

VFD Thermometer and Clock
(c) Christine Thompson 2019

Not all GND wires have been included.

Real Time Clock with battery backup

12V to 5V Step Down Dc-DC converter

12V 1A Power Adapter

IN1 - PIN 8
IN2 - PIN 9
IN3 - PIN 10
IN4 - PIN 11

12V - 140V DC-DC step up booster

5V

12V

GND

16x2 LCD display, used for testing only.

BME280 - Temperature, Pressure and Humidity Sensor

IND-CATHODE

AUX-CATHODE

ANODE

B(3)

C(2)

E(1)

1K, 470ohm, 220K, 1uF, MJE340, 2K Trim-Pot

Current Regulator

Wiper, and one side of Trim pot used.

MJE340 - Viewed from black plastic side, pins are E(1) - C(2) - B(3) from left to right.

LDR

100K

