Victron Eastron SDM630 Bridge

This small program emulates the Energy Meter in a Victron ESS System. It reads values from an existing MQTT Brokder (in my case MBMD) and publishes the result on dbus as if it were the SDM630 meter.
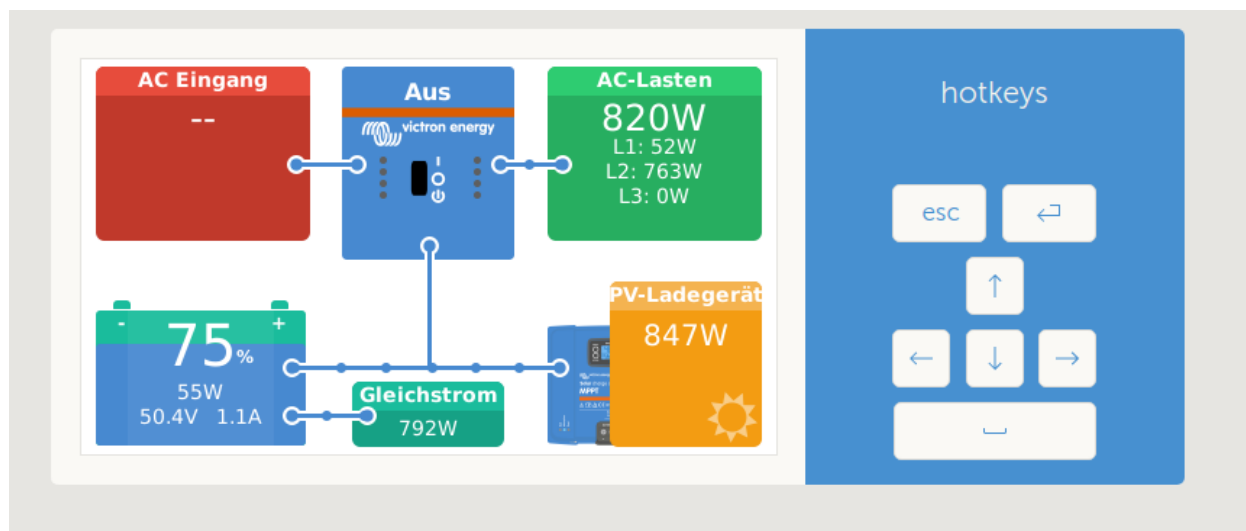

Abbildung 1: Victron Overview

Use this at your own risk, I have no association with Victron or Eastron and am providing this for anyone who already has these components and wants to play around with this.

I use this privately, and it works in my timezone, your results may vary.

Special Thanks to Sean (mitchese) who did most of the work for the shm-et340. Mostly of the code is forked from his repo. You can find here: Repo

Setup

Compiling from source

To compile this for the Venus GX (an Arm 7 processor), you can easily cross-compile with the following:

```
`GOOS=linux GOARCH=arm GOARM=7 go build`
```

You can compile it also with makeFile

```
make compile
```

Victron Grid Meter Values

Source Victron

```
com.victronenergy.grid

/Ac/Energy/Forward      <- kWh  - bought energy (total of all phases)
/Ac/Energy/Reverse      <- kWh  - sold energy (total of all phases)
/Ac/Power               <- W    - total of all phases, real power

/Ac/Current             <- A AC - Deprecated
/Ac/Voltage             <- V AC - Deprecated

/Ac/L1/Current          <- A AC
/Ac/L1/Energy/Forward   <- kWh  - bought
/Ac/L1/Energy/Reverse   <- kWh  - sold
/Ac/L1/Power            <- W, real power
/Ac/L1/Voltage          <- V AC
/Ac/L2/*                <- same as L1
/Ac/L3/*                <- same as L1
/DeviceType
/ErrorCode
```