

# Victron Global Remote Victron Ethernet Remote



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### **Overview - Victron Global Remote**



# **Overview - Victron Ethernet Remote**

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### **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

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# **VER with BMV**



# **VER with VE.Bus**

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# **Text messaging**

Send message to VGR:

info

Information from Multi

Information from BMV 4

#### 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



#### Send message to VGR:

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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





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#### <u>https://vrm.victronenergy.com</u> Demo account: demo@victronenergy.com / vrmdemo

			•				/	
	energy							
ne Admin Tools								Logout
ly Sites	Alicante		Period	18-06-2012	16:47 - 19-06-2	012 16:47	Apply	
123456789123454	Show elements							
<ul> <li>123456789123456</li> <li>355211010619322</li> </ul>	System invertin	ıg			last update: 19	-06-2012 16:46	:43 CEST (23s	ago)
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Cikupa Primatama	Absorption							
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# **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

Necessary to log information 4 to the website

#### Reply message:

GPRS user: vodafone pass: vodafone apm. office.vodafone.nl state: connected ip: 109.32.239 49



# **Online portal: GPRS configuration**

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

APN Username Password Proxy address and port

Required Optional Optional 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.comUsername:vodafonePassword:vodafone



#### Configuration with APN only:

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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

#### To remove the proxy configuration: gprs proxy #

#### Reply message:

#### GPRS

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

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



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-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





#### **General Settings:**

Service VGR Configure		30			
Language Help					
Connected device	General settings				
	Time	Sunday, F	ebruary 13, 2000 2:48 AM	Set to PC time	
and the second s	Logging	Enabled	•		
/GR (T+VVV2.04+VV: OSAT v06.3	Log interval	10	minute(s)		
Settings	Flash Logging	Disabled	•		
Change general settings	Flash logging interval		minute(s)		
Change GSM settings		_			
Change network settings			Save	Undo	
Restore factory settings					
Diagnostics					
Show All diagnostic info					
Show VE.Bus and BMV data					
Show GPRS state					
Export Log					
Ready					



#### GSM settings:

Service VGR Configure	A REAL PROPERTY OF				
Language Help					
Connected device	GSM settings				
	Network band	Dual-band 900E/1800MHz (Europe, Middle East, Africa, Oceania and most of Asia)			
Contraction of the local division of the loc	SMS alert numbers	+31644440539 Edit			
/GR (T+VVV2.04+VV: OSAT v06.3	SMS count (last 24 hours)	0 Reset to 0			
Settings	Max. SMS per 24 hours	100			
Change general settings	Send a test SMS to number	Send test SMS			
Change GSM settings					
Change network settings		Save Undo			
Restore factory settings					
Diagnostics					
Show All diagnostic info					
Show VE.Bus and BMV data					
Show GPRS state					
Export Log					
Ready					



#### Network settings:

Service VGR Configure					
Language Help					
Connected device	Network settings				
Contraction of the	GPRS Proxy E-r	mail notifications			
	GPRS	Disabled 🔻			
	APN	GrpsApn			
/GR (T+VVV2.04+VV: OSAT v06.3	GPRS user	GprsUser			
Change general settings	GPRS password	GprsPass			
Change GSM settings					
Change network settings		Save Undo			
Restore factory settings					
Diagnostics					
Show All diagnostic info					
Show VE.Bus and BMV data					
Show GPRS state					
Export Log					
Ready					



#### Reset to factory settings:

S VGR Configure	
Language Help	
Connected device	Factory settings
	Restore factory settings
/GR (T+VVV2.04+VV: OSAT v06.3 Settings	
Change general settings	
Change GSM settings	
Change network settings	
Restore factory settings	
Diagnostics	
Show All diagnostic info	
Show VE.Bus and BMV data	
Show GPRS state	
Export Log	
Ready	



# **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

veconf read

Veconf in progress...

Reading .vsc for dev 1 is succeeded

2. Go to the VRM website and download the .VSC file

Change the settings in VEConfigure
 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!