

Media information

Designed experience – the new AMTRON® wallboxes from Mennekes

Mennekes, one of the leading suppliers of charging systems for electric vehicles, has expanded its comprehensive range of charging stations with a new generation of wallboxes. AMTRON® wallboxes are state-of-the-art with regard to technology, functionality and design.

The clever and functional design integrates a convenient cable holder. The enclosure itself acts as the cable hanger, thereby dispensing with additional hooks, rolls or other fixtures. Both fixed and portable charging cables can be quickly and simply stored in this manner.

New generation convenience: the Mennekes Charge APP

Mennekes provides a free “Charge” APP, which the user can download onto a smartphone or tablet. AMTRON® wallboxes can be linked to a network via ethernet or wifi, depending on specification. The user can see all information on the status of the charging station on his smart device. The Mennekes “Charge” APP shows the vehicles state of charge, the operating status of the wallbox, the overall power consumption and associated electricity costs incurred. The charging process be manually started, paused or stopped at any time via the remote control.

Besides remote control, three further charging modes are available through the Mennekes “Charge” APP. Both the network-controlled or time-controlled charging modes ensure that charging is only done when the most favourable electricity tariffs are available, thus directly reducing the energy costs. Alternatively with the “Home Energy Management” system, it is

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Media information

possible to set up a link to one's own photovoltaic system, in order to prioritise the usage of self-produced solar energy.

Information concerning the charged energy (kWh), the energy costs (€), the travel distance (km) and the energy costs per 100 km (€) can be presented in clear and understandable personal energy statistics. With the additional entry of vehicle data, e.g. whether a pure electric vehicle (BEV) or a hybrid vehicle (PHE) is involved, fixed monthly costs and mileage, the user is optimally informed with regard to his/her consumption values and the costs incurred at all times.

Depending on the type of vehicle, data concerning external charging, e.g., at a public charging station, as well as for fuelling a PHEV can be entered.

Moreover, the data of all charging processes, e.g. for documentation of the charging processes for the company car or the charging processes of the tenants in residential complexes, can be exported.

Therefore, regarding the use of charging stations, the smartphone- and tablet-friendly "Charge" APP raises the bar to a new level as far as comfort is concerned.

Numerous configuration options

AMTRON® wallboxes are available with the Mennekes system (Type 2). Here the customer can choose between a fixed charging cable with a Mennekes charging connector (Type 2) or else with an integrated Mennekes charging socket (Type 2) for charging with a portable cable. Alternatively the wallboxes are also available with a fixed cable incorporating the Type 1 charging connector.

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Media information

Specifically for Italy and France, the AMTRON® wallboxes are also available with the Mennekes charging socket (Type 2) with shutter function. This safety shutter is currently the only electric vehicle charging socket on the market that fulfils the safety requirements for the French and Italian grid system.

The AMTRON® wallboxes are available with charging ratings of 3.7 kW, 11 kW and 22 kW to match the various on-board charger ratings of electric vehicles on the market today. An optional integrated power meter displays the amount of electricity charged at any time.

The operating status of the AMTRON® wallboxes is visualised by clearly understandable LEDs. Operational readiness, charging, waiting time and faults are indicated by four back-lit symbols in the colours blue, green, white and red. Thus the respective operating status is clearly visible at first glance from the outside.

In many AMTRON® variants the prescribed personal protection (residual current device (RCD)) is already integrated, thus faults can be detected and rectified directly on the device. This is because these wallboxes have a multi-function button, which provides several advantages at once. It can function as a stop button to end the charging process, so that the charging cable can be detached at the vehicle and at the wallbox. In addition, for maximum availability and convenient service activities, the residual current device (RCD) can simply be turned on again at the touch of a button from the outside, and the prescribed RCD test can even be performed in the same manner, without having to open the housing. The AMTRON® wallboxes with integrated personal protection are equipped with a Type A residual current device (RCD), for single-phase devices, and with an RCD that is sensitive

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to universal currents for three-phase devices. For the variants without integrated personal protection, the button has a stop, i.e. reset function.

Innovative authorisation options

Mennekes AMTRON® wallboxes offer numerous authorisation options. The key switch can deactivate the wallbox, select one-time and continuous authorisation modes for users. For applications where a parking space is not uniquely assigned to an individual (e.g. in hotel car parks or at blocks of flats), access can be restricted for example with the use of RFID readers. Until now, such solutions have very often required higher-level IT backend systems for managing access authorisation.

AMTRON® wallboxes simplify the process. Up to 100 separate RFID card numbers can be registered directly on the wallbox controller database (whitelist), eliminating the need for an online IT management system to manage verification and authorisation.

The wallboxes can operate as an autonomous offline system.

The charging of an electric vehicle can also be initiated, paused and ended manually via remote control using the Mennekes “Charge” APP. The function is secured by PIN code. With the Mennekes “Charge” APP, the local whitelist concerning RFID authorisation is particularly user-friendly. Here, additional names can be assigned to the RFID card numbers and the whitelist can be managed in a convenient manner on a smartphone or tablet.

Accessories

The AMTRON® wallboxes extend the Mennekes product line of charging columns and wall-mounted charging stations. Because they have been designed primarily for

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installation on the wall, in the garage, underground car park, or in the parking garage, Mennekes offers suitable mounting columns and weather protection roofs for implementation in the private sector and semi-public sector. The attractive, modern mounting stands are available in weather-resistant, stainless steel and concrete versions and can be used for all AMTRON® variants.

Test devices, as well as charging cables for Mode 2 and Mode 3 charging in different versions round off the product range.

More information at www.MENNEKES.com

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Images:

Image 1: AMTRON® - designed experience



Rediscover comfort: AMTRON® wallboxes used with the Mennekes “Charge” app.

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Image 2: AMTRON® wallboxes



"Charged" with ideas: The new AMTRON® wallboxes from Mennekes combine state-of-the art functionality with cutting edge design.

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Image 3: Multi-function button



Priceless: Accessible multi-function button with three key functions: Start/stop, safety device testing and reactivation of residual-current device and miniature circuit breakers in case of a fault.

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Image 4: Type 2 with shutter



For Italy and France with charging couplers charging sockets type 2 with Shutter:
The ring in the socket is turned around 60 degrees to the left using the plug.
This opens the shutter and the plug can be plugged in completely.

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Image 5: Authorisation



Flexible: Up to 100 users can be given access to one or more AMTRON® wallboxes with personal RFID cards.

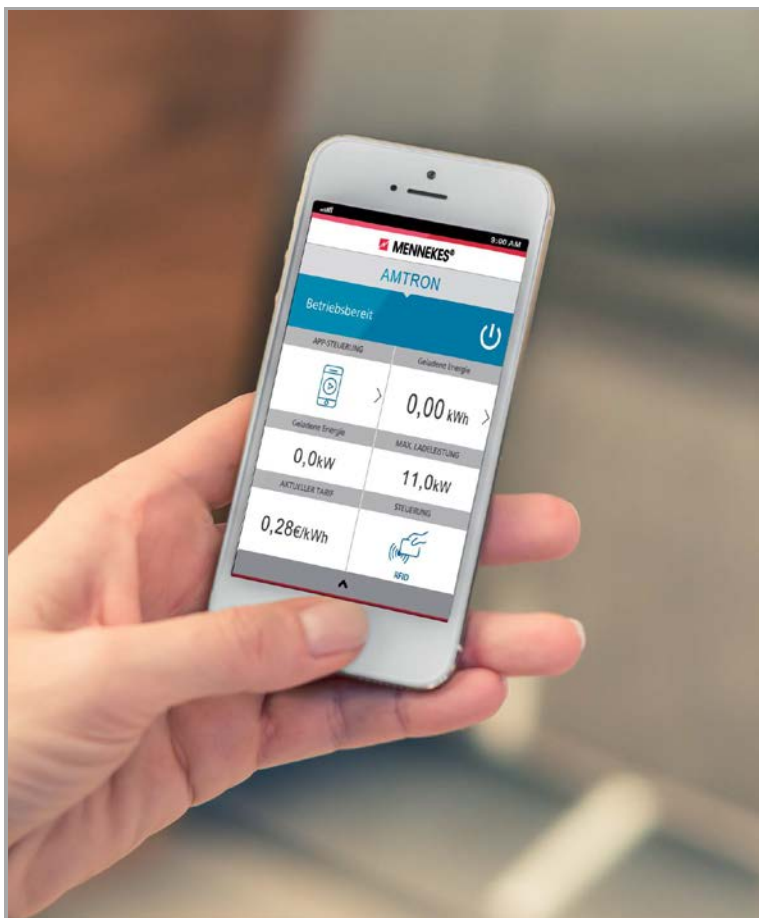
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Image 6: Mennekes “Charge” APP



With the Mennekes “Charge” APP, the user has all the information on the status of the AMTRON® wallbox at a glance on a smartphone or tablet.

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Image 7: easy solution for company cars



Together with the MENNEKES Charge APP, the AMTRON® wallboxes offer the possibility to export the data of all charging processes, e.g. for documentation of the charging processes for the company car or the charging processes of the tenants in residential complexes.

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Further images can be found on the MENNEKES website under Press section.

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MENNEKES Elektrotechnik GmbH & Co. KG was founded in 1935 and is the developer of the European standard for charging couplers as well as leading manufacturer of industrial plugs and sockets. The company has a global presence with subsidiaries and representations in more than 90 countries and employs 1,000 people worldwide. The product range comprises standardised plugs and sockets in over 15,000 different variants and designs as well as charging couplers for electric vehicles. MENNEKES takes an integrated approach towards electric mobility and develops components like charging plugs, charging cables and vehicle inlets as well as complete charging stations for commercial and private application. The solutions thus fulfil perfectly the requirements of car manufacturers, electric utilities and consumers. In the past business year, the MENNEKES Group achieved a consolidated turnover of more than 130 million Euros. More than half of the turnover is made in export. More information at www.MENNEKES.com and at Facebook, Twitter and YouTube.

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