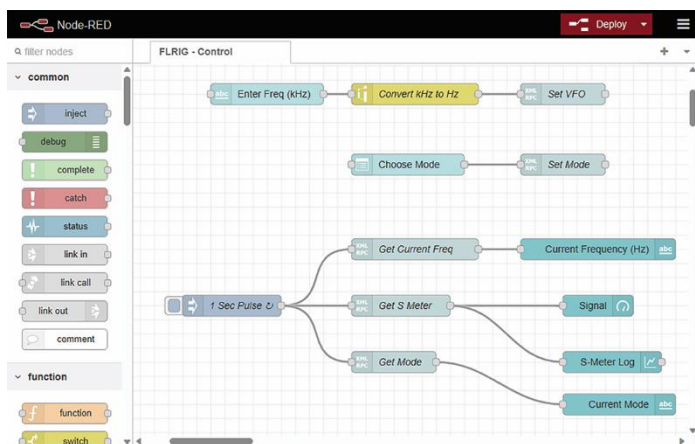


Node-RED

This open-source visual programming language is a cool way to control things around the home or office. You can easily build a web page to switch a Wi-Fi mains plug on or off anywhere worldwide! The Node-RED server software will run on any Windows, Apple or Linux computer.



About 30 minutes



Kit List

- Either Raspberry Pi, Windows PC, Linux PC or Apple PC
- TP-Link Kasa mains plug



Instructions

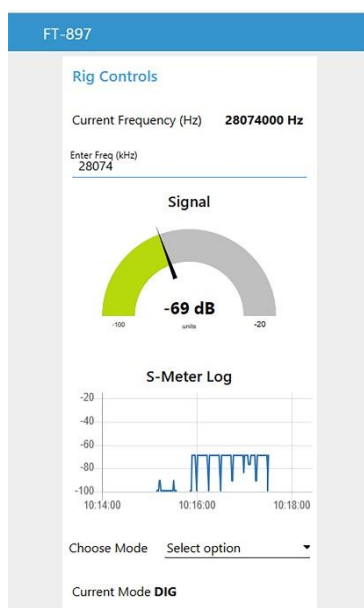
1. Go to <https://nodered.org/docs/getting-started/> and follow the instructions to install Node-RED onto your computer
2. Go to <https://nodered.org/docs/tutorials/> and complete the first and second flow tutorials. This will give you the basic knowledge you need to get started with Node-RED
3. Follow the TP-Link Kasa plug instructions and install it on your local network.
4. Watch the Node-RED Tonight@8 webinar on the RSGB YouTube channel: <https://www.youtube.com/live/5eF8ijPNnNQ?feature=share>
5. Read the Node-RED articles in the August and September editions of RadCom: rsgb.org/radcom

A ready-built Node-RED flow is available to download. Go to <https://flows.nodered.org/> and search for 'G4WNC Kasa Mains Plug Dashboard'. Copy the code onto your clipboard and import it to Node-RED.

NB: You will have to update the Kasa node with the IP address of your plug.

Next Steps

Try modifying the flow to add more gauges to show voltages, current and power consumption.



You could even use a Twitter node to raise an alarm if a measurement exceeds a preset level.

You can further expand your application using the flows shared on the Node-RED site <https://flows.nodered.org/>