

# Temperature Controlled Smart Socket

- [Overview](#)
- [Adding the Temperature Sensor](#)
- [Custom Firmware](#)
- [Additional Information](#)

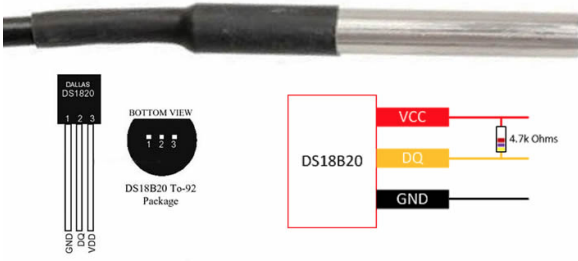
## Overview

This project entails adding a temperature sensor to a SONOFF S20 smart socket and adding custom firmware. I am doing this primarily to help with heating small spaces with a space heater.



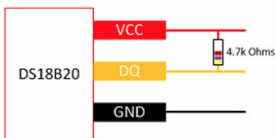
## Adding the Temperature Sensor

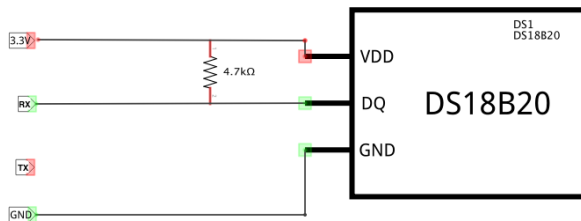
We are using a DS18B20 temperature sensor. I have found these sensors pretty reliable. This particular one is encased in an aluminum probe.



Pin	Color	Signal
1	Red	VCC
2	Yellow	DQ
3	Black	GND

DS18B20 To-92 Package

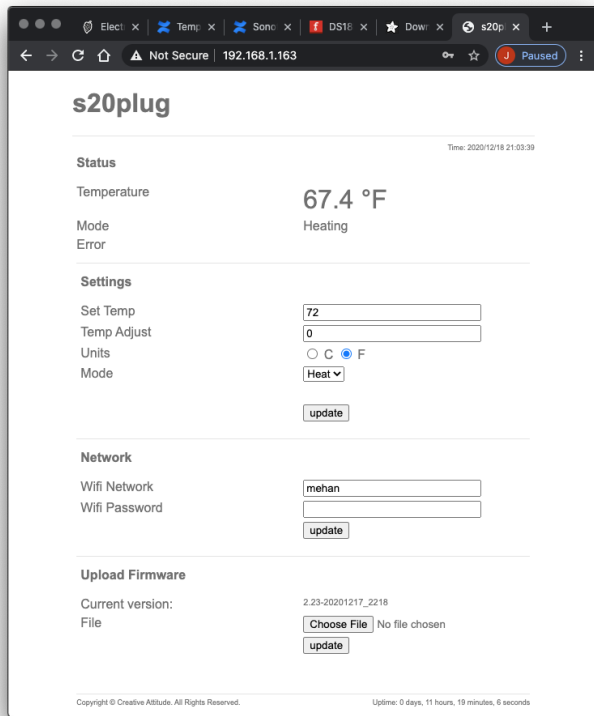




We are connecting the the DS18B20 to the TX pin which is actually the RX pin of the EP8266 chip (GPIO 3).

## Custom Firmware

Our custom firmware allows you to specify a set temp and such via a web interface.



## Additional Information

Desoldering the board is possible by removing the solder from the following three points and prying the board away from the case while heating the solder points. I would not recommend this unless you have really screwed things up.

