

Easyweather_viewer user's guide

The WH-1080 weather station is sold under different brand names, depending on the distributor. In Scandinavia it is sold by the Clas Ohlson chain. The accompanying PC software lets the user save historical data to a file. The easyweather_viewer can read this file and display the recorded data as graphs.

Saving the weather history file:

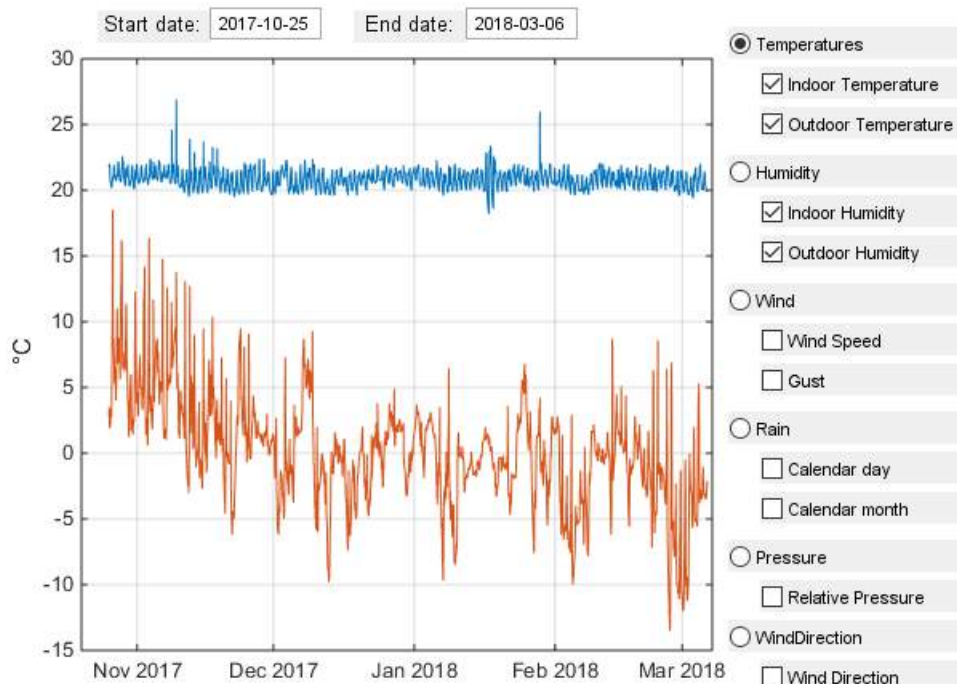
- Make sure that the Easyweather program is installed on your computer. The program is on the DVD distributed with your WH-1080
- Connect the WH-1080 touch screen panel to the computer using a suitable USB cable.
- Start the Easyweather program and verify that “live” data are displayed.
- Click the “Record” menu item and select “History”.
- Specify start and end times. If the start date is set to a date before the oldest data stored in the panel, all available records will be found.
- Click “Search”. The screen will fill with data.
- Click “Export” and specify a suitable file name in the dialogue.

Using easyweather_viewer.

This is straight-forward.: In the Matlab command window type:

```
easyweather_viewer(<filename>)
```

<filename> is the name of the file you specified above. Include the path if it is not in the current folder.



If all goes well, you will see a Graphical User Interface, as shown above, but with no graphs. Selecting a check box will display a graph of the corresponding variable. The colour of the first variable in a group is always blue. The second colour may depend on your Matlab version.

You may specify the time interval by changing the start and end dates, or you may use the zoom tools.

You may stretch the figure to get better resolution. The GUI will respond “intelligently” to resizing.

Software versions

Easyweather_viewer has been tested on Matlab versions 2012b and 2014b . I have used it on and files from Easyweather software versions bought in 2008 and 2016. The latter is version 8.0 from 2013. I do not know the version number of the older files. The old files are plain ASCII, while the newer are written in Unicode (UTF-16LE). Also, the ordering of the variables differs.

Access to data

If you would like to work with the data yourself, you can use the function **read_easyweather**.

The syntax is:

```
[t,data,headers,units,rbstrings,rbvars] = read_easyweather(file)
```

See the help text for details.

Acknowledgement

I use textscan.m by Vlad Atanasiu to read the Unicode file format. The file is available at The Matworks File Exchange at:

<https://www.mathworks.com/matlabcentral/fileexchange/18956-read-unicode-files>

For convenience, the file is included in the distribution zip file for the Easyweather viewer.