Energy Meter

1. Introduction and usage

This document is the manual for the three phase max 65 A per phase Energy Meter. As shown in the picture above.

https://www.victronenergy.com/accessories/wired-ac-sensor

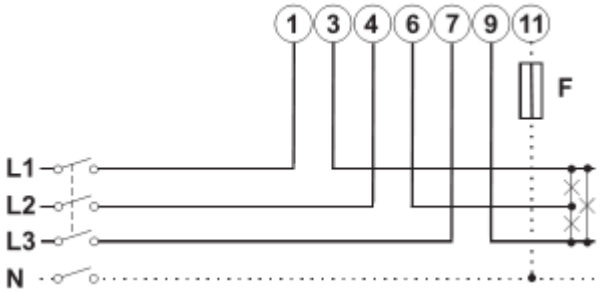
Previously called the Wired AC sensor.

The meter can be used for four things:

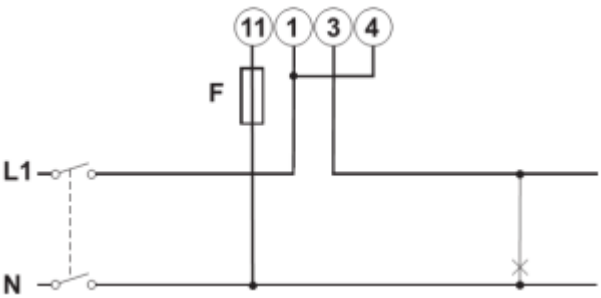
1. Grid meter, and used as control input for an ESS System.
2. Measure the output of a PV Inverter
3. Measure the output of a AC Genset
4. (deprecated) Grid meter, used as control input for a Hub-4 system

2. Wiring

3-phase setup diagram:



single phase setup diagram:



Note the jumper between terminals 1 and 4. You do not need this connection if you have the version

AV2 of the sensor.

Meter configuration

Change the front selector so it is not in the locked state. This will allow it to be automatically configured by the rest of the system the meter. The front selector is located next to the display as indicated in this image:



Option A: Wireless connection to CCGX

1. Connect the Zigbee to USB converter to the CCGX 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 CCGX, so the CCGX needs to be switched on as well).



2. Connect the Zigbee to RS485 converter to the EM24 energy meter:

Converter	Grid meter
GND	Terminal 43
A	Terminal 42
B	Terminal 41





3. Make sure only one Zigbee device is powered up right now: the Zigbee to USB converter connected to the CCGX. Power down all others. *If you don't do this, the Zigbee to RS485 converter may be connected permanently to another Zigbee device.*

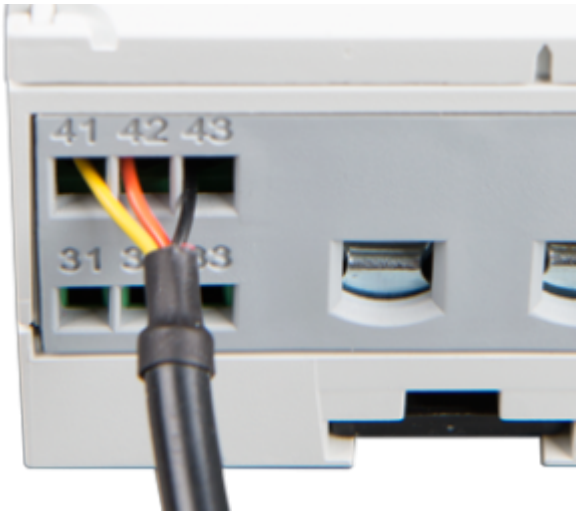
4. Connect the 12V DC power supply to the Zigbee to RS485 converter. When the power is switched on, check the LEDs again.

Option B: Wired connection to CCGX

Connect the meter to the CCGX using the USB to RS485 converter cable:

RS485 Converter	Grid meter
Yellow	Terminal 41
Orange	Terminal 42
Black	Terminal 43

The Red, Green and Brown wire are not used



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