



⏻ Measuring

Electricity consumption of household / specific devices / RES generation

Control

- Renewable energy sources
- Grid use
- Thermal accumulation
- Electrical energy accumulation
- Heating/Cooling systems
- Home appliances
- Electric vehicle charger

⏻ Analyzing

Behavior of home electrical appliances

Integration

- Share energy - peer to peer
- Virtual power plant
- Smart grid ready
- Grid services

⏻ Optimization

Prediction of demand side management, RES generation, self-learning algorithm

Values

- Economical
 - Energy bill reduction
 - Energy efficiency improvement
- Ecological
 - CO₂ reduction – eco friendly
- Independent
 - Higher standard of living
- Under control
 - Energy monitoring

Technical Data

Energy manager

Connection to the local router

PV inverter

Energy meter

Interfaces for energy management Appliances

Victron Energy devices

Battery management system

Measuring device

Temperature sensor input

Input (voltage and current)

Voltage range

Power supply

Self-consumption

General Data

Dimension (WxHxD)

Weight

Mounting location

Mounting type

User interfaces

Status display

LED indicator

Button

Online Interface

Mobile App

Ambient conditions in operation

Ambient temperature

Storage temperature range

Protection class (according to IEC 62103)

Degree of protection (according to IEC 60529)

Max. permissible value for relative humidity (noncondensing)

Features

External display *

External IO unit *

SSR driver *

*optional

iMP

via Ethernet or Wi-Fi 802.11n

via Ethernet or Wi-Fi (SMA, Fronius, SolarEdge)

Direct data connection (ModBus RTU) Carlo Gavazzi EM24

- three-phase measuring (2 unit recommended for measuring consumption and production)
- one-phase measuring (production/consumption in one unit)

- Direct connection (Modbus RTU/TCP)

- Wi-Fi

- Expandable RF module (ZigBee, Z-Wave) *

- 2x relay outputs (direct switching)

- 2x voltage reference 0-10V

- 2x PWM

Direct data connection (VE.Can, VE.Direct) MPPT Solar charger, Invertor/Charger(VE.Bus) and CCGX (Modbus TCP)

- Direct data connection (RS485, CAN bus)

- via VE CCGX

- Compatible with BYD, PYLONTECH, VictronEnergy, BMZ, LG chem RESU

128 x digital 1-Wire temperature sensor (DS18B20)

24-60 V

External source or battery

200mA (less than 5W)

161,6x90x60mm

0,3 kg

Switch cabinet or distribution board

DIN rail

Monochrome 128x64 OLED

4 x LED

4x buttons

Online dashboard and control panel

Android and IOS compatible applications

-25°C to +40°C

-25°C to +70°C

II

IP2X

5% to 90%

Output for external 128x128 OLED display

6x on/off control, 6x one wire temperature sensor

Solid state relay proportional controller