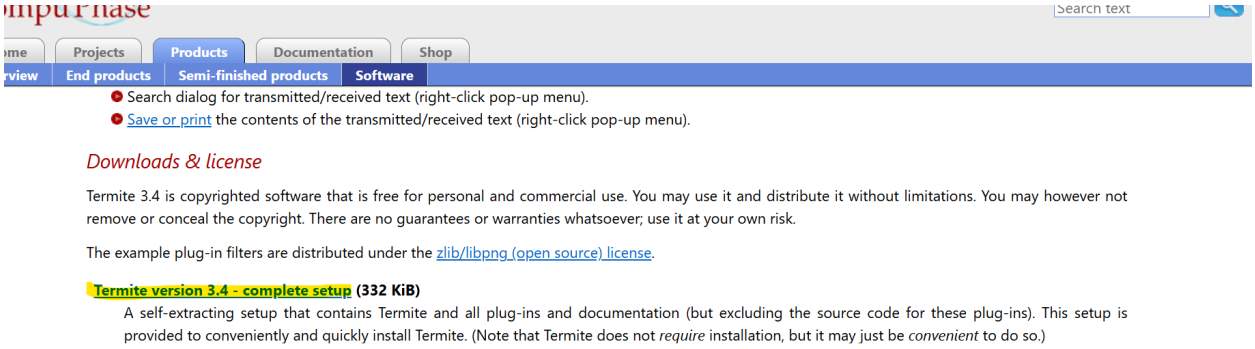
How to install termite and setup

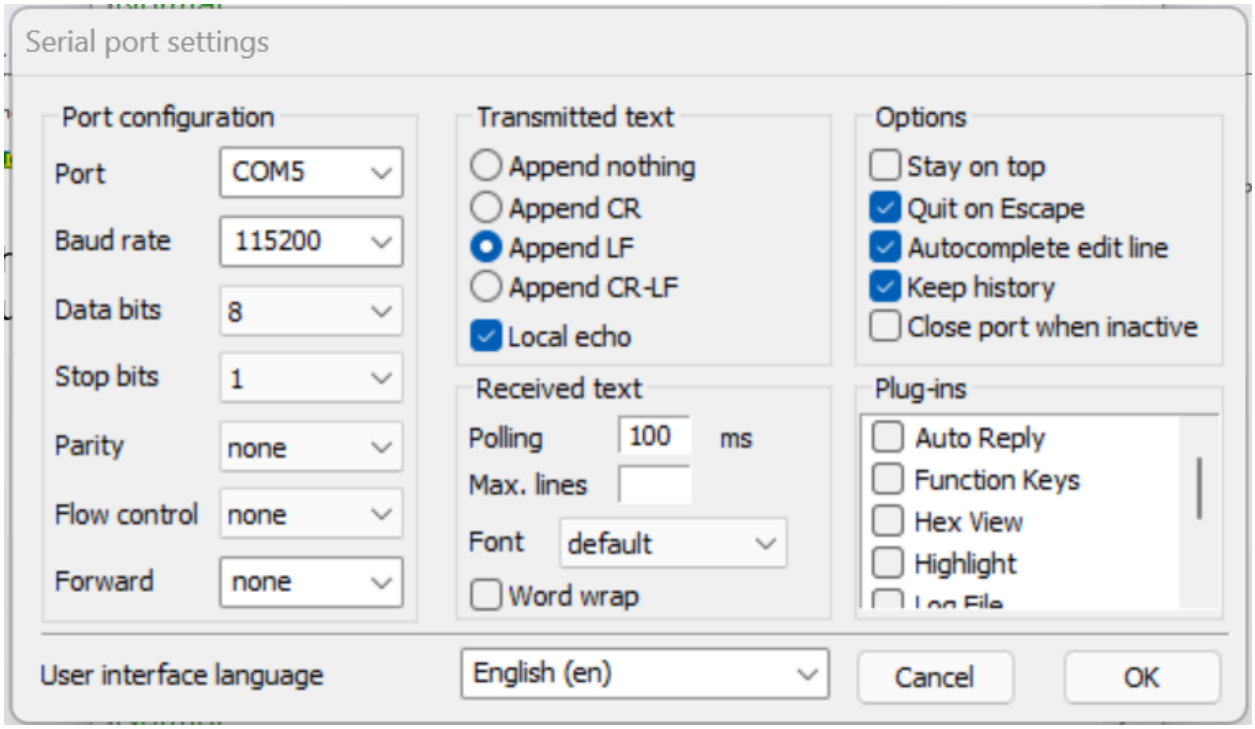
HOW TO INSTALL AND SETUP TERMITE

1. Go to Termite website -[TERMITE LINK]
2. Click the downlink highlighted



Termite Download Link

3. Install the downloaded installer - ***termite-3.4.exe***
4. Upon successful installation open the termite application on PC. Then click settings.Ensure that the setting below is correct , disclaimer every COM is unique per PC,



Termite Settings

5. Once the setting is OK, proceed on knowing where to find the COM port of the device.
6. Click this [LINK] for you to know how to get the device COM port.

How to Config Arcfault device

HOW TO CONFIGURE ARC FAULT DEVICE:

1. Open the termite , plug the device to ensure that the COM port of device is properly determined based on the how to install termite guide.
2. Type SETFFT OFF, to disable the continuous printing of the device.
3. Type HELP , to get all the available commands . It is recommended to adjust only the SETTH parameters.Here are the list of available command.Typing question mark after the equal sign, tells the value of that parameter.

   === Available Commands ===
   SETTH=<value> / ? Set or query threshold (-100 to +100 dB)
   SETSAMP=<value> / ? Set or query sample size (32â€“1024)
   SETFREQ=<Hz> / ? Set or query sampling frequency (1kâ€“50k)
   PRINTFFT=ON/OFF / ? Toggle or query FFT data printing
   LATCHSTATE=ON/OFF / ? Set, clear, or query saved latch state
   GETCONF Show all current settings
   HELP List all commands

4. Set the threshold based on the “LOAD” and the highest value(negative value close to zero) observed on the output or graph. For example, on the setup of the LED bulb , around -40dB is my value I had observed while testing, I set my SETTH=-40.

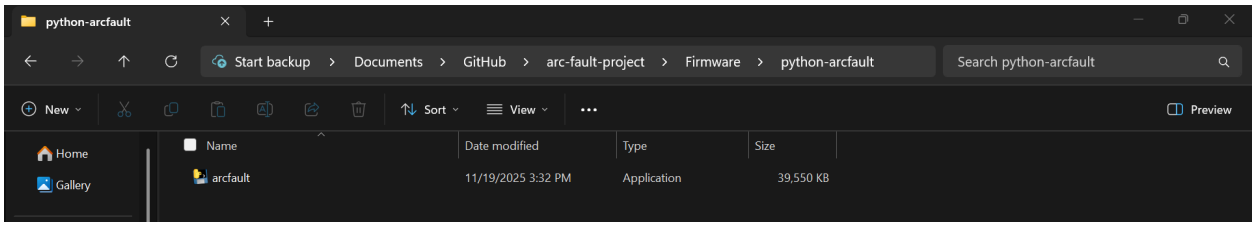
5. You can double check if the value is stored if you attempt to type GETCONF it will all print the setted parameters and you can locate their SETTH value has been updated. Or power cycle the whole device and type the GETCONF on the termite.
6. **Watch the full video tutorial here.**

NOTE: Ensure that only 1 serial monitor is used for example you can only use termite on setting up the threshold value.Then afterwards close it to observe the value of prints on the python software.

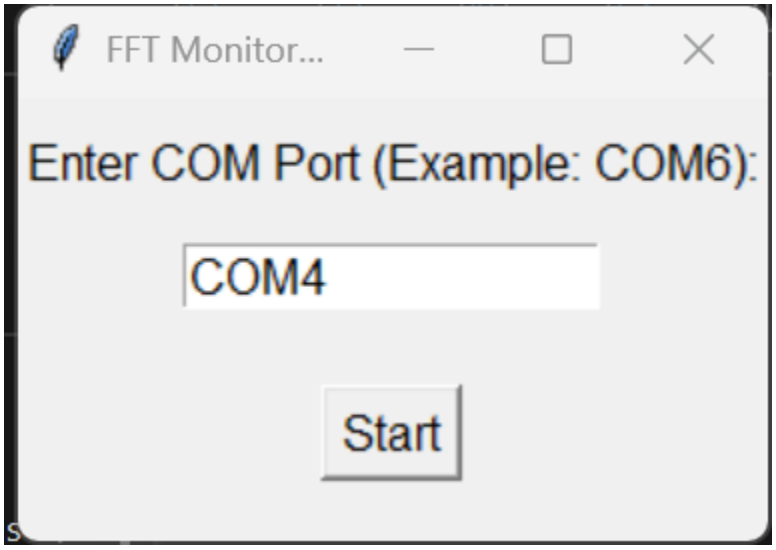
Arc Fault python guide

ARC FAULT PYTHON GUIDE:

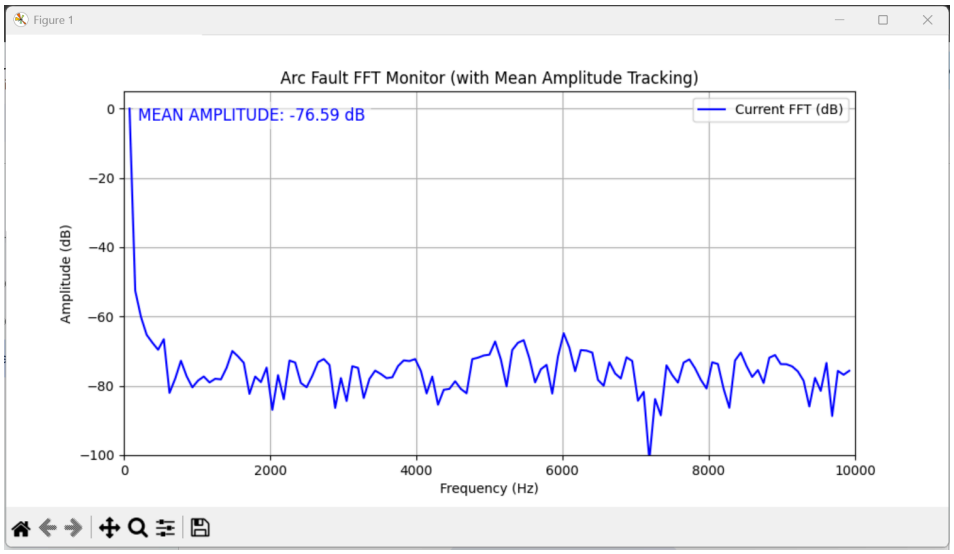
1. Ensure that the **PRINTFFT ON** entered on the configuration before exiting the termite.
2. Open the folder where the arcfault.exe is located:



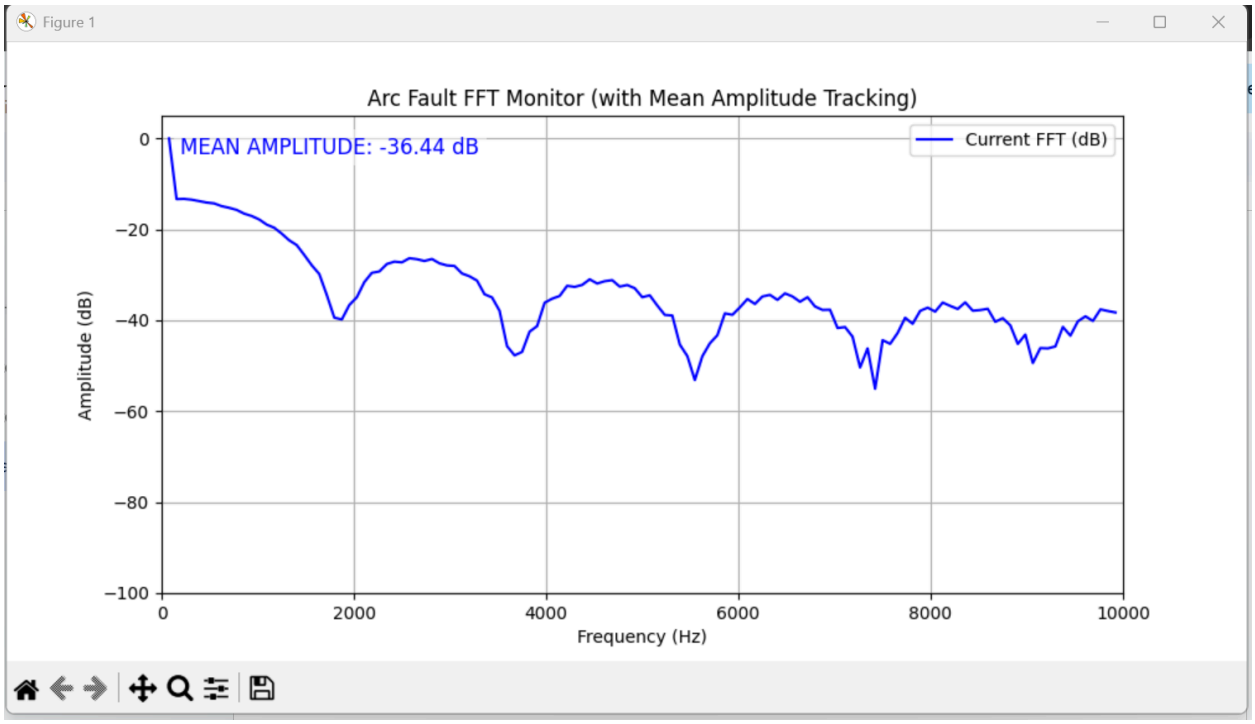
3. Open the arcfault.exe to run the program , type what COM number is the device.Then click Start.



4. The graph window will prompt.The graph will continuously change if no arc fault is detected.

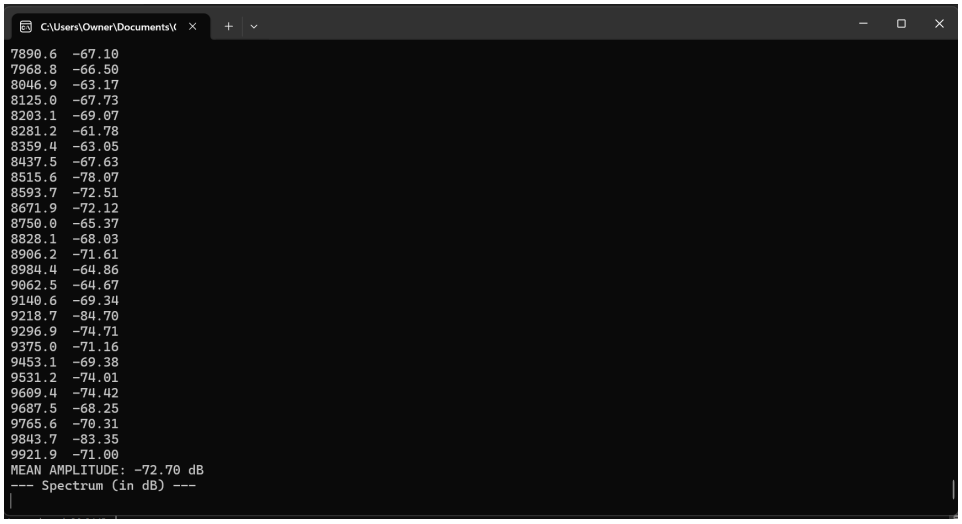


5. If arcfault is detected , the graph will pause exactly the time it detected the fault, and be informed that this happened since the print of data is suspended since arc fault is detected.Take note also that there is a buffer time around 1 second that the arc fault threshold should maintain the reading to categorized is as an ARC FAULT, any reading which reach the threshold but not met the buffer time will acts as a noise.



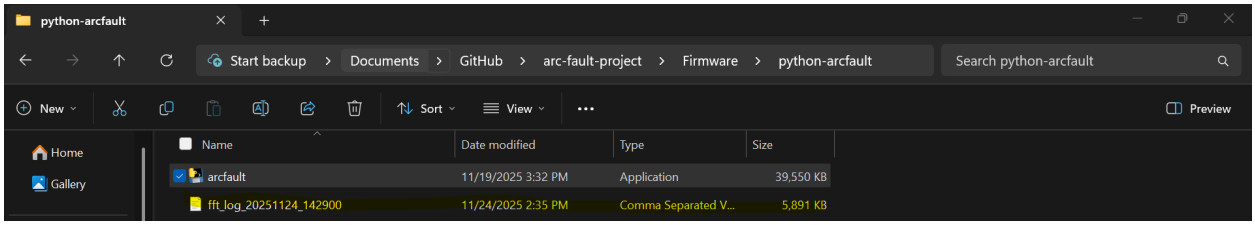
ARC Fault detected at setted threshold of -40dB.

6. Then to resume the reading of the graph, clear the fault by pressing the reset of the device.
7. After you are done checking the graph, close the graph,then click the prompt of the python.Then press on the keyboard CTRL+C to exit the prompt.



Python Prompt

8. All data prints from the start of the run have been stored on the same folder as the arcfault.exe file which is in CSV format which can be imported on spreadsheet.



9. Upon importing the CSV file on the spreadsheet , you can just control F the ARC FAULT.But as you can see since we do parallel processing the print of arc coincide on the sweep after the detection which means the value we take note earlier on the graph is, the data sweep before this.Take note the time as always.

55863	2025-11-24 14:30:58	8203.1	-45.96		
55864	2025-11-24 14:30:58	8281.2	-47.19		
55865	2025-11-24 14:30:58	8359.4	-46.68		
55866	2025-11-24 14:30:58			ARC DETECTE	D latched and saved to EEPRC

ARC DETECTED Save on the CSV.

55753	2025-11-24 14:30:57	9609.4	-39.12		
55754	2025-11-24 14:30:57	9687.5	-40.13		
55755	2025-11-24 14:30:57	9765.6	-37.59		
55756	2025-11-24 14:30:57	9843.7	-37.95		
55757	2025-11-24 14:30:57	9921.9	-38.27		
55758	2025-11-24 14:30:57			-36.44	
55759	2025-11-24 14:30:58	78.1	0		
55760	2025-11-24 14:30:58	156.3	-28.17		
55761	2025-11-24 14:30:58	234.4	-27.3		
55762	2025-11-24 14:30:58	312.5	-28.77		

READED VALUE WHICH TRIGGER THE ARC FAULT.

VIDEO GUIDES:

1. **Arc Fault python guide**
2. **Arc Fault Device Guide with python** ****USE THE CUSTOM USB PROVIDED FOR THIS****
3. **TESTING TIPS PART1**
4. **TESTING TIPS PART2**