DECLARATION OF CONFORMITY

CE

COMPANY : Victron Energy B.V.

ADDRESS : De Paal 35
1351 JG Almere
The Netherlands

Declares that the following products:

PRODUCT TYPE : Auxiliary components
BRAND : Victron Energy

BPP900100200 CCGX WiFi module simple	ASS030570018 RS485 to USB interface cable 1,8 m
BPP900200100 CCGX WiFi module long range	ASS030570050 RS485 to USB interface cable 5 m
VCS000100010 VE.Net Tank Monitor (Current)	ASS300420100 Zigbee to RS485 converter
VRS000100010 VE.Net Tank Monitor (Resistive)	ASS300420200 Zigbee to USB converter
VVS000100010 VE.Net Tank Monitor (Voltage)	SHU500050100 Shunt 500A/50mV
BPP900600100 VE.Can resistive tank sender adapter	SHU102050200 Shunt 1000A/50mV
ASS030536010 VE.Direct Bluetooth Smart dongle	SHU202050200 Shunt 2000A/50mV
REL100100000 Anti-islanding relay UFR1001E	SHU602050200 Shunt 6000A/50mV
REL100200000 Anti-islanding relay SPI1021	SHU050130050 SmartShunt 300A/50mV
ASS000001000 Temperature sensor QUA/PMP/GX Device	SHU050150050 SmartShunt 500A/50mV
REL200100000 Wired AC sensor HUB-4 1/3-phase Imax=65A	SHU050210050 SmartShunt 1000A/50mV
REL200300100 Energy Meter VM-3P75CT	SHU050220050 SmartShunt 2000A/50mV

Are in conformity with the requirements of the following Directives of the European Union:

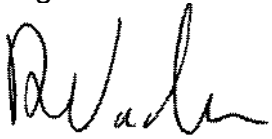
EMC Directive 2014/30/EU with the following harmonized standards:
EN 55014-1:2017/A11:2020
EN 55014-2:1997/A1:2001/A2:2008
ISO 7637-2:2016

Low Voltage Directive 2014/35/EU with the following harmonized standards:
EN-IEC 60335-1:2012 /AC:2014 /A11:2014 /A13:2017 A1:2019 /A14:2019 /A2:2019
EN-IEC 62109-1:2010

Restriction of the use of certain hazardous substances RoHS (2011/65/EU and 2015/863/EU) with the following harmonized standards:
EN-IEC 63000:2018

CE MARK DATE: January 22nd, 2016

Signed : Reinout Vader



Authority : Managing Director
Date : 27 August 2024

DRF2658C

1，Electronics Parameters：

Power	USB Port 5V
Temperature Range	-40^{0}C ~ 85^{0}C
UART Baud Rate	38400bps （Default），9600bps，19200bps，38400bps，57600bps，115200bps
Radio Frequency	2460MHz(Default)，2405MHz – 2480MHz，Step：5MHz
Protocol	Zigbee2007
Distance	Visible, open transmission distance : 1600 meters
Operating current	Send：120mA(Max) Receive：45mA（Max） Standby：40MA（Max）
Receiver sensitivity	-110dBm
Chip	CC2530F256，256KFLASH
Configured Node	Coordinator，Router Default：Router，PAN ID=0x199B，Channel=22（2460MHz）
Interface	RS232: 2-TX 3-RX 5-GND
Size	70*50*24mm







地址：深圳市宝安区宝安大道卡罗大厦 2A 栋 505-506 室 网址：www.dtkcn.com

DRF2659C

1，Electronics Parameters：

Power	Standard：DC5 –12V
Temperature Range	-40^{0}C ~ 85^{0}C
UART Baud Rate	38400bps （Default），9600bps，19200bps，38400bps，57600bps，115200bps
Radio Frequency	2460MHz(Default)，2405MHz – 2480MHz，Step：5MHz
Protocol	Zigbee2007
Distance	Visible, open transmission distance : 1600 meters
Operating current	Send：120mA(Max) Receive：45mA（Max） Standby：40MA（Max）
Receiver sensitivity	-110dBm
Chip	CC2530F256，256KFLASH
Configured Node	Coordinator，Router Default：Router，PAN ID=0x199B，Channel=22（2460MHz）
Interface	RS485: B A GND
Size	70*50*24mm







地址：深圳市宝安区宝安大道卡罗大厦 2A 栋 505-506 室 网址：www.dtkcn.com

2.2.2. Zigbee connection to a GX device

The ET112 can also be wirelessly connected to a GX device via our Zigbee to USB converter & Zigbee to RS485.

The Zigbee to USB converter is connected to the GX device and the Zigbee to RS485 converter is connected to the ET112.

1. Connect the Zigbee to USB converter to the GX device using the supplied USB cable.

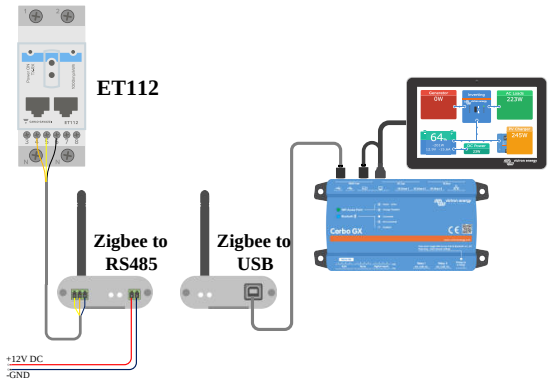
   A few seconds after connecting, the active LED should be on and the TX/RX LED should be blinking (the converter takes its power from the GX device, so the GX device needs to be switched on as well).

2. Connect the Zigbee to RS485 converter to the ET112 energy meter according to the table below:

Zigbee to RS485	ET112 terminal number	Color
GND	6	Black
A	4	Orange
B	5	Yellow

   In case you have several Zigbee devices installed, make sure only one Zigbee device is powered up right now: the Zigbee to USB converter connected to the GX device. Power down all others. If you don't do this, the Zigbee to RS485 converter may be connected permanently to another Zigbee device.

3. Connect the 12V DC power supply to the Zigbee to RS485 converter. When the power is switched on, check the LEDs again.



Energy Meter wireless Zigbee connection to a Cerbo GX

Note on old and new Zigbee converters

Please note that there is a new Zigbee converter available now, that is **not** backwards compatible with the old converters. See table below for old versus new part numbers. If you have a non compatible set, please ask your supplier for a correct version.

old/new	Victron part number	Zigbee to RS485 converter part number
old	ASS300400100	DRF2619C
old	ASS300400100	DRF2618A
new	ASS300420100	DRF2659C
new	ASS300420200	DRF2658C

Note on GX firmware versions

For the new type Zigbee converters, Venus OS v2.54 is the minimum required software version.