

Tesla Drive Unit OpenSource Controller Throttle Calibration Procedure

Now to calibrate the throttle pedal so the inverter knows the range to expect.

Power on the inverter 12v supply (no High voltage needed at this point) and connect with WiFi.

The default WiFi settings are :

SSID : inverter

Passphrase : inverter123

Open a Web browser and enter 192.168.1.4 in the address bar and press enter.

Ensure the throttle pedal is properly connected to the inverter using pins 12 (+5V), 13 (signal), and 15 (ground).

With the throttle pedal at zero (ie no pressure on the pedal) scroll down to the "Pot" Spot value on the webpage (make sure to refresh the webpage by pressing F5 or the "refresh" button). Make a note of this value.

Now press the throttle fully and repeat this process, again observing the 'pot' spot value.

Note this value. You now have the two values representing no throttle and full throttle.

Under the 'Throttle' category on the web interface, find the "PotMin" parameter and enter the value you recorded for zero throttle position (it is a good idea to make this value a few points less to allow for noise. So if you recorded 850 then put in 830 for "PotMin"). Don't forget to press enter. Now find "PotMax" and do the same as above but use the full throttle value. Press enter.

Scroll to the top and click the "Save parameters to flash" button.

Turn the 12v power to the inverter off and then on after a few seconds and check the throttle value is now correct.