# How to create the autoISF factors plot from the CSV file

Translated with DeepL

As the first step of the help for creating the plots of acce_ISF & Co I created an example, which you can use as a template. It saves me the repeated, tedious defining of the plots by simply overwriting the value table from the template with the new values. Then I only need to adjust the scaling of the time axes.

The procedure is:

1. to be on the safe side, save the original template somewhere as a master/backup.
2. read the CSV file from the emulator run into an empty spreadsheet document. Note that column "B" is not imported as text but as time/date. With LibreOffice it helped to mark the format of the 2nd column as "US English". Generally COMMA is used here as decimal point, i.e. it does not work directly everywhere in the world at the first attempt.
3. in the template, delete or insert as many rows in the middle row area of the table until the number of rows exactly matches the number of rows in the CSV file you just imported. The first and last rows of the template must not be touched, because they define the value range for the plots. So leave contents of lines 1-4 and original lines 101-104 of the template intact.
4. select the actual rows from the imported CSV sheet (i.e. without the 3 header rows but including the last 3 totals rows) and load them into the copy-paste buffer.
5. In the template, go to cell "A4" and paste the new rows there. Use *Paste Special* and do not overwrite the original formatting.
6. change the sheet name of the template to the name that suits you.
7. finally, adjust the timel scales of the plots. This concerns min and max values as well as the increment, e.g. 00:55/00:10/00:15/00:30 minutes depending on the case.
8. a special case is when the time window passes midnight like in the template. There the emulator had to add 24 hours to the time in column "B" from midnight. So, for example, 04:20 becomes 28:20 internally, but is still displayed as 04:20.
9. for the plot of IOB/iobTH/... you have to enter your values in the sheet "graphs" in the cells "R54:R57" or "T54:T57".
10. save the workbook under a new name.
11. close the file with the imported CSV file without saving.

If you have any suggestions for more plots, please let me know.

Status: 24.March 2023 @ 18:42