Zaptec Pro

intelligent charging system

No matter what you drive or where you're going, Zaptec Pro is the surest way to power your journey. A Zaptec charging system uses all available capacity and distributes it intelligently between the charging stations.

A smart and efficient charging station designed for larger parking spaces in housing cooperatives, co-ownership properties, companies, and new builds. Delivering up to 22kW of power, it can charge your EV for a driving range of up to 110 kilometres in just one hour.

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Zaptec

Use all available capacity

The available power is divided dynamically across all charging stations. Zaptec performs load and phase balancing, and the charging station switches dynamically between 1-phase and 3-phase charging for best possible utilisation. Zaptec has patented a unique method for balancing single-phase and three-phase charging. This allows the charging system to utilize the available power more efficiently than other charging stations.

Explore Zaptec Pro

Expand the charging system
When installing Zaptec, the infrastructure can be set up for all parking spaces. If there is increased demand for charging, you can quickly and easily scale the existing infrastructure with no additional effort or investment in the fuse box.

Better Internet connection
Zaptec's 4G LTE-M, which is supplied by Telenor, provides good uptime and can help make the charging system cheaper with no extra infrastructure. The charging system is online 24/7 and ensures that regular software updates are implemented.

5 year guarantee
Zaptec Pro is designed to last. Designed and developed in Norway and produced in Germany, it works in the most demanding weather conditions.

Distribute costs fairly
The MID certified built-in power meter indicates accurate consumption and allows shared garage or parking spaces to be assigned to and paid for by individual users. Use our administration system free of charge, or choose from a range of payment services for automatic payment, operation and support.

German calibration law (Mess- und Eichrecht)
A robust measurement device seamlessly merges software and hardware, ensuring accurate charging energy readings under all conditions. Its cryptographic unit safeguards data from manipulation. Data is shown locally on the device and accessible via Zaptec services. Zaptec Pro ensures legal compliance and GDPR adherence, providing users with secure and transparent solutions.

Safe arrival every time

We put safety first

At Zaptec we're as passionate about your safety as we are about electric power. Zaptec Pro leads the EV charging market in safety and is certified with the highest safety standards. Our entire charging system is approved by TÜV SÜD safety tests in accordance with IEC 61851-1, which defines a safe charging system.

The charging system can easily be expanded

By preparing for EV charging in all parking spaces, you ensure that future charging stations can be installed quickly and easily.

The Zaptec Pro has a unique design with electrical connection back plates that allow the electrical work to be done separately from the actual installation of the charging station. A Zaptec installation shares a single circuit and a single power cable. All communication between the charging stations and cloud service Zaptec Portal takes place through the same power cable.

Monitor your charging system with Zaptec Portal

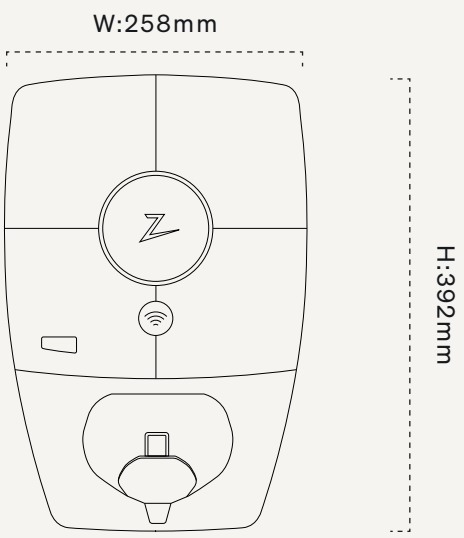
Zaptec Pro is connected to the brains behind our smart charging system, Zaptec Portal. It continuously monitors, balances and optimises the load between the various charging stations.

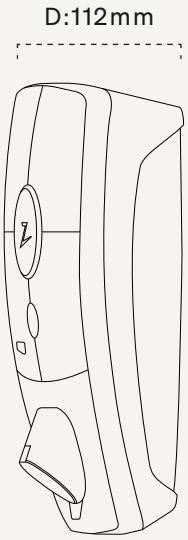
Installers and owners of charging installations can easily keep track of their installations in the Zaptec Portal. It is used to add charging stations, read charging history, install updates, monitoring, configurations and more.

Future-proof and up-to-date

The charging station supports ISO 15118, which makes it ready for Plug & Charge, State-of-Charge and other exciting options that will make it possible for us to improve the user experience. With its use of advanced technology, built-in software and a cloud solution for configuration and monitoring, this charging system is set up for the future.

Down to the details





Technical information

Zaptec Pro M&E is an alternating current wall or column-mounted charging station in accordance with IEC 61851-1, EVSE mode 3.

Dimensions and weight
H: 392 mm W: 258 mm D: 112 mm
Weight: approx. 5 kg (including backplate)

Installation circuit
Max. 63A circuit breaker on installation circuit for charging stations.

Backplate connection box
Cable cross section 2.5–10 mm^2
Cable diameter 10–18,5mm

Installation network, Voltages
TN, IT and TT
230VAC ±10%
400VAC ±10%

Max. current and charging output
22 kW at 32A / 3-phase (applicable to TN networks only)*
12,7 kW at 32A / 3-phase (IT network)*
7,4 kW at 32A / 1-phase (IT/TN network)*
3W at standby

Integrated circuit breaker
Built-in 3 × 40A MCB (miniature circuit breaker) type C

Charging socket
IEC 62196-2 Type 2 with integrated self-closing cover. Electronic lock can be locked permanently by the user.

Earth fault protection
Built-in type B RCD
Calibration and a self-test are carried out before the start of every charging cycle. RCD can be automatically reset by disconnecting from the charging connector.

Integrated Power Meter
MID class B certified (EN 50470)
Display showing total energy (kWh)

Theft protection
The front cover of the Zaptec Pro can only be opened using a special tool. The charging cable can be locked permanently to the charging station.

Load balancing
Together with other Zaptec Pro charging stations, available power in the installation will be distributed automatically between the devices and phases.

Phase balancing
The charging station will dynamically select any single phase or 3-phase in a system with other Zaptec Pro charging stations, depending on the available power.

Communications interface and cloud connection/network
4G LTE-M
Wi-Fi 2.4 GHz, IEEE 802.11 b/g/n (channels 1-11)
Powerline (PLC) – HomePlug Green PHY®, 10 Mbit/s

Identification and configuration
Bluetooth 5.1 (BR/EDR/BLE)
RFID/NFC reader – ISO/IEC 14443 A (Type A, 13.56 MHz) ISO/IEC 15693 (Mifare classic, 13.56 MHz)
Plug and Charge - Hardware support for ISO15118
RGBW LED-circle for status of unit

Standards and approvals
CE compliance in accordance with the Radio Equipment Directive 2014/53/EU and ROHS Directive 2011/65/EU, and compliance with IEC 61851-1 (TUV SÜD) and IEC 61851-21-2, in addition to PTB-A 50.7 and PTB - Regelermittlungsausschuss Dokument 6-A

Temperature range
–30°C to +40°C

Degree of protection
IP54, indoor and outdoor use
IK10 impact protection
UL94 5VB flammability rating
UV resistant

Electrical protection
Protection class I
Overvoltage category III (4kV)

Integration services
Third-party integration alternatives (API, Webhooks)
OCPP 1.6J cloud-to-cloud
Message subscription

*32A is available but may be restricted by the condition of the vehicle's battery and temperature increases at the charging station.