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Ekoenergetyka - Zachód s.c.  
ul. Prof. Z. Szafrana 2, 65-516 Zielona Góra  
NIP: 929-181-67-67

**EKO** SMART ENERGY SYSTEMS  
**ENERGETYKA**



# smartPoint

SmartPoint is an electrical device designed to charge battery packs in cars equipped with on-board charger units. Smart Point can also be used as a public charging point. It allows accounts to be settled by each user individually. The unique feature of this station is its modular construction which allows it to be adjusted to customer requirements and all EV standards which are still changing. Thanks to advanced information and communication technology, it is possible to remotely control the station, identification of each individual user, control of the charging process and technical state of the secure devices. SmartPoint is a second class charging speed device used for slow charging.

## Functions:

- charging electric vehicles (EV) battery packs
- identification of technical loading parameters of the car (only applicable to IEC 62196)
- identification of users holding RFID cards (registered in our monitoring system)
- communication between charging point and monitoring system using gsm module, optionally Ethernet
- option of using display as advertising module, remote control of the module from the monitoring system
- ability to work in the smart grid system



## Technical specification

power	3x230/400 V, 50 Hz
charging output	230 V 16 A, 230/400
socket configuration	3 x IEC62196 2 x IEC62196 + 1 x CEE7 1 x IEC62196 + 2 x CEE7
enviromental conditions	-20°C / +50°C
display	LCD 7 inch RGB 800 x480
color	RAL palette
payment metods	individually (PrePaid / PostPaid)
weight	90 kg
size	350 x 350 x 1600 mm

## Software:

We supply every smartPoint with an online monitoring system which is included in the price. Monitoring system allows the addition of new users to the account, fix the charging limits and tariffs, settle the account for used energy and control of the advertising module. The operator of the charging station is informed via the monitoring system regarding faults that may appear in the station. The station can be configured individually on special requirements of the clients. We are also able to prepare service cards which enable authorization without connection to the monitoring system.

## Security:

- cover (black steel and stainless steel 2mm) with inside steel carcass
- socket protective door made from stainless steel and plexi glass
- enabling access to the socket only for registered users
- using IEC 62196 standard. Output voltage appears only after identification of the vehicle and after blocking the plug
- emergency power supply. Ability to open the socket door and disconnecting the plug in case of power failure
- ability to remotely disconnect the voltage via monitoring system
- concrete foundation for charging point installation
- max. overcurrent limit
- registration of the disappearance of the voltage (phase control relays)
- residual current device
- detection of loss of connection between vehicle and charging point
- detection of power cord damage
- detection of protective door damage

## Conditions for power connection:

- rated voltage: 3x230/400V, 63A
- rated charging voltage : CEE7 socket 230V, IEC 62196 socket 3x230/400V
- power consumption (depends on the socket configuration)
- power consumption during standby: <15 W
- overcurrent protection during charging (depends on the socket configuration ) CEE7 16 A, IEC 62196 16/32/63 A
- rated frequency: 50 Hz

