

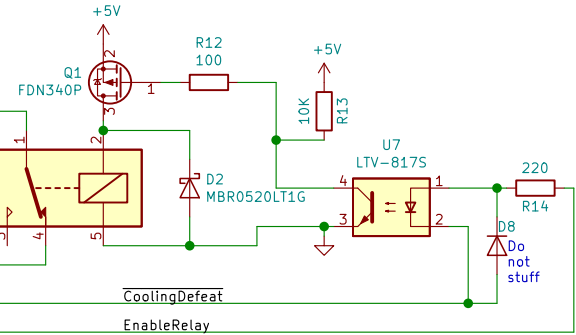
24VAC HVAC Connections:

C - Black or Blue - Common
R or V - Red - 24VAC
Y - Yellow - Cooling
W - White - Heating
W2 - varies - 2nd stage heating
G - Green - Fan
Yout - Connect to Y in HVAC system to enable this module to be able to disable air conditioning.

J1
Conn_01x07_Male

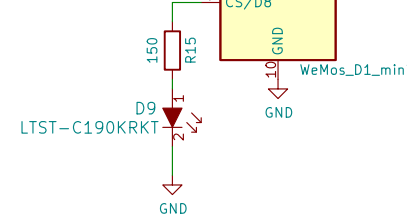
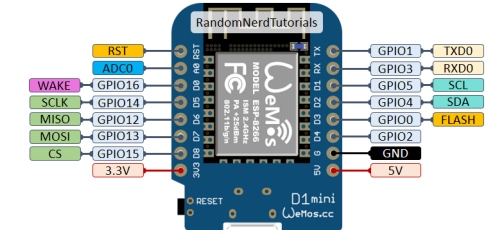
Vin 35
Vout 5
Iout 0.5
fmin 35000
Vripple 0.1
Vf 0.4
Vsat 1
ton/toff 0.186206897
ton+toff 2.85714E-05
toff 2.40864E-05
ton 4.48505E-06
Ct 1.79402E-10
Ipk(sw) 1
Rsc 0.3
Lmin 0.000130066
Co 3.57143E-05

Cooling Defeat Feature.
Activating relay will disconnect Yout from Y, which will disable the thermostat from calling for cooling. Useful for disabling AC during high power use periods.



Note: Two signals are used to drive opto, for redundancy to make sure the relay doesn't fire accidentally during turn-on, turn-off, reboot, etc.

Wemo Mini D1 ESP8266 Pinout as available to ESPHome
Note: Do not use D0, D3, D4, or D8 as inputs because these control the boot mode.



Designed by Howard Pinder

Sheet: /
File: hvac-mon.sch

Title: Thermostat Signal Monitor

Size: A4
Date: Jan 21, 2020
KiCad E.D.A. kicad (5.1.5-0-10_14)

Rev: 0.1
Id: 1/1