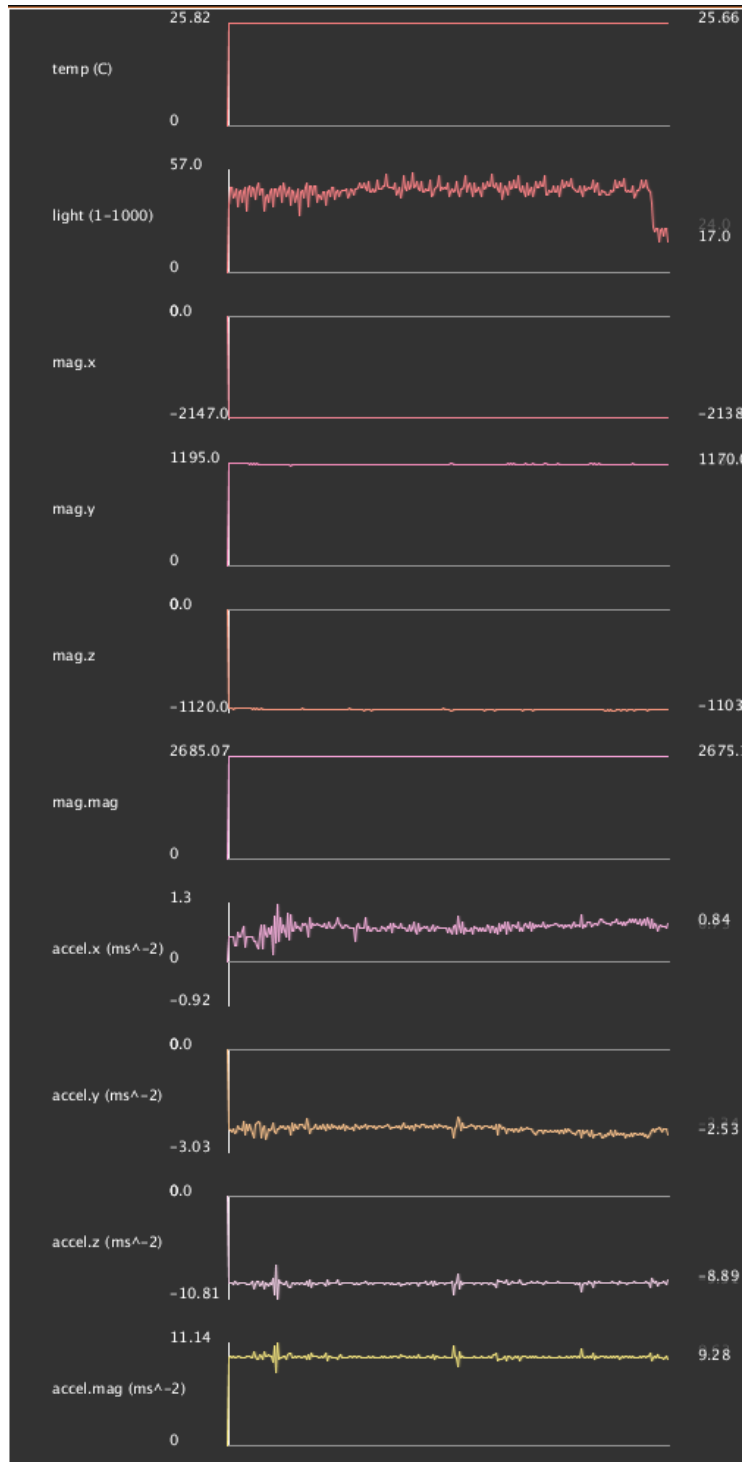## Description

The program reads values from the Engduino's array of sensors and displays a suite of real time graphs that display the values from the Engduino as it records them as well as storing the minimum and maximum values that have been recorded in the current run and using it to scale the graph.

Installation and Usage

- Installation
    - Install the arduino and processing IDEs
    - Set up the arduino IDE to work with an Engduino by installing the Engduino plugin
    - Open `Engduino/final` in the arduino IDE
    - Upload the sketch to the arduino IDE
    - Open `Engduino/engduino_viewer` in the processing IDE
    - Run the sketch
- Usage
    - Select the serial port that your Engduino is attached to and click OK
    - The graphs should start plotting
- Troubleshooting
    - Generic Checklist
        * Is the Engduino turned on, did it flash blue and red as it started up?
        * Is the ready and working light on?
        * Is it plugged in to the correct USB port.
    - If the Engduino does not flash red and blue or display the on light check that the Engduino does not have any faults and that you have uploaded the code to the correct remote device.
    - If the program stays light grey and does not display a graph and the processing IDE has an error, then you did not pick the correct serial port.

Screenshots

Notes about the OpenSCAD file

The source blender file and .stl are also included and it might need to be split up or rotated to be 3d printed on a standard 3d printer.