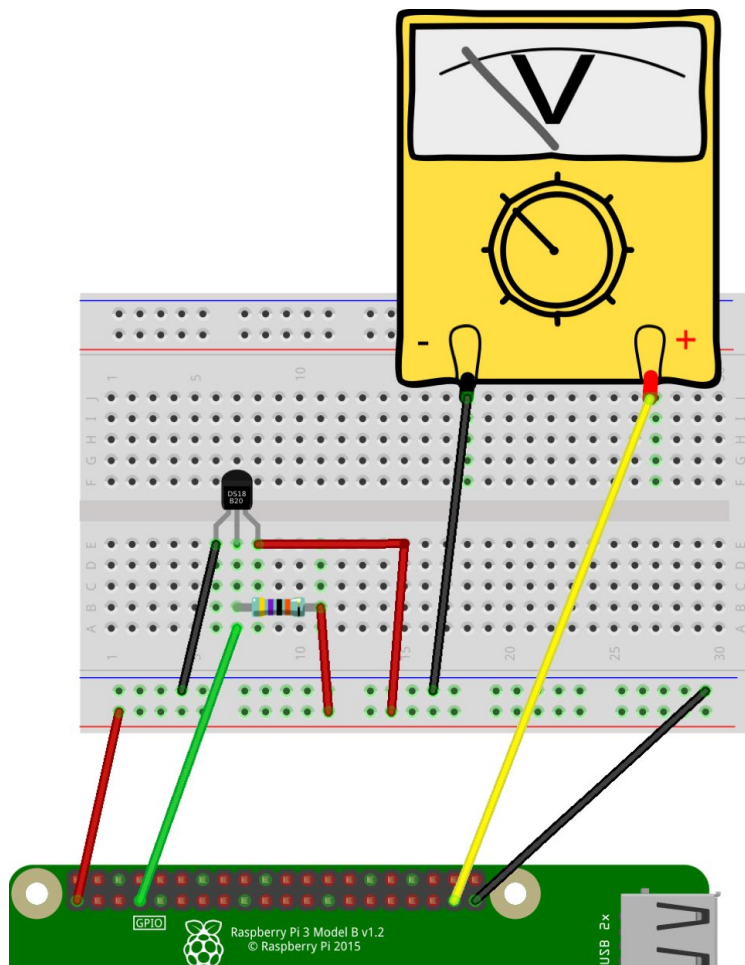


Wire and PWM

Parts List

- Raspberry Pi – any model with GPIO headers
- Jumper wires
- Breadboard
- 10 kΩ resistor
- 0-to-5-volt DC meter
- One or more DS18B20 1-Wire temperature sensors

Circuit Diagram



Circuit Description

- Connect power and ground
 - Connect GPIO pin 1 (3.3 vdc) to breadboard power rail
 - Connect GPIO pin 39 (ground) to breadboard ground rail
- Connect one or more DS18B20
 - Connect DS18B20 black wire to breadboard ground rail
 - Connect DS18B20 yellow wire to GPIO pin 7 (GPIO4/1-Wire)
 - Connect DS18B20 red to breadboard power rail (3.3 vdc)
 - Connect 10 k Ω resistor from DS18B20 yellow to breadboard power rail
- Connect meter
 - Connect meter ground to breadboard ground
 - Connect meter signal to GPIO pin 37 (GPIO26)