



# Software for charging and load management

Intelligent and convenient management of charging stations

# Good reasons for charging management

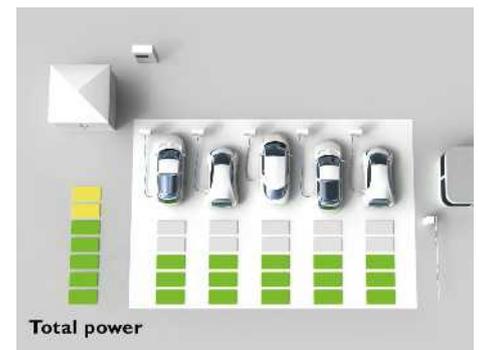
With the growing number of electric vehicles, the demand for charging options is increasing. Parking lots and parking garages are therefore increasingly being equipped with charging stations.

The planners, constructors, and operators of such charging parks are faced with the challenge of ensuring the optimum charging power for each charging point with the limited on-site grid connection. At the same time, a high degree of availability and safety must be ensured, taking other consumers and generators into consideration.

The EV Charging Suite, our scalable software solution, enables you to overcome this challenge. Manage up to 50 charging points and optimize their operation.

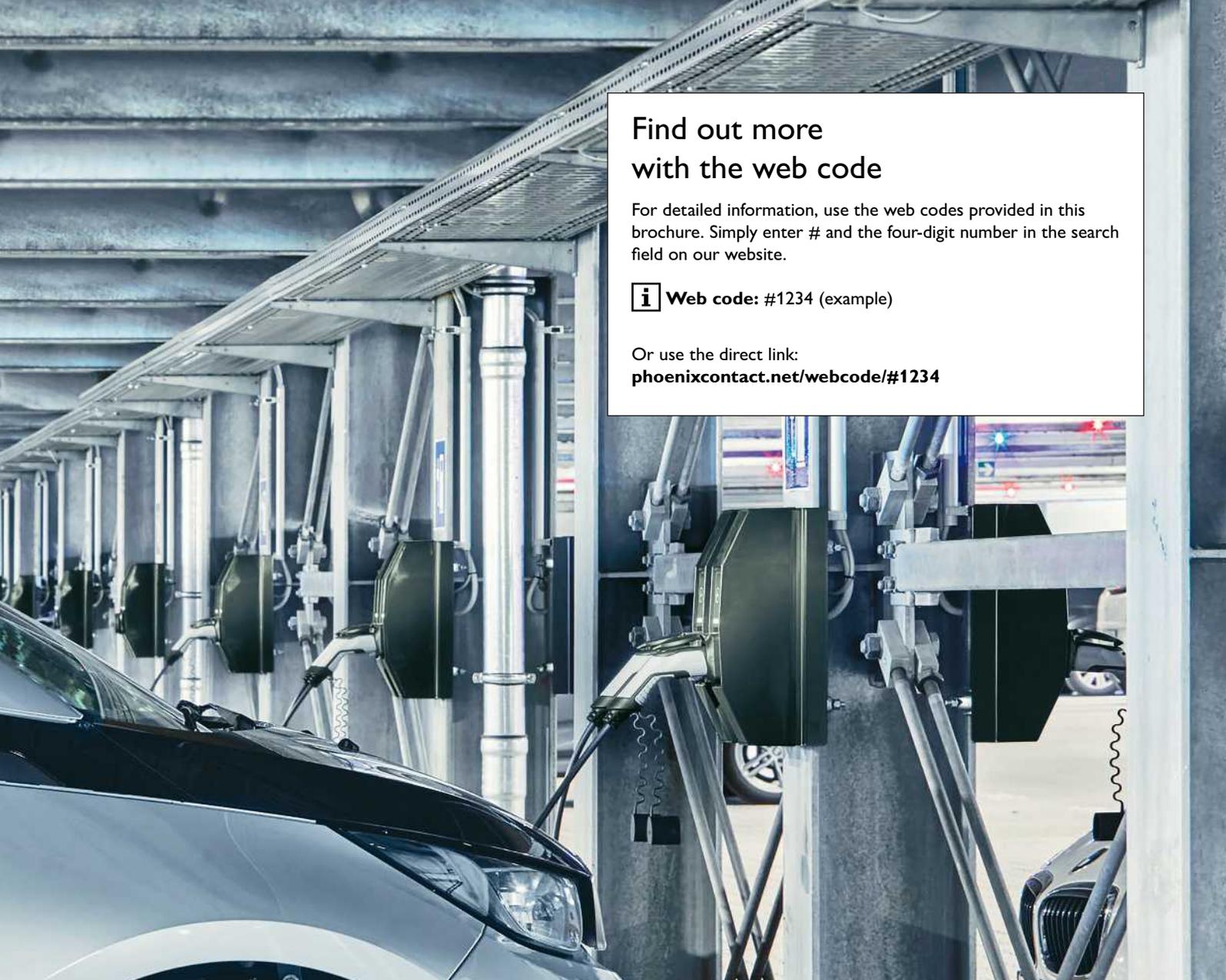
## Your advantages

- ✓ Integrated load management prevents costly failures and ensures the availability of the charging park
- ✓ Easy startup, configuration, and monitoring of the charging park via web browser
- ✓ Intuitive touch operation for the electric vehicle driver at the central terminal
- ✓ Future-proof and flexible with scalable licenses and the easy addition of new charging points
- ✓ Flexible connection to building management and backend systems



## Distribute power intelligently

The highly efficient load management ensures the equal distribution of the available connected load to up to 50 AC and DC charging points. This protects your grid connection against overload and the distribution network against unbalanced loads.



## Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

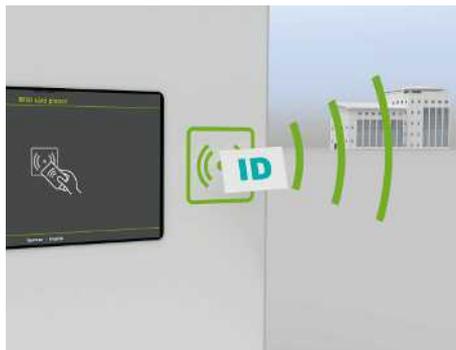
**i** Web code: #1234 (example)

Or use the direct link:  
[phoenixcontact.net/webcode/#1234](https://phoenixcontact.net/webcode/#1234)



### Prioritize users as required

Instead of the equal distribution of the charging power to all charging points, you can prioritize individual users based on four levels ranging from high to low. This can be useful for short-stay or VIP guests, for example.



### Connect backend services

Connect to cloud-based services via the integrated Open Charge Point Protocol (OCPP). These include, for example, user authorization as well as the transfer of charging data for billing purposes.



### Couple charging park and building

If the charging stations are part of the building infrastructure, it makes sense to connect them to building management. The system dynamically allocates the available charging current based on the demands of the other consumers.

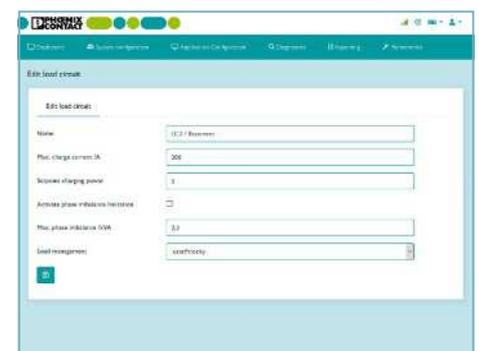
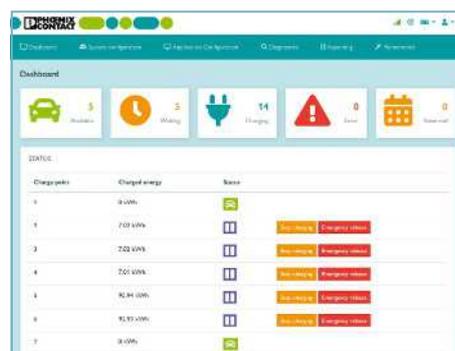


# Control conveniently

Your charging park can be started up, configured, controlled, and monitored via a web browser.

With just a few clicks, you can manage users and charging points, authorize charging processes, and perform many other tasks – whether from a conventional desktop PC setup or while using a tablet on the go via a secure VPN connection.

The intuitive web interface combines all the functions required for system operators, service technicians, and operating personnel.

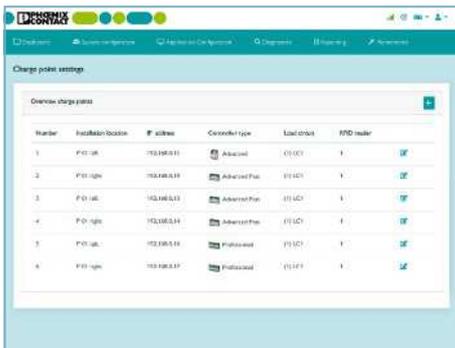
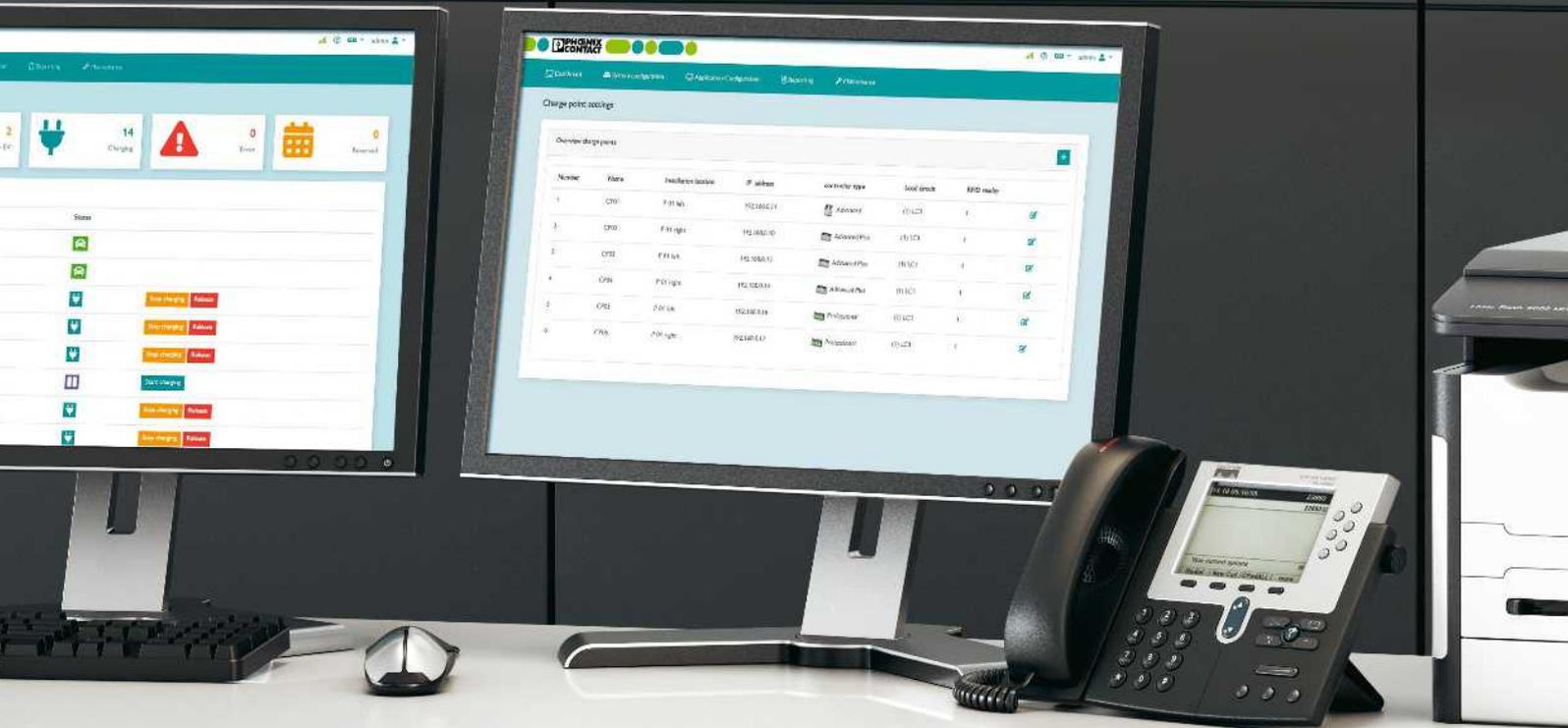


## Keep track

The dashboard provides you with a quick overview. It shows the status of each charging point as well as the energy charged. You can authorize or terminate charging processes manually.

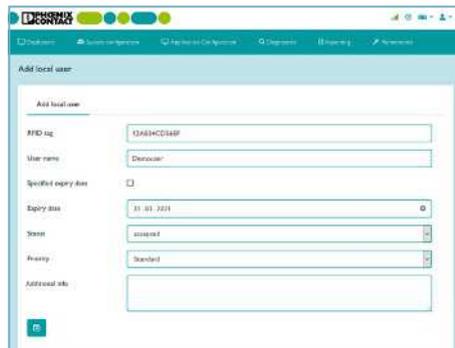
## Configure load circuits

Very large charging parks or distributed installations can be split into two load circuits. You can configure the parameters, such as the connected load or unbalanced load limitation, separately for each load circuit.



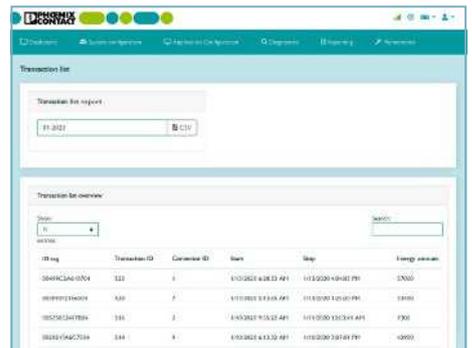
### Add charging points

You can easily add new charging points, simply by configuring their parameters, such as load circuit assignment, charging controller type, IP address, type of charging, and electrical values. You can therefore extend your charging park flexibly.



### Add local users

Issue charging authorizations to users at local level by assigning RFID tags to them. As an option, you can specify the expiry date and priority of users. Alternatively, authentication takes place via OCPP with the billing provider.



### Export charging data

The energy and transaction data for all charging processes can be exported in CSV format for local billing or diagnostics. For example, this enables you to evaluate the utilization of your charging park over longer periods of time.

# Charge easily

If desired, users of your charging stations are led through the process at a central terminal via touch screen, from authorization to completion of the charging process.

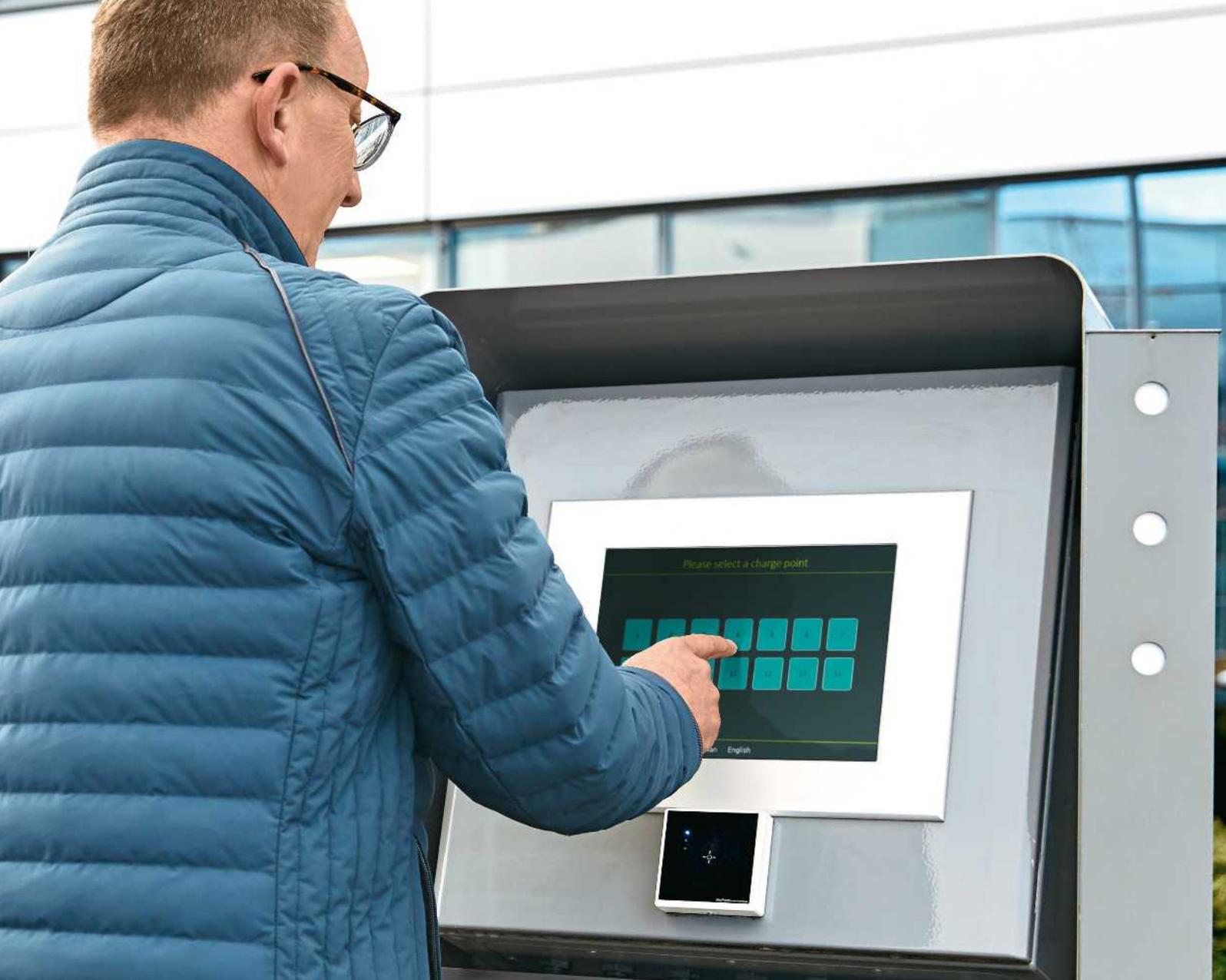
The EV Charging Suite records all relevant energy and transaction data during the charging process and stores it in a local SQL database before transferring it to the backend provider via OCPP.

The touch interface can also be customized with your logo and preferred colors on request – making it an integral part of your uniform branding concept and image.



## Authorization

The user obtains authorization using an RFID card, for example.



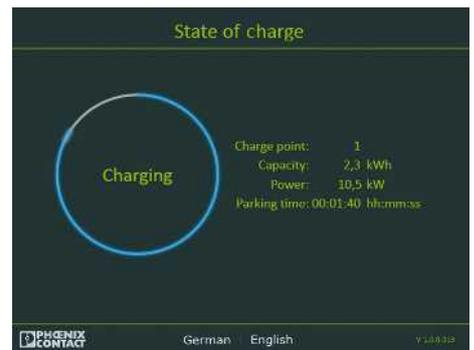
### Select the charging point

The user then selects an available charging point.



### Connect the vehicle

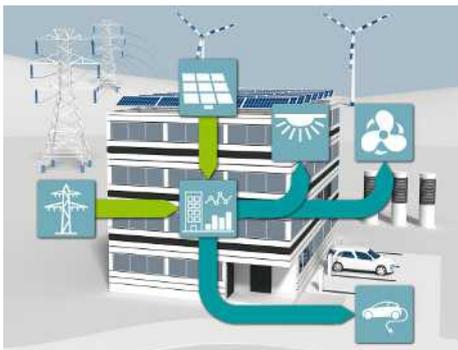
The user is asked to connect their vehicle via a charging cable.



### Charge the vehicle

During charging, values such as the current charging power are displayed.





### Distribute energy intelligently

Monitoring and analysis of all generation and consumption data enable the predictable, demand-oriented provision and distribution of energy. This safeguards operation, minimizes losses, and optimizes costs.



### Use electric cars as storage

Using electric vehicles as mobile energy storage may be the answer to avoiding costly peak loads in future. We are already working on the development of vehicle-to-grid and vehicle-to-building solutions.



### Connect existing systems easily

As an alternative to Emylatics, the EV Charging Suite can also be connected to other building systems. Here, dynamic charging current limitation is performed via I/Os using switching or analog actuators.

# Implement your charging park with us – scalable and future-proof

## 1. Choose the software license

You can purchase graded software licenses for 5 to 50 charging points to suit the size of your charging park. Affordable upgrade licenses are available for any future expansion. This enables you to invest for the future effectively and develop your charging options flexibly.

## 2. Choose the industrial PC

Depending on the architecture of your charging park, you can choose between two industrial PCs that deliver the appropriate hardware performance. It will take you just a few minutes to install the software on them.

- Panel PC for charging parks with central authorization and touch operation at the terminal – easy to read even in strong sunlight
- Box PC for charging parks with or without distributed authorization at the charging point

## 3. Choose the charging controller

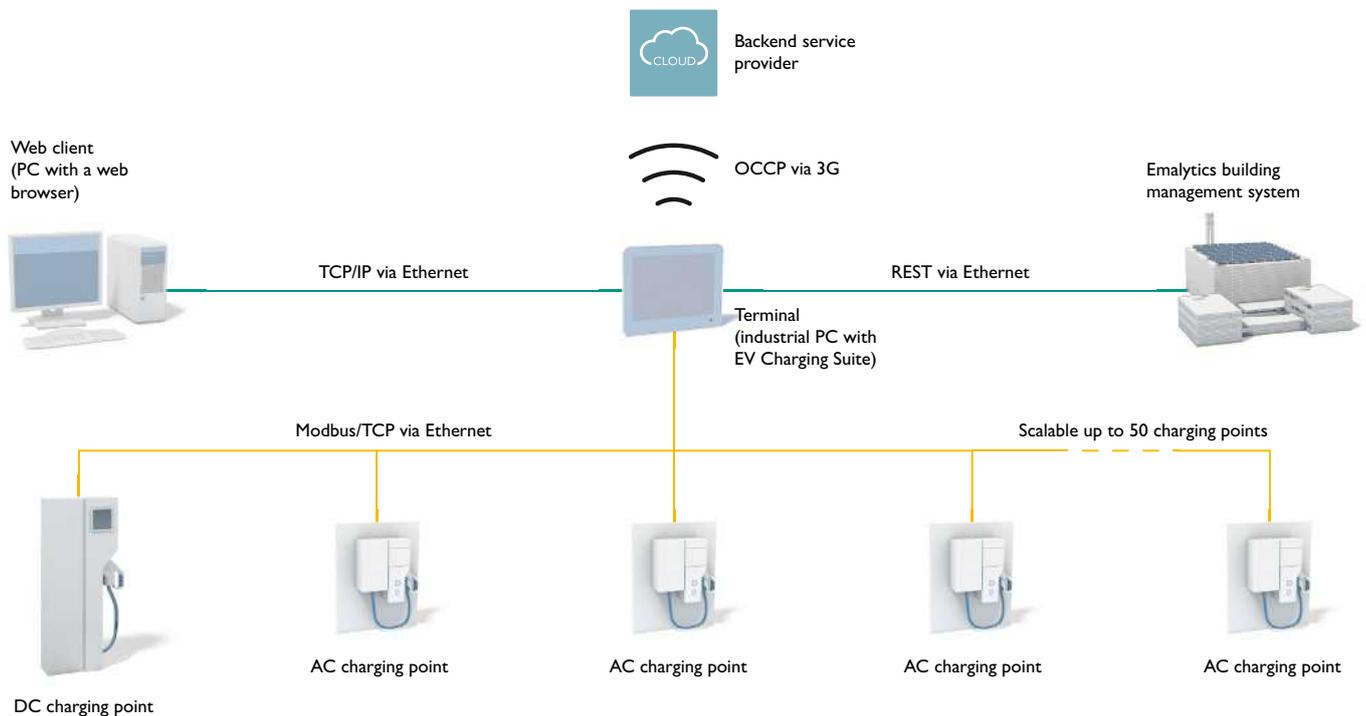
Depending on the type of charging and the range of functions required, we offer compatible charging controllers as well as additional components for setting up your

charging points. You connect them to the industrial PC via Ethernet.

## Interested?

With many years of experience in this field, we support you in setting up and networking your charging stations and connecting them to backend service providers and building management systems.

Submit an inquiry via:  
[phoenixcontact.com/charging-software](http://phoenixcontact.com/charging-software)



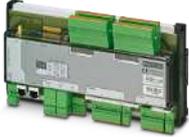
## Software licenses

					
<b>Basic license</b>	<b>For 5 charging points</b>	<b>For 10 charging points</b>	<b>For 20 charging points</b>	<b>For 30 charging points</b>	<b>For 50 charging points</b>
Type	EV-CC-S-SUITE-CP5	EV-CC-S-SUITE-CP10	EV-CC-S-SUITE-CP20	EV-CC-S-SUITE-CP30	EV-CC-S-SUITE-CP50
Order No.	1153509	1086929	1153508	1086921	1086920
<b>Upgrade license</b>	<b>From 5 to 10 charging points</b>	<b>From 10 to 20 charging points</b>	<b>From 10 to 30 charging points</b>	<b>From 20 to 30 charging points</b>	<b>From 30 to 50 charging points</b>
Type	EV-CC-S-SUITE-UPG5-10	EV-CC-S-SUITE-UPG10-20	EV-CC-S-SUITE-UPG10-30	EV-CC-S-SUITE-UPG20-30	EV-CC-S-SUITE-UPG30-50
Order No.	1153513	1153516	1086891	1153520	1086889

## Compatible industrial PCs

		
<b>Description</b>	<b>Panel PC with 12.1 inch multi-touch display</b>	<b>Box PC</b>
Type	VL2 PPC12 1000	BL2 BPC 1000
Order No.	<a href="#">2403710</a>	<a href="#">2404777</a>
Configuration	D46/A20/I38/R26/M69/OS71/EF00/O00/S00	A21/I42/R26/M71/OS71/S00/EF00/EF00

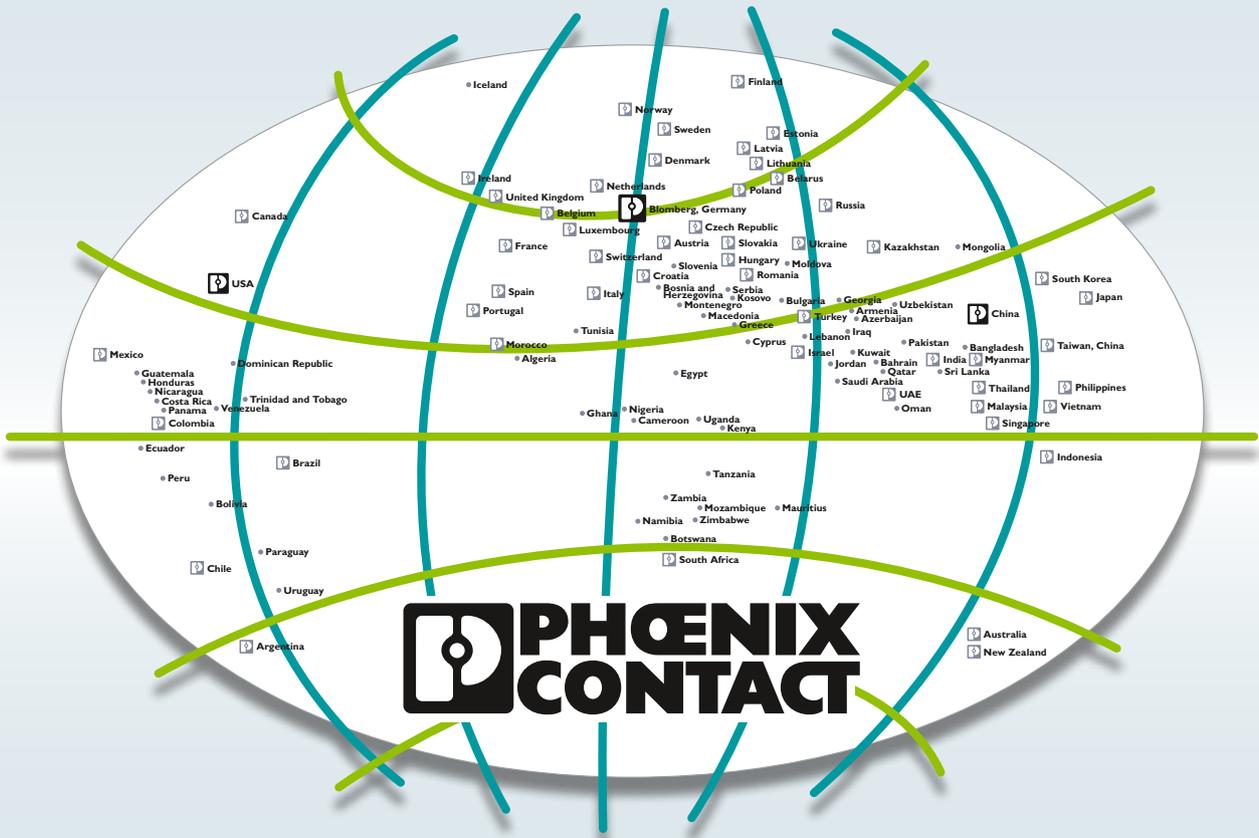
## Compatible charging controllers

				
<b>Description</b>	<b>EVCC Advanced AC charging controller</b>	<b>EVCC Advanced Plus AC charging controller</b>	<b>EVCC Advanced Plus 3G AC charging controller</b>	<b>EVCC Professional DC charging controller</b>
Type	EM-CP-PP-ETH	EV-CC-AC1-M3-CBC-RCM-ETH	EV-CC-AC1-M3-CBC-RCM-ETH-3G	EV-PLCC-AC1-DC1
Order No.	<a href="#">2902802</a>	<a href="#">1018701</a>	<a href="#">1018702</a>	<a href="#">1624130</a>

## Additional products for your charging stations

				
<b>Description</b>	<b>Charging cables and charging sockets</b>	<b>Surge protection</b>	<b>Power electronics</b>	<b>Power supplies</b>
 <b>Web code</b>	<a href="#">#2073</a>	<a href="#">#2105</a>	<a href="#">#2529</a>	<a href="#">#1930</a>

				
<b>Description</b>	<b>Energy meters</b>	<b>Communication technology</b>	<b>Terminal blocks</b>	<b>Installation material</b>
 <b>Web code</b>	<a href="#">#1267</a>	<a href="#">#0936</a>	<a href="#">#0567</a>	<a href="#">#0094</a>



## Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. With a global network reaching across more than 100 countries with over 17,600 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide variety of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. We focus on developing the fields of energy, infrastructure, process, and factory automation.

You can find your local partner at

[phoenixcontact.com](http://phoenixcontact.com)