

Charging systems

Practical use of space and renewable energy

- Polish independent producer
- The only comprehensive energy management system on the market
- Modular solutions compatible with most energy solutions
- Innovative solutions with customization possibilities
- Effective data management (including electricity consumption)



Original hardware and firmware solutions



Certification based on the latest measurement standards



Communication by Ethernet/WiFi



REST API – possibility to integrate with building automation or Smart Home

Wallbox

Compact, fast and wall-mounted charger up to 22 kW to EV and with a power of up to 22 kW for electric cars (EV) and plug-in hybrid cars (PHEV) with a Type 2 charging socket.

WALLBOX STANDARD

Modbus RTU / CAN 2.0 communication	Included in the price
Loadbalancing (static, dynamic)	Included in the price

TECHNICAL DATA

Power supply	AC230 V 1-phase AC400 V 3-phase
Input voltage	AC230 V (50/60 Hz) AC400 V (3x230 V)
Cable	Type 2 (Mennekes, IEC 62196-2)
Classification	Mode 3 Level 2
Network system supply TN-S	TN-S
Input power	32 A
Max. output power	7,4 kW 1-phase 22 kW 3-phase
Power regulation	Linear power control 0,6 A Step power control every 10, 16, 24, 32
Impact resistance	IK08
IP code	IP65
Residual current circuit breaker	Yes, according to norm
Operating temperature	-30 to 50°C
Dimensions (W x S x G) [mm]	255 x 250 x 160 [mm]
Casing	Polycarbonate
Weight	1 - phase 3,8-4,1 kg 3 - phase a 6,5 kg
Installation height	1,2-1,4 m from the ground to the bottom edge of charger
Control API, home application	Modbus RTU (Standard) CAN 2.0 (Standard)
Manufacturing site	UE/Poland
Warranty	24 months



**Compatible with
Smart Home
systems**

- **Customization possibility**
- **Support in obtaining grants**
- **Lower costs even without PV**

Logo on a front panel	Individual price offer
Display colour	Individual price offer
Dynamic power control	Individual price offer
Casing colour	Individual price offer

22kW station

Dual charging station

Charging stations with sockets or cables with customized length (recommended 3.5 m) depending on the expected utility values.

22KW STATION

Modbus RTU / CAN 2.0 communication	Included in the price
Loadbalancing (static, dynamic)	Included in the price

TECHNICAL DATA

Power supply	230 VAC 1-phase 400 VAC 3-phase
Input voltage	230 VAC (50/60 Hz) 400 VAC (3 x 230 V)
Option with sockets	Type 2 (Mennekens, IEC 62196-2)
Option with cables	2 x cable terminated with connector Type 2 4.5 m standard length
Network system supply TN-S	Mode 3 Level 2
Max. input power	32 A
Max. output power	2 x 1.5—22 kW (socket and cabel)
Power regulation	Linear power control 0,6 A Step power control every 10, 16, 24, 32
Impact resistance	IK08
IP code	IP65
Residual current circuit breaker	Yes, according to norm
Operating temperature	-30 to 50°C
Dimensions (W x S x G) [mm]	1160 x 370 x 270 [mm]
Casing	Anodized aluminium + Polycarbonate
Weight	12 kg
Control API, home application	Modbus RTU (Standard) CAN 2.0 (Standard)
Manufacturing site	UE/Poland
Warranty	24 months



- **Autonomous operation without the need to control external OCPP systems**
- **Built-in integration with BMS or similar building control systems**
- **Power guard. Accurate monitoring the contractual capacity of building**

Logo on a front panel

Individual price offer

Colours

Individual price offer

Electric meter

Two-way, multifunctional, single-phase/three-phase static meter of multiple types of electricity consumption for semi-indirect measurement designed to work with low power current transformers (LPCT).

ELECTRIC METER

Electric meter
WiFi communication
Connection with Grenton application

TECHNICAL DATA

Power supply	230 VAC 1-phase 3 x 230 VAC 3-phase
Input voltage	AC230 V (50/60 Hz) AC400 V (3x230 V)
Max. power consumption	3 W / 5 VA
Max. current consumption	0.05 A
Max. current	75 A*
Max. cross-section connection for 230 VAC	2.5 mm ²
Reference voltage	230 VAC
Reference frequency	50 Hz ~ 60 Hz
IP code	IP20
Residual current circuit breaker	No, required connection before electric meter
Operating temperature	0 to 55°C
Dimensions (W x S x G) [mm]	58 x 71 x 90 [mm]
DIN size	4
Installation	Switchgear, DIN-3 rail, TH 35, TS 35
Mechanical environment conditions	M1
Electromagnetic environment conditions	E2
Overvoltage category	II
Contamination level	1
Manufacturing site	UE/Poland
Warranty	24 months



- **Compact casing**
- **Energy-saving**
- **Measurement accuracy and repeatability of readings**
- **Adaptability**
- **Voltage, current and power measurement**
- **Ethernet or WiFi communication**

Logo on a front panel	Individual price offer
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LEDs colour	Individual price offer
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Casing colour	Individual price offer
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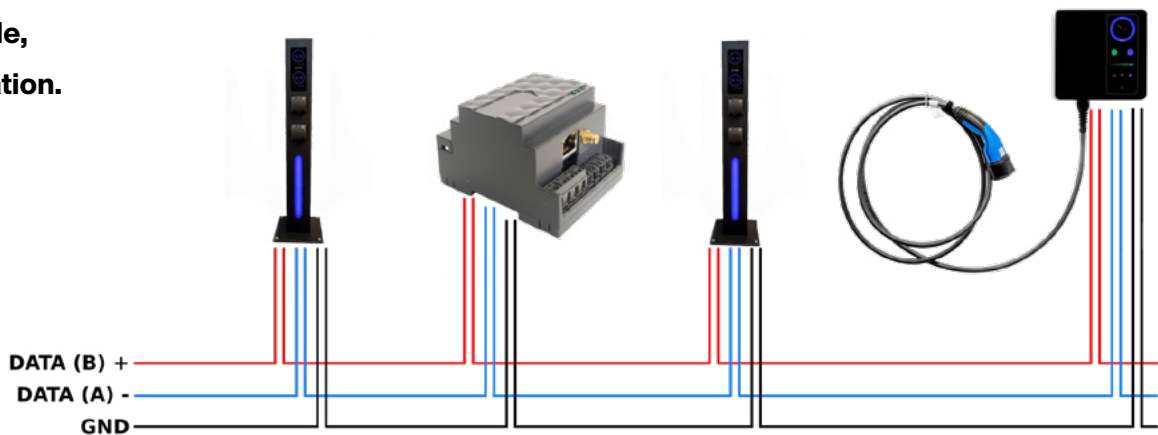
* The offer also includes current transformers adapted to measure higher currents (100 A, 150 A) intended for bigger electrical installations.

Modbus RTU and CAN communication

Modbus RTU

Via modbus RTU communication protocol,
it can be set

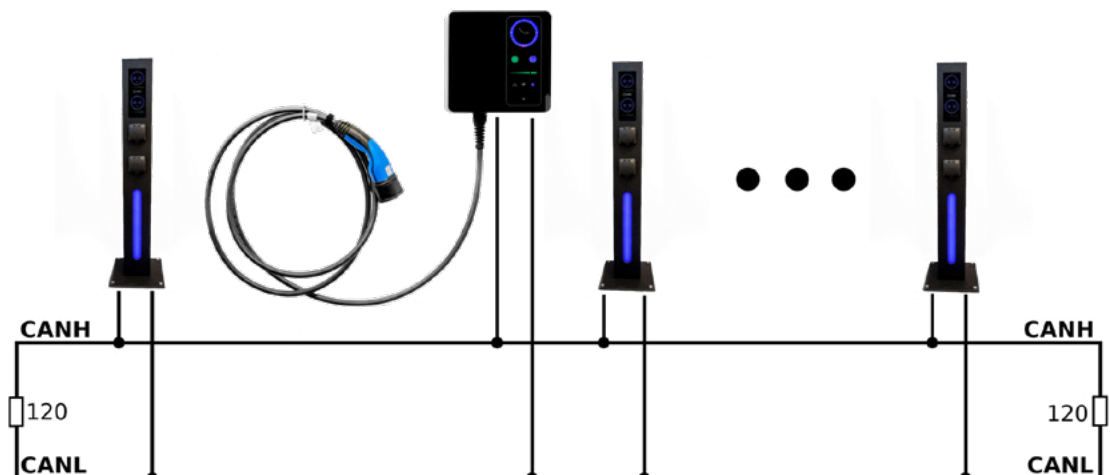
- maximum intensity of charge,
- time on a charger,
- car charging hours,
- ECO mode,
- authorization.



CAN 2.0

Via CAN 2.0 communication protocol it can be set:

- Load balancing, which can be used to program, for example, a queue.





The smartest PV system on the market

Contact us

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