**Basic User Guide for Database Plotter**

**Pre-start-up information:**

Epitrend/Database Plotter can cloned from the link:  
<https://AU-Silanna-Semiconductor-Engineering@dev.azure.com/AU-Silanna-Semiconductor-Engineering/MBE%20Process/_git/Epitrend-plotter>

Users can copy the folder “…\Epitrend-plotter\out\build\x64-Release” anywhere they would like and rename it to anything they would like. Inside the “x64\_Release” folder includes the “ImGuiHelloWorld.exe” executable, “config.txt”, and other static libraries. All the files inside “x64\_Release” is necessary to run the executable – the program will not work if the executable is run without the files inside the “x64\_Release” folder.

The program that parses data from the file-server into the InfluxDB Database can cloned from the link:

https://AU-Silanna-Semiconductor-Engineering@dev.azure.com/AU-Silanna-Semiconductor-Engineering/MBE%20Process/\_git/Epitrend

This script requires it to be run via the linux “make” command. Therefore, if users wish to run this on their own computer, they must enable WSL on their machine, and install Ubuntu for windows.

The program will be released as an executable that be run from any Windows 10/11 computer. Before starting the executable, the user must create a config.txt file inside the same directory as the executable. The config.txt file should contain the following (users can copy-paste this into the file):

DATA\_DIR=data/

OUTPUT\_DIR=output/

SERVER\_EPITREND\_DATA\_DIR=/mnt/y/BNE-MollyData/EpiTrend/

SERVER\_RGA\_DATA\_DIR=/mnt/y/BNE-Characterisation/In-situ\_MBE/Inficon RGA/MBE1/

ORG=au-mbe-eng

HOST=10.20.50.81

PORT=8086

RGA\_BUCKET=ALL

EPITREND\_BUCKET=ALL

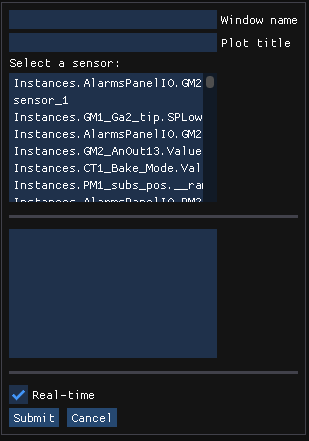
USER=

PASSWORD=

PRECISION=ms

TOKEN=142ce8c4d871f807e6f8c3c264afcb5588d7c82ecaad305d8fde09f3f5dec642

**Adding a new plot:**



All plots are created inside windows. To create a new plot inside a window, press the “Add new plot” button and enter the desired window and plot name. To avoid unwanted bugs, users should ensure that the window and plot names are not empty.

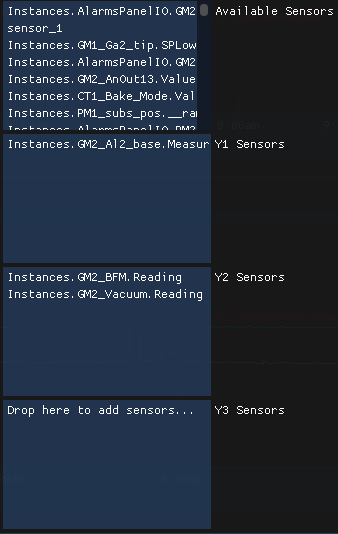
**Configuring the plot and plotline properties:**

Users can change the x-axis time domain, via a calendar, by right-clicking on the x-axis and hovering above “Min Time” and “Max Time”:

A screenshot of a calendar

AI-generated content may be incorrect.

Users can switch between real-time plotting and historical plotting by checking the “Real-time (AEST)” box.

To add sensors to a plot, press “Options” and drag-and-drop sensors from the “Available Sensors” box into the one of the “YX Sensors “ boxes.

To configure the Y-axis properties, press “Options” and configure the Y-axis from within one of the “YX Axis Properties” drop-downs.

A screenshot of a computer

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To configure a plotline property, press “Options”, choose the desired sensor under the “Available Sensors“ drop-down menu, and choose the desired plotline color and plotline marker properties.

A screen shot of a computer

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A screenshot of a computer

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**Saving and Loading:**

To save a window with plots, navigate to “File”->”Save Window As…”, enter a directory (or choose a directory via the file dialog) and press “Save to Folder”.

A screen shot of a computer

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To load a window with plots, click “Load Window” and navigate to the window (.json) file using the file dialog.

A screenshot of a computer

AI-generated content may be incorrect.

FAQs:

Q: Why doesn’t the plotted data look up-to-date? / Historical data looks fine but there is no newer data

A: The program reads from the InfluxDB Database that is hosted on the SC-SB-EngDB02 server. Users must ensure that the script that is updating the InfluxDB Database is running. The computer that

Q: Why is some part of the program is stuck/broken, despite working fine just a second ago?

A: Try restarting the program, and try again. If the problem persists, please report the bug.

Q: Why does the program open immediately with an error? / Why does the program refuse to open?

A: The program will refuse to open (or will give an error immediately upon opening), when it cannot establish a connection to the InfluxDB Server, Ensure the InfluxDB Database is running correctly and that the config.txt contains the correct host and port, and contains a valid token.