Victron Global Remote
Victron Ethernet Remote

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- Detailed connection schematics
- Examples of Text messages (SMS)
- vrm.victronenergy.com: free online portal
- Configuring GPRS
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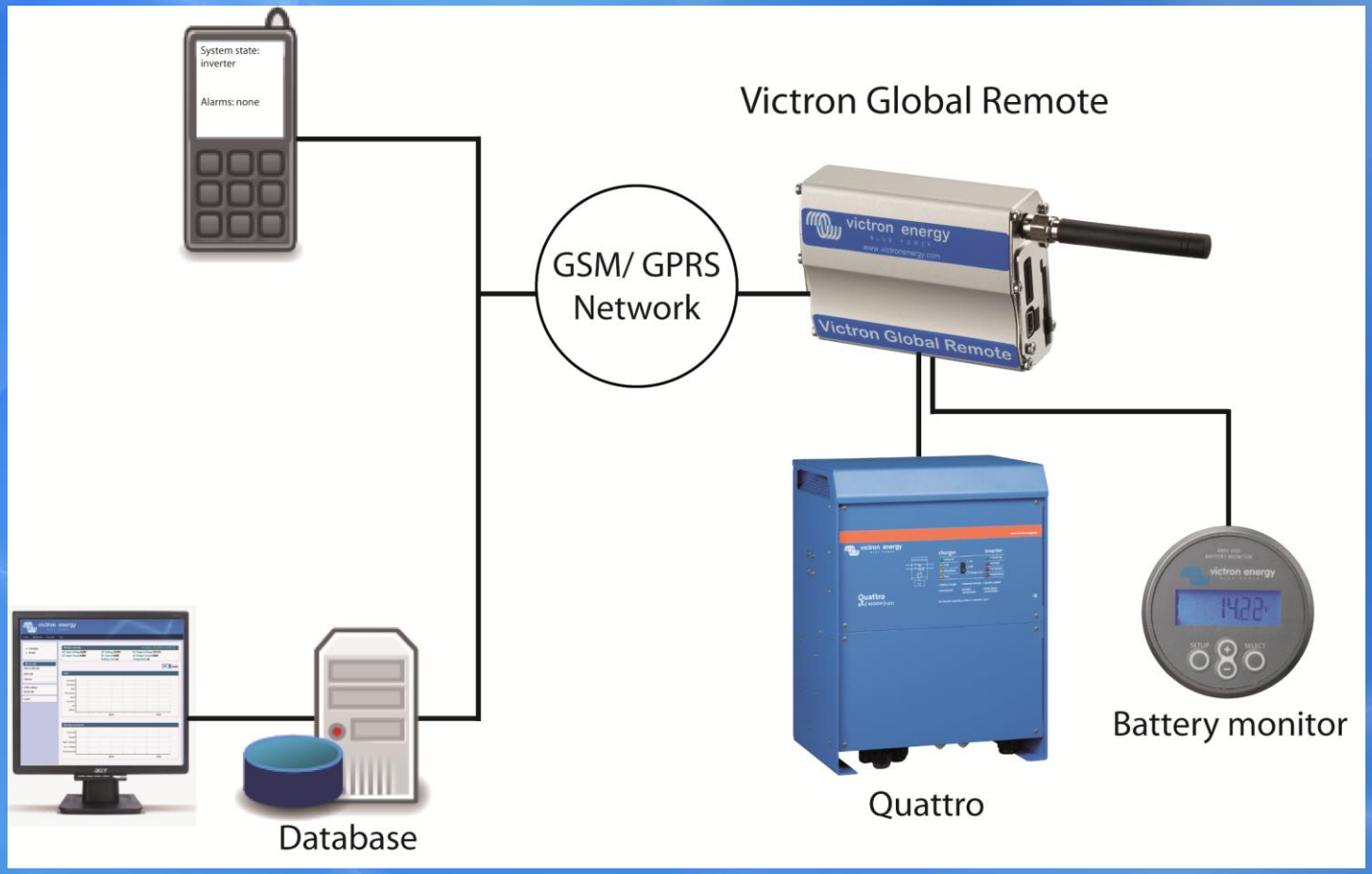
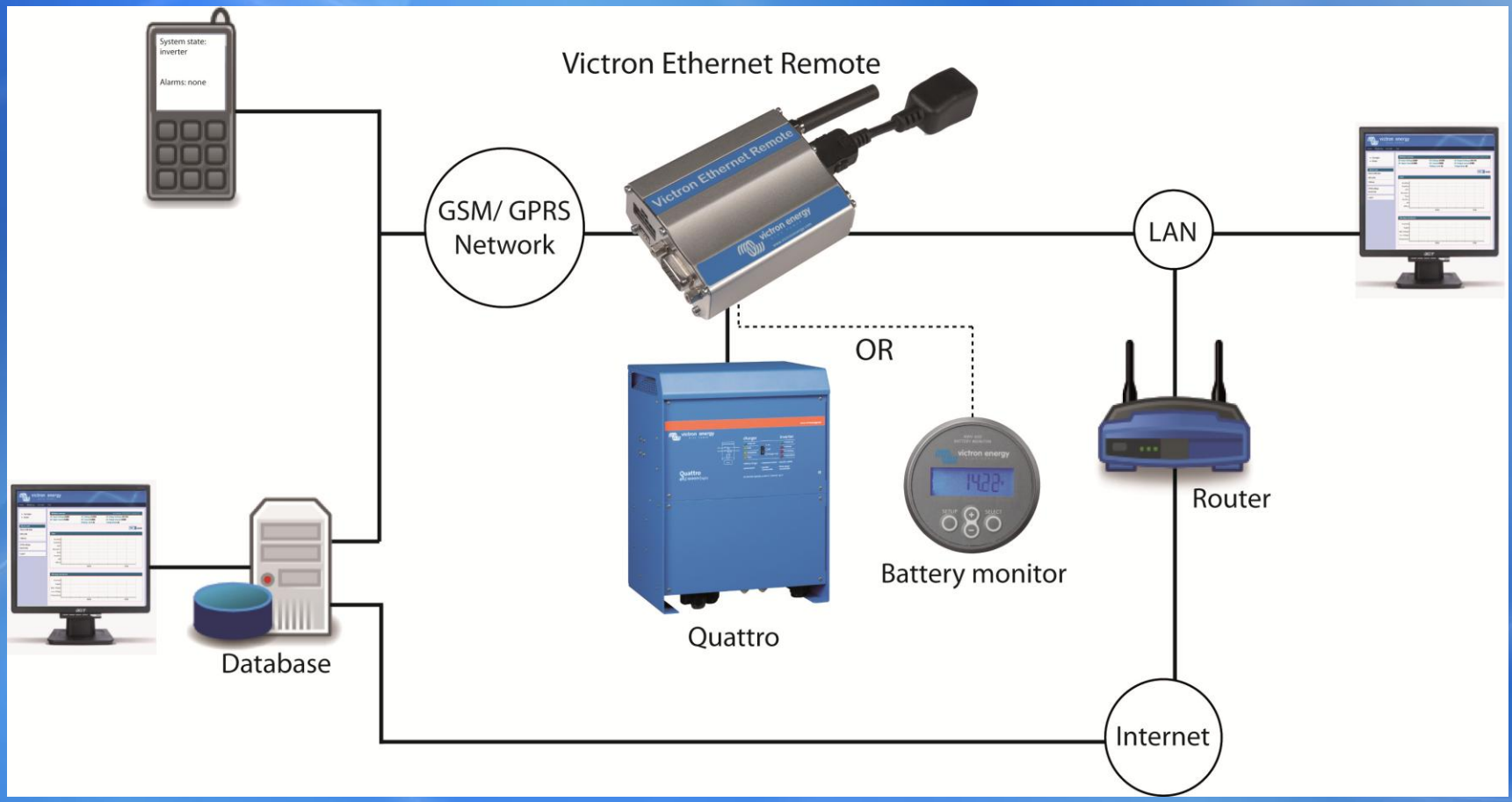
Overview - Victron Global Remote



Overview - Victron Ethernet Remote

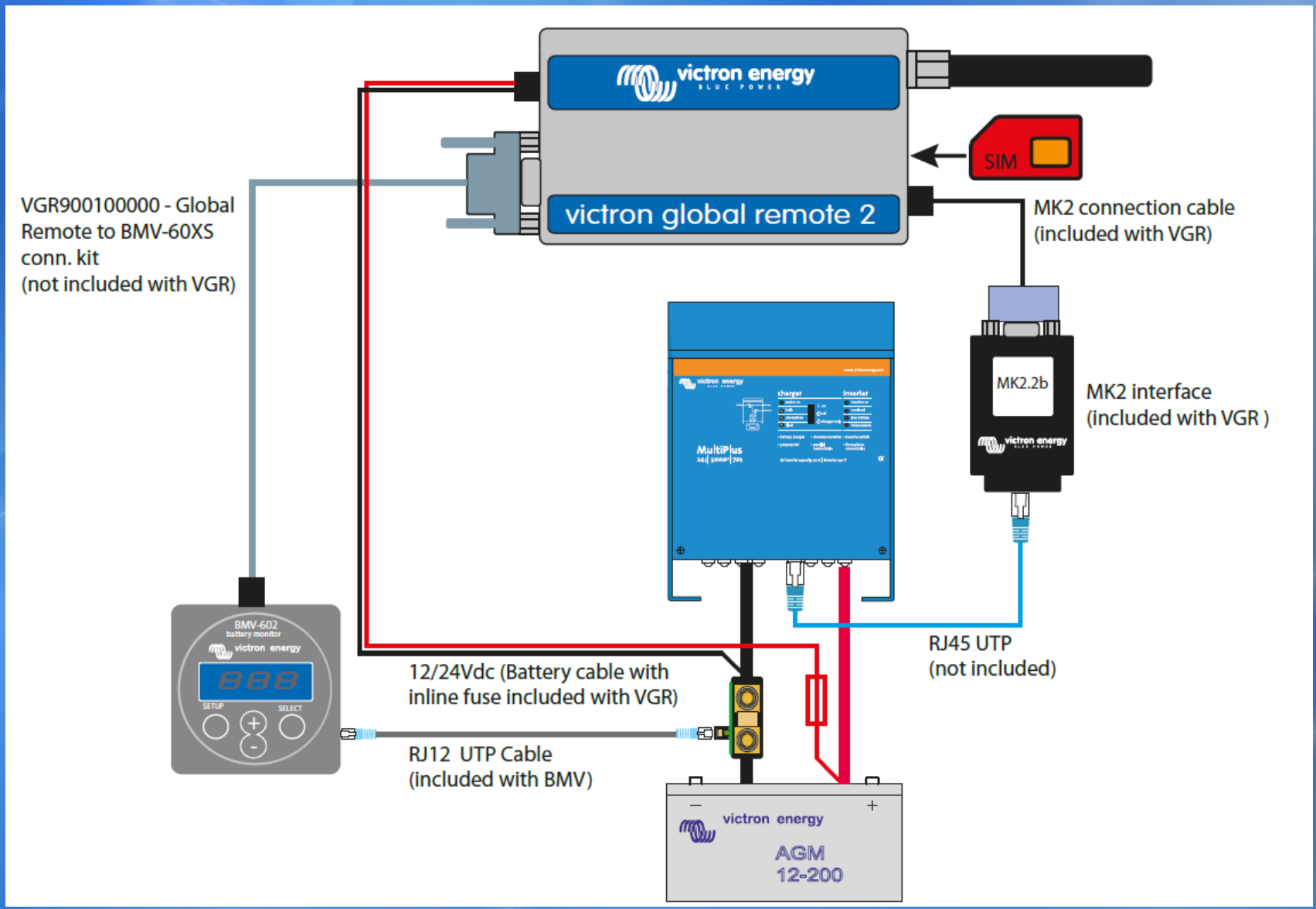


System schematics

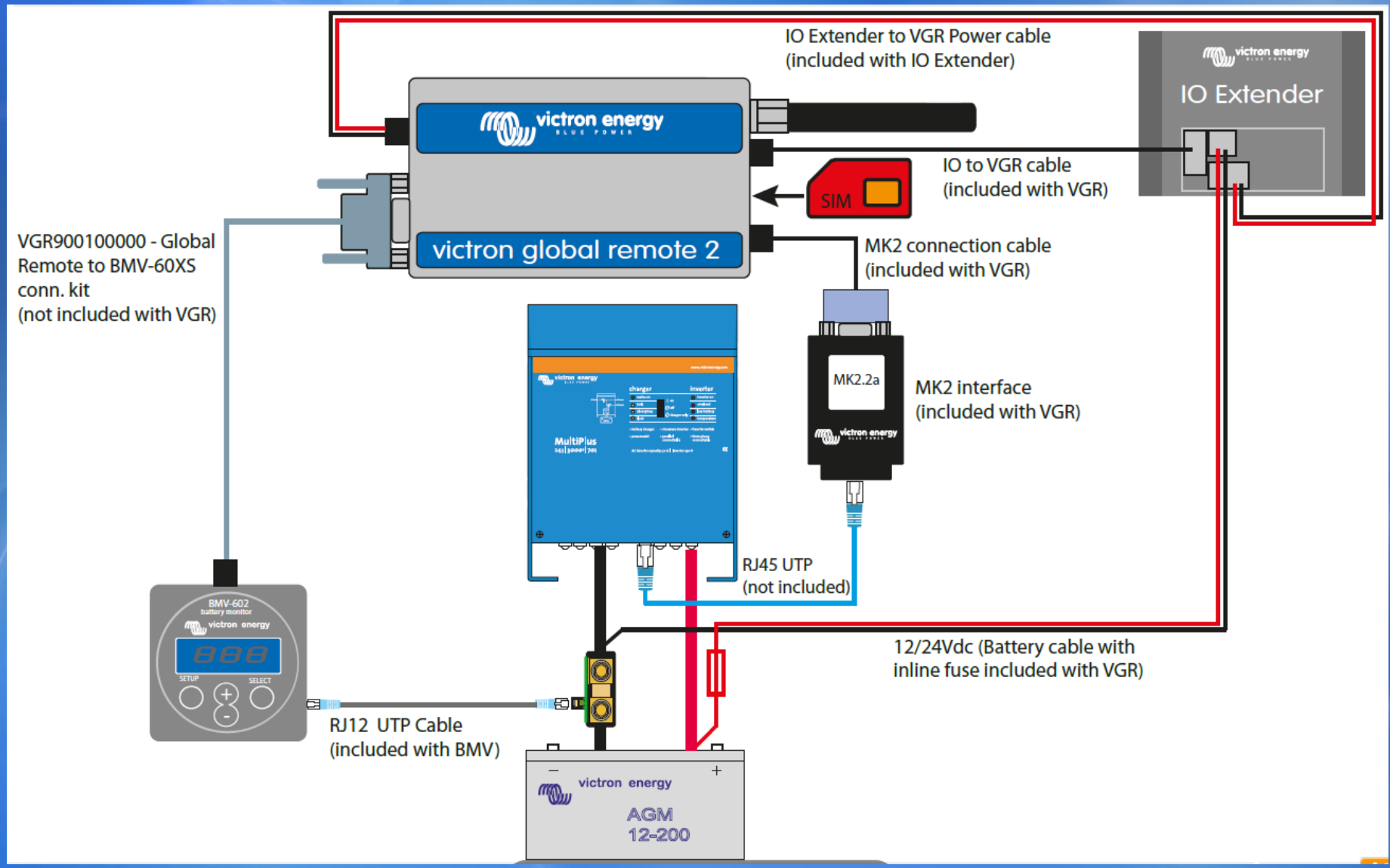
There are four main different configurations possible:

- VGR with BMV and/or VE.Bus
- VGR with BMV and/or VE.Bus and IO Extender
- VER with BMV
- VER with VE.Bus

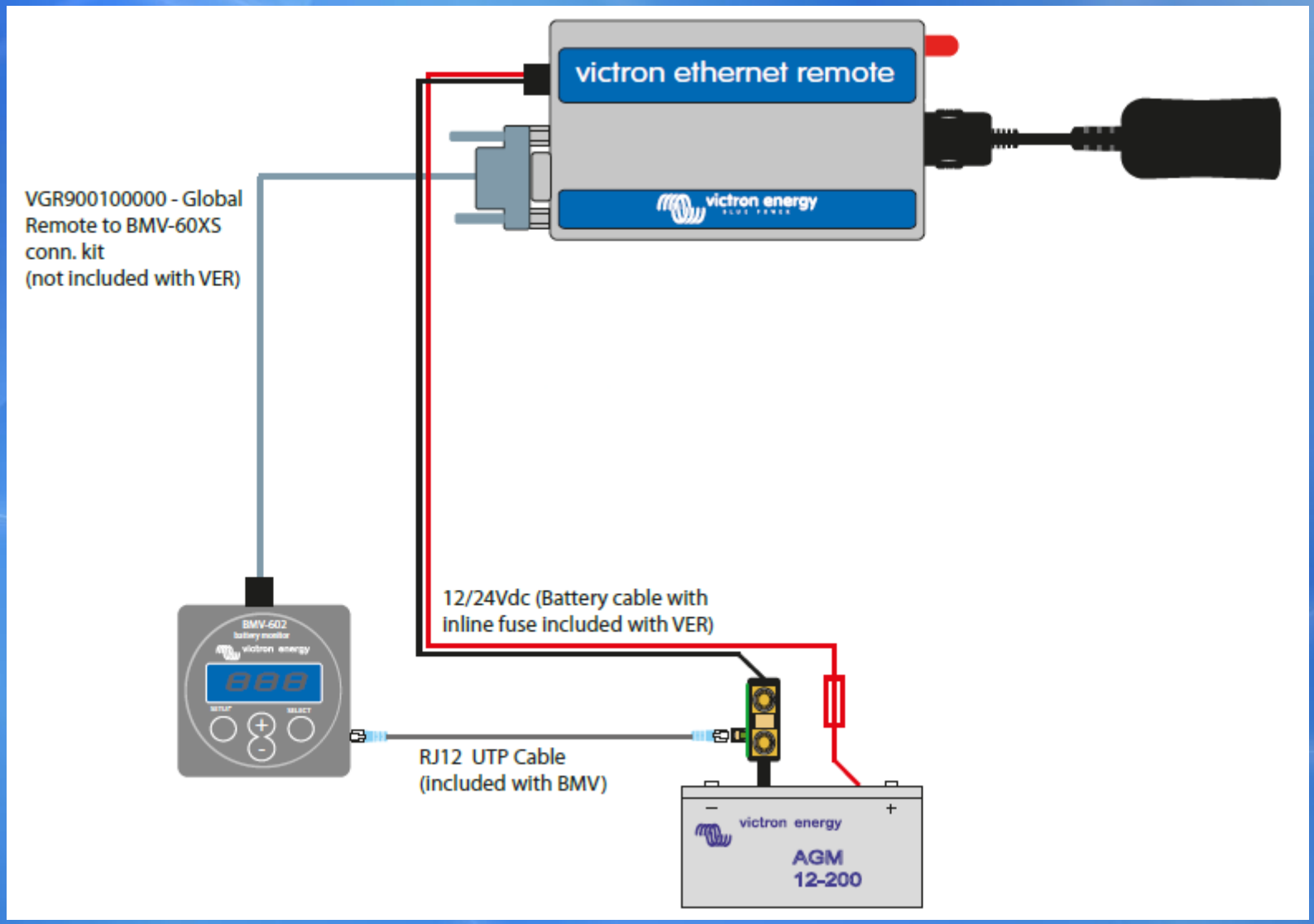
VGR with BMV and/or VE.Bus



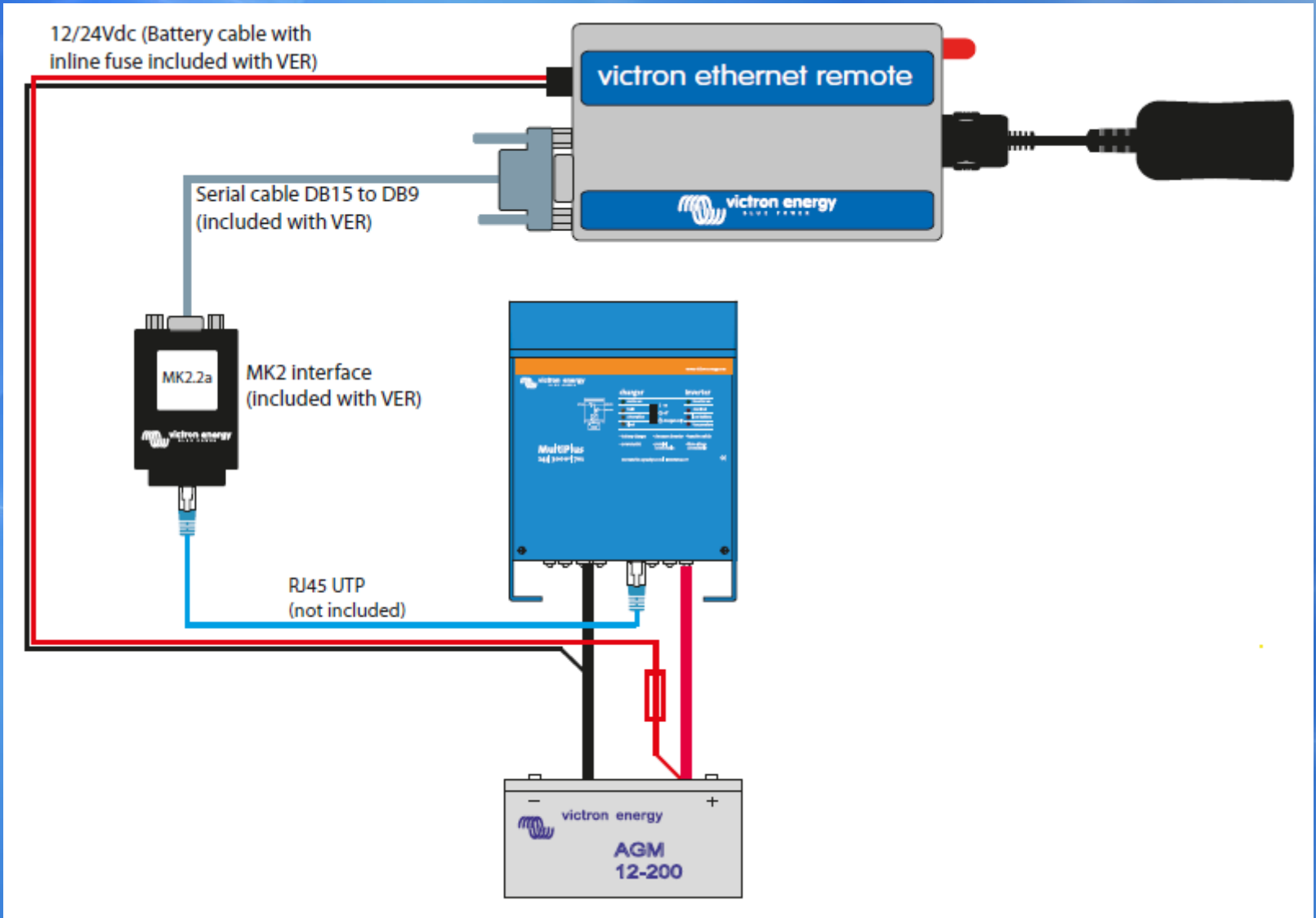
VGR with BMV and/or VE.Bus and IO Ext.



VER with BMV


victron ethernet remote
victron energy
VGR900100000 - Global
Remote to BMV-60XS
conn. kit
(not included with VER)
12/24Vdc (Battery cable with
inline fuse included with VER)
RJ12 UTP Cable
(included with BMV)
BMV-602
victron energy
AGM
12-200

VER with VE.Bus



Text messaging

Send message to VGR:

info

Reply message:

System state: inverter
Alarms: none
Warnings: none
DC: 48.97V 16.71A in
AC in: 0.0V 0.0A 0.0Hz
AC out: 229.9V 3.8A 60Hz

Battery: 26.6V, -017A
Level: 98%, -8Ah
TTG: 240h

Information from Multi

Information from BMV

Text messaging – IO Extender

Send message to VGR:

io

Showing the IO Extender status

Reply message:

IO
OUT1: open
OUT2: open
IN1: open
IN2: open
IN3: closed
Temperature: 39C/102F

Text messaging – IO Extender

Send message to VGR:

output 1 closed

Closing one of the two contacts.
To start, for example, a generator.

Reply message:

IO
OUT1: open
OUT2: closed
IN1: open
IN2: open
IN3: closed
Temperature: 39C/102F

Text messaging – gsm network status

Send message to VGR:

gsm

60dB is full signal
113dB is no signal

Reply message:

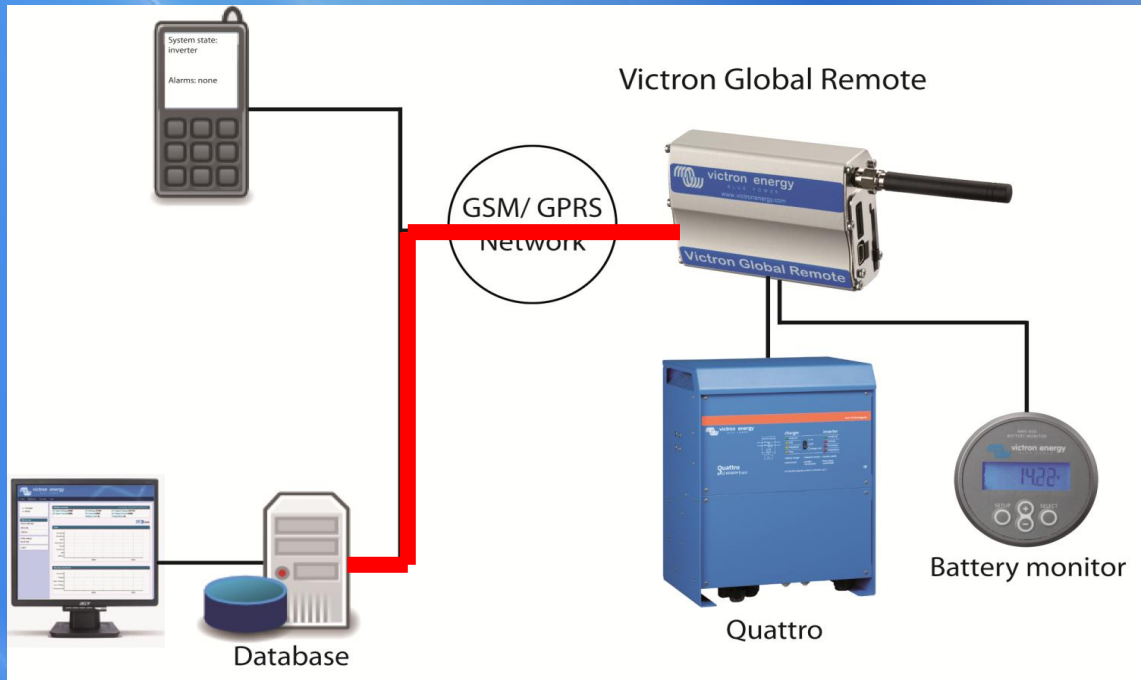
GSM
imei: 354662030005820
sim: OK
signal: -67dB
ber: 0
network: home (Vodafone ES)
SMS from: +31646077489

Online portal

The Victron Global Remote can log information to our online portal.

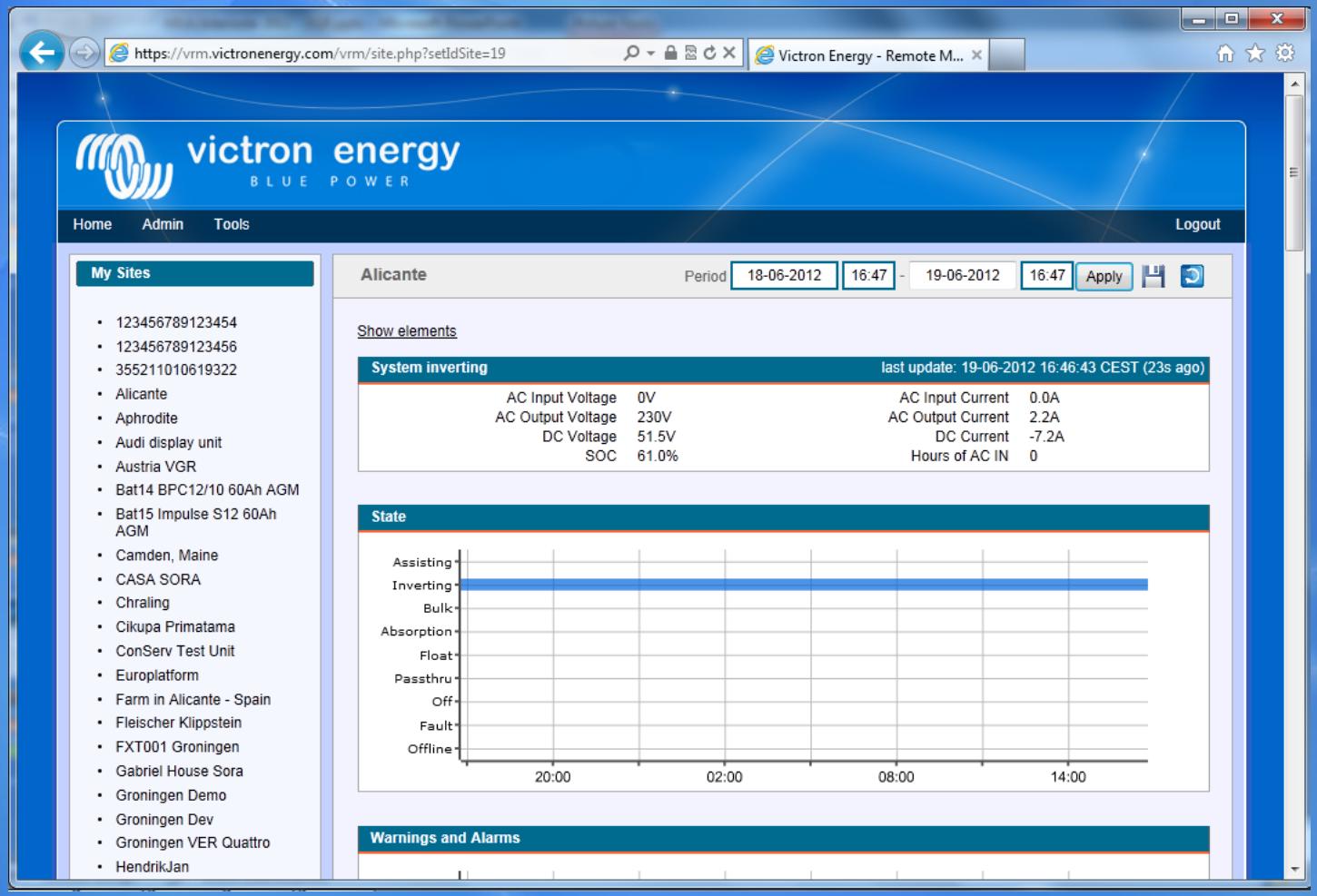
Necessary: a working internet connection:

- Victron Global Remote: GPRS
- Victron Ethernet Remote: Ethernet / LAN



Online portal

https://vrm.victronenergy.com
Demo account: demo@victronenergy.com / vrmdemo



Online portal: GPRS

Victron Global Remote2: A GPRS Connection is necessary to send the information to the online database.

Victron Ethernet Remote: It will send the information via the LAN. The LAN needs to have internet access.

Get the GPRS status:

gprs

Reply message:

GPRS
user: vodafone
pass: vodafone
apn: office.vodafone.nl
state: connected
ip: 109.32.239.49

Necessary to log information to the website

Online portal: GPRS configuration

To configure GPRS, you need the following information from your telecom provider:

APN	Required
Username	Optional
Password	Optional
Proxy address and port	Optional

To find this information, you can also search Google. For example search for “GPRS Vodafone APN”. After looking around you will find the following information:

APN:	live.vodafone.com
Username:	vodafone
Password:	vodafone

Online portal: GPRS Configuration

Configuration with APN only:

```
gprs apn live.vodafone.com on
```

Reply message:

```
GPRS
user: username
pass: password
apn: live.vodafone.com
state: connected
ip: 109.32.239.49
```

Configuration with APN and user

```
gprs apn live.vodafone.com user
vodafone pass vodafone on
```

Reply message:

```
GPRS
user: vodafone
pass: vodafone
apn: live.vodafone.com
state: connected
ip: 109.32.239.49
```

Online portal: GPRS Configuration

Some providers also use a proxy. One example is KPN in the Netherlands.

Configuration with proxy:

```
gprs apn portalmmm.nl proxy
10.10.100.20 port 5080 on
```

Reply message:

```
GPRS
user: username
pass: password
apn: portalmmm.nl
proxy: 10.10.100.20
port: 5080
state: connected
ip: 109.32.239.49
```

To remove the proxy configuration:

```
gprs proxy #
```

```
GPRS
user: username
pass: password
apn: portalmmm.nl
state: connecting
```

Online portal: log interval

Send message to VGR:

log

Log interval configuration. And info when the last data was pushed to the database (https://vrm.victronenergy.com)

Very useful to check of the gprs connection is OK!

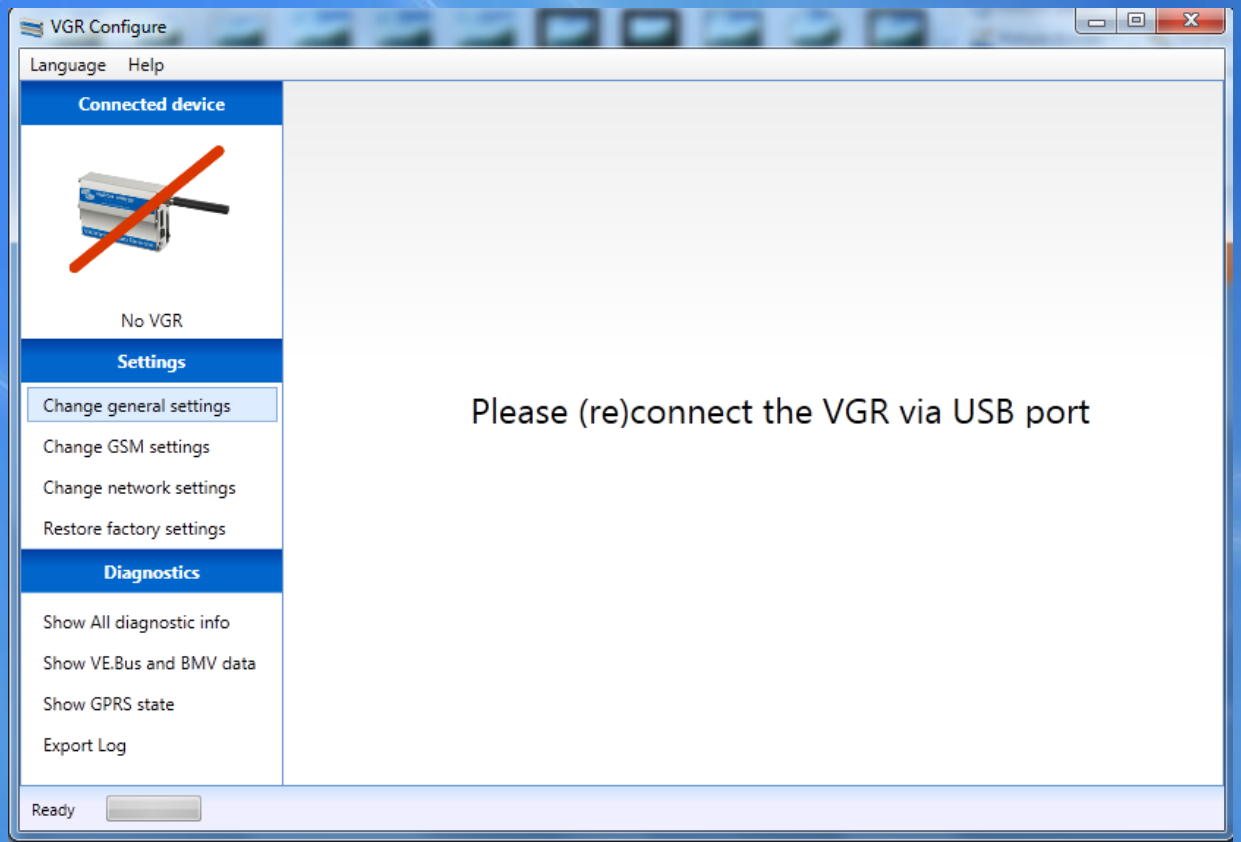
Reply message:

LOG
Period: 5min
Extra: off
Last log: 1 minutes 3 seconds ago

VGR Configure software

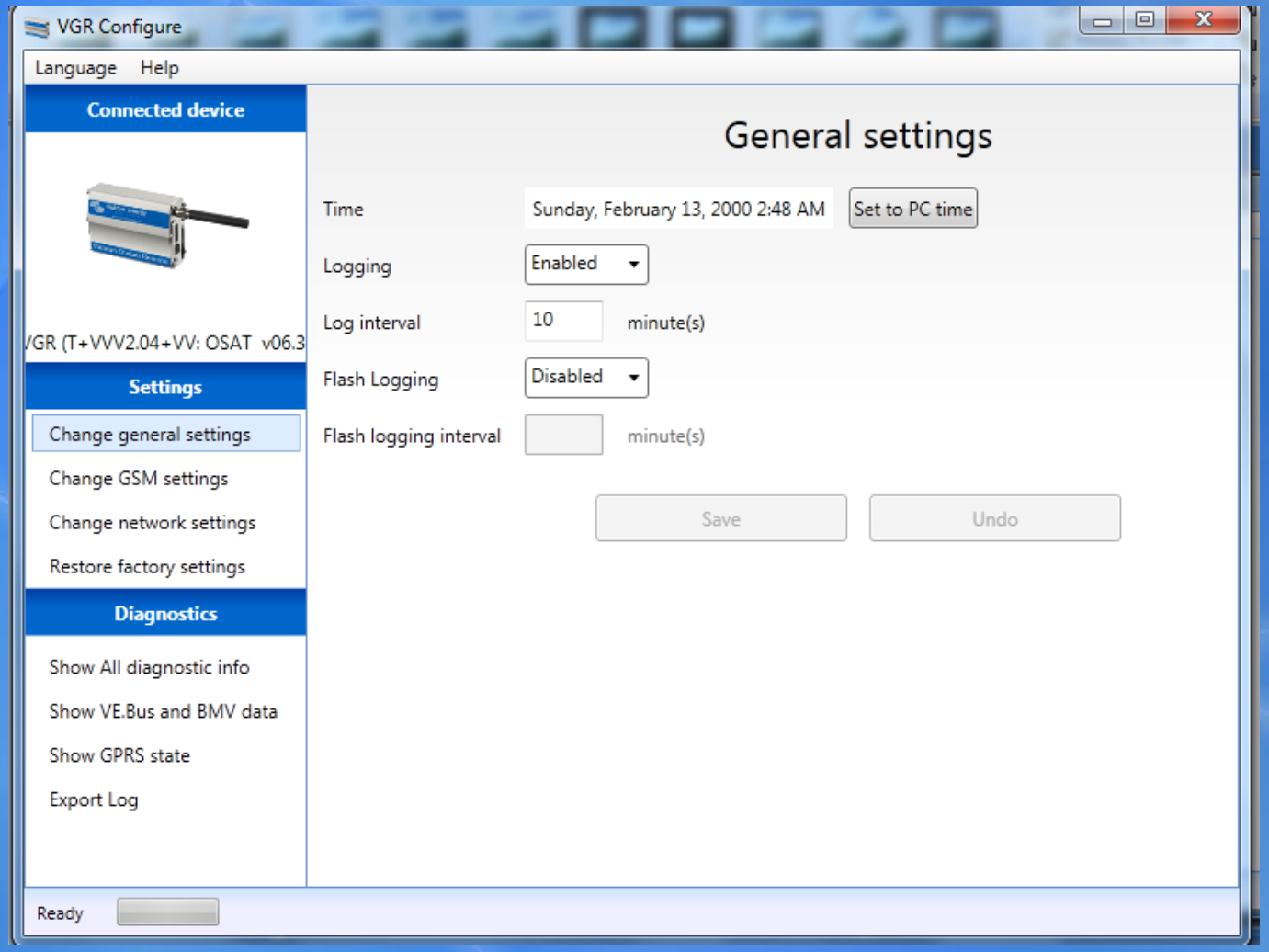
-Necessary to configure Victron Ethernet Remote, since you cannot send text messages to it, unless you put a sim-card in the Ethernet Remote.

-Available for download on our website



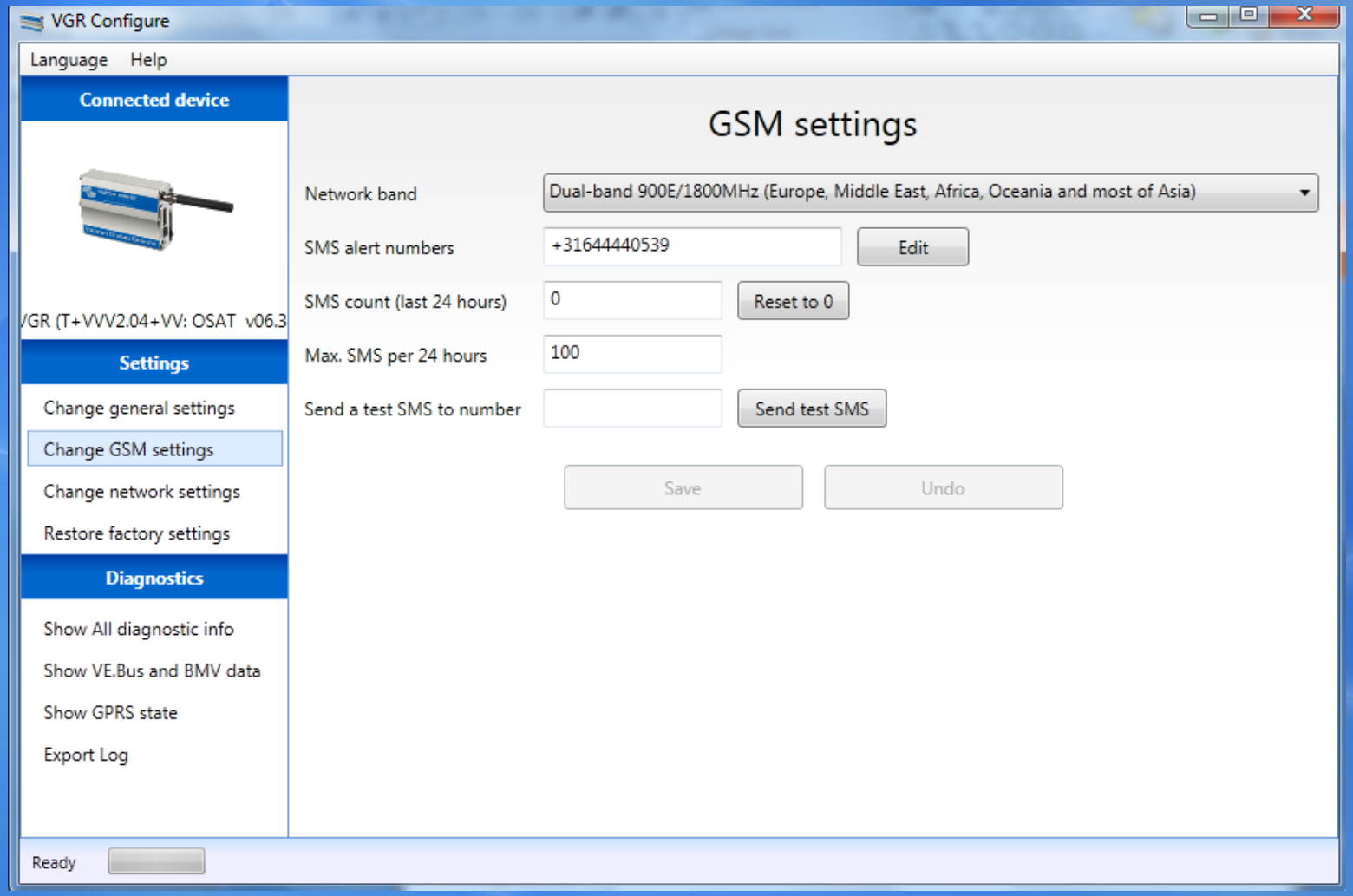
VGR Configure software

General Settings:



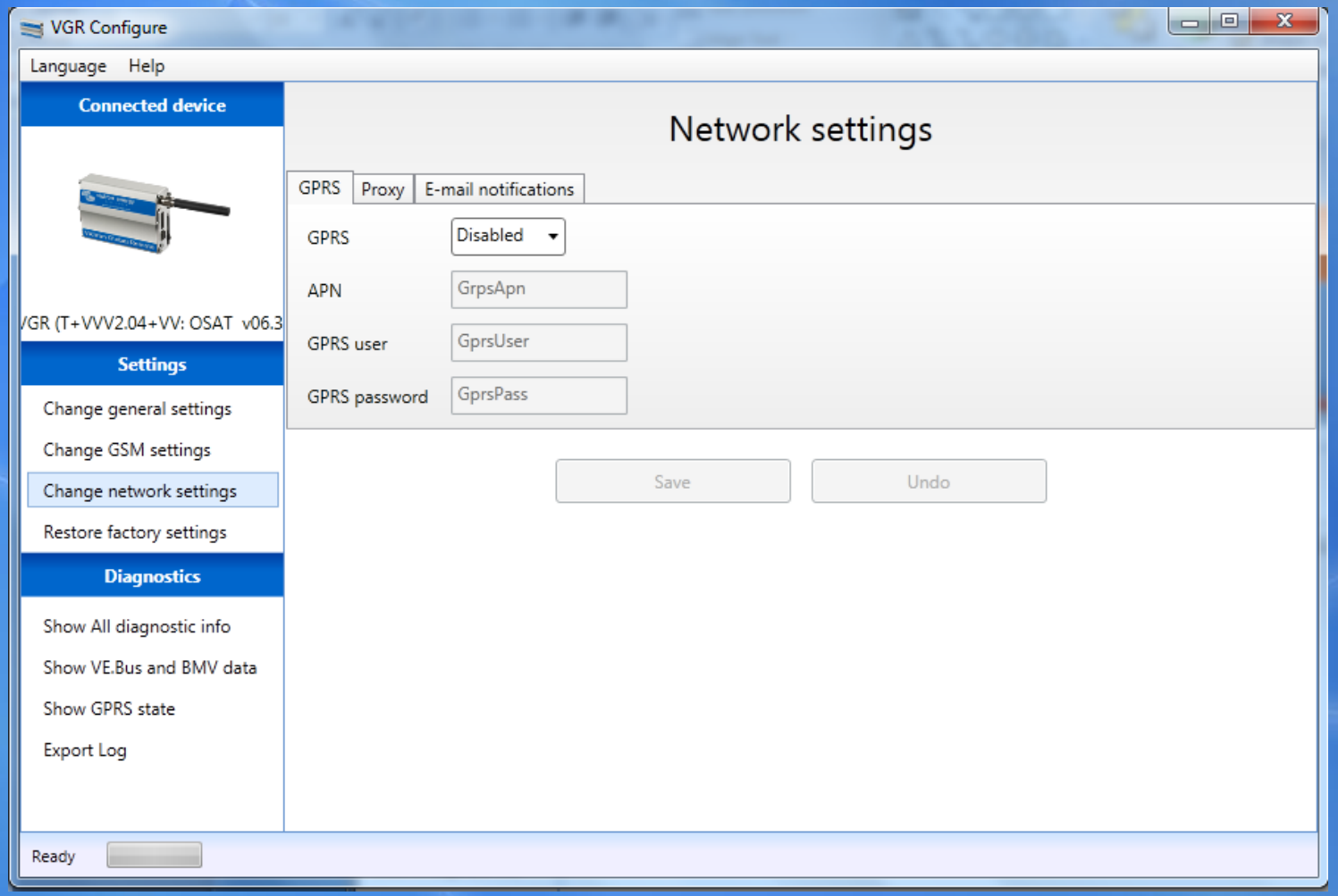
VGR Configure software

GSM settings:



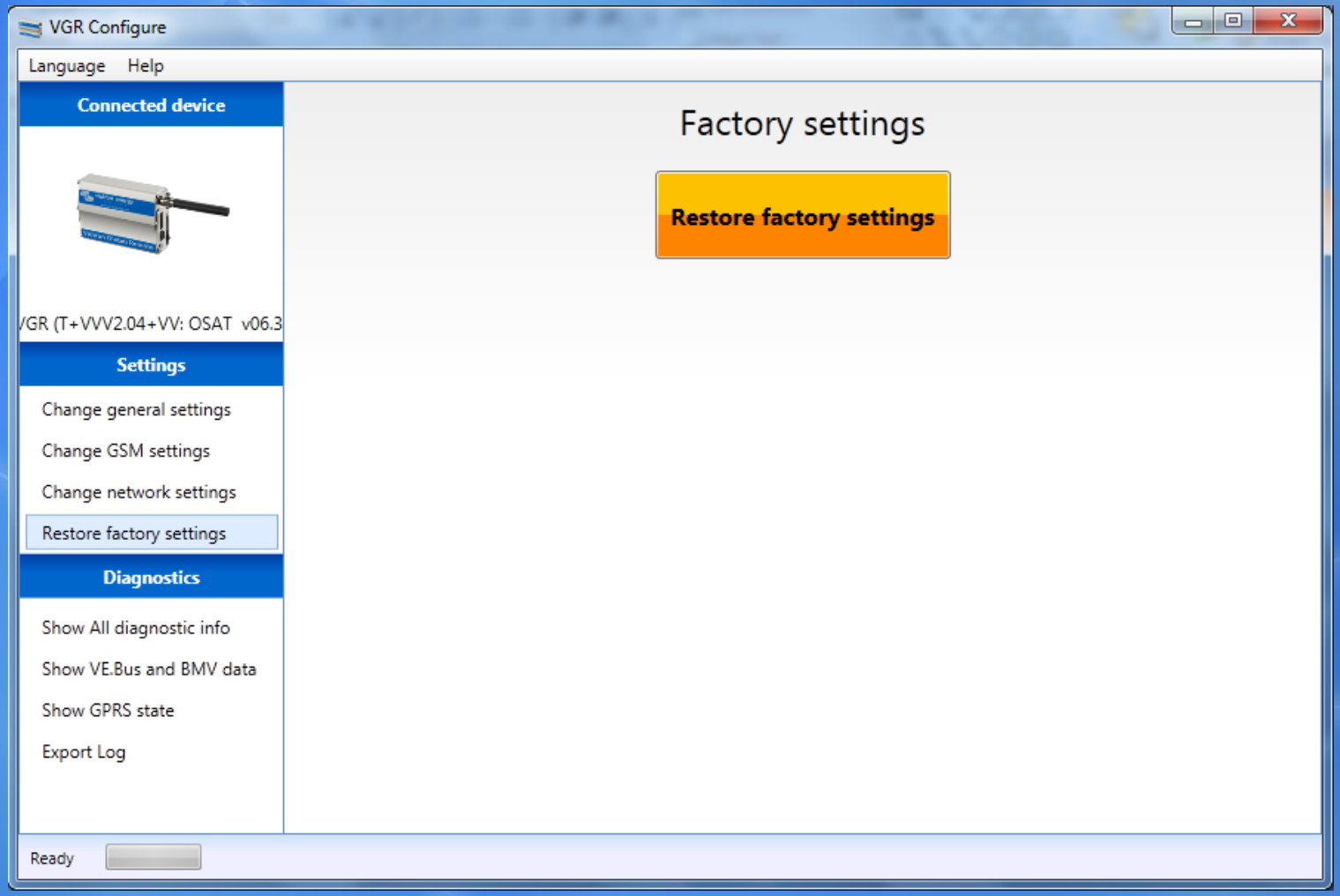
VGR Configure software

Network settings:



VGR Configure software

Reset to factory settings:

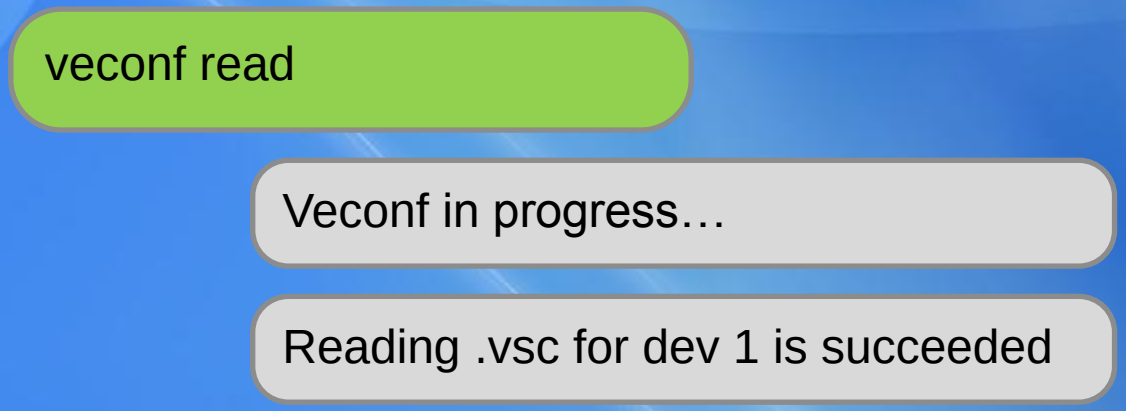


Remote VEConfigure

- Change VEConfigure settings over the air
- Can be done with the Victron Global Remote 2 and the Victron Ethernet Remote
- This is not possible with old Global Remote's ("Victron Global Remote")
- Make sure to use the latest version of VEConfigure2
- See also the manual on our website at the VGR and VER pages: "Manual – Remote VEConfigure".

Remote VEConfigure – procedure example

1. Read settings



2. Go to the VRM website and download the .VSC file
3. Change the settings in VEConfigure
4. Upload them back to the website

Remote VEConfigure – procedure example

5. Write settings

veconf write

Veconf in progress…

Writing .vsc for dev 1 succeeded

Finished! Now the VE.Bus system has been updated with the new settings made.

Remote VEConfigure – procedure example

How can we found out how many devices are in a system?

veconf devnum

Number of devs is 1!