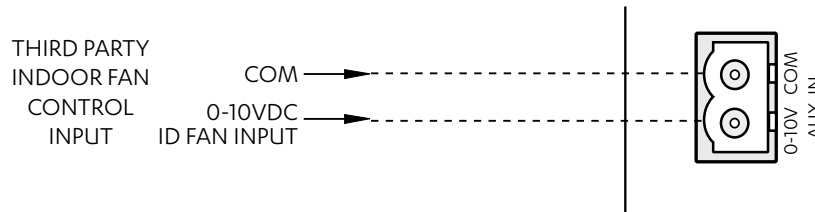
### NOTES

- As the compressor turns ON and the Indoor fan signal is not available then indoor fan will start to run on medium PWM speed.
- Indoor fan operation when fan signal is available:
  - Compressor ON : Indoor fan will run on medium speed.
  - Compressor OFF : Indoor fan will run on reduce airflow operation.
- Compressor turns on with 100% speed request.
- Although the compressor will have 100% speed request, the speed may vary depending on compressor safety requirements.

### 0-10V Analogue Input for Indoor Fan with Fixed Speed Compressor

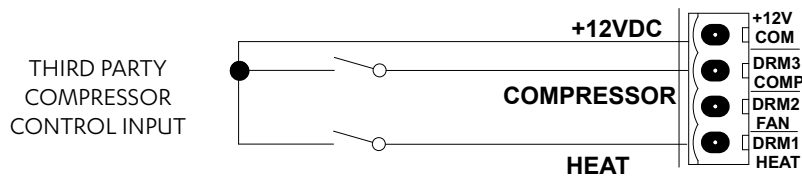
This feature allows for the compressor to be controlled externally (ON/OFF only).

#### Indoor Fan Connection (Indoor Board)



Input (DC)	Output	Fan Status
0.0 V to 0.99 V	0%	Off
1.0 V to 1.49 V	0 or 20%	Off or On
1.5 V to 9.5 V	20% to 100%	On
9.5 V to 10 V	100%	On

#### Fan, Compressor and Reversing Valve Connection (Outdoor Board)

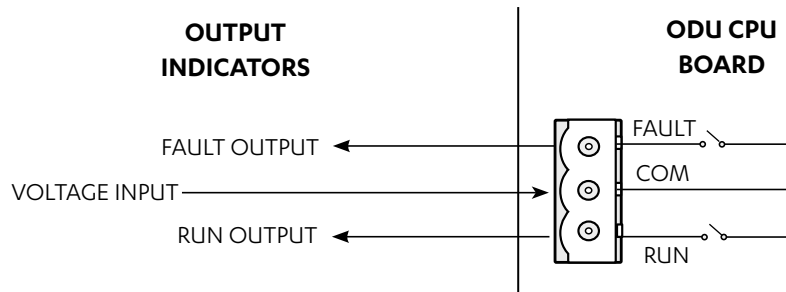


#### NOTES

- As the compressor turns ON and the Indoor fan signal is not available then indoor fan will start to run on medium PWM speed.
- If the compressor turn ON, during reduced fan operation, the controller will increase the fan speed to the "low PWM fan limit" if it is running less than the low PWM Limits.
- Indoor fan low and high PWM limits depends upon the model.
- The Voltage can be linearly interpolated using the above table to determine the desired PWM or unit output.
- Compressor turns on with 100% speed request.

### Run and Fault Indication Output (Outdoor Board)

To activate, the unit must be wired as illustrated below. If required, a fault output connection terminal is also available to show any error/fault with the a/c system. RUN/FAULT relay outputs (230VAC/5A MAX) connection.



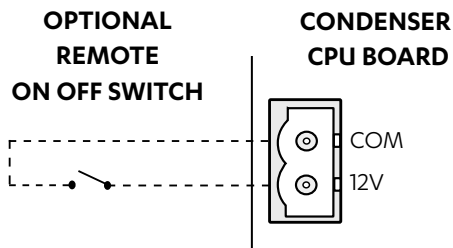
Run Output is configurable to indicate that the unit is running. There are two configurations in which this can be set:

- Either the compressor or the Indoor Fan only is running
- Only Compressor is running.

By default, this is set to turn on when either indoor fan or compressor is operating. To set up to compressor run indication only, in OD Board Menu follow below steps.

1. Using the **MENU** and the **ENTER** Buttons on the outdoor PCB, navigate to **SEt** (Settings) → **run** (Unit Operation Indicator Settings).
2. If required, press **MENU** to navigate to **YES**.

## Remote On/Off



Turning the system On and Off by remote method	
Turning the system On	Status 1: The system is Off and the remote switch/relay has been left in the open position. <ol style="list-style-type: none"> <li>1. Close remote switch/relay.</li> <li>2. System will start in approximately 1 minute.</li> </ol>
	Status 2: The system is Off and the remote switch/relay has been left in the closed position. <ol style="list-style-type: none"> <li>1. Open remote switch/relay for a minimum of 5 seconds.</li> <li>2. Close remote switch/relay.</li> <li>3. System will start in approximately 30 seconds.</li> </ol>
Turning the system Off	Status 3: The system is On and the remote switch/relay has been left in the closed position. <ol style="list-style-type: none"> <li>1. Open remote switch/relay.</li> <li>2. System will turn Off in approximately 1 minute.</li> </ol>
	Status 4: The system is On and the remote switch/relay has been left in the open position. <ol style="list-style-type: none"> <li>1. Close remote switch/relay for a minimum of 5 seconds.</li> <li>2. Open remote switch/relay.</li> <li>3. System will turn Off in approximately 30 seconds.</li> </ol>