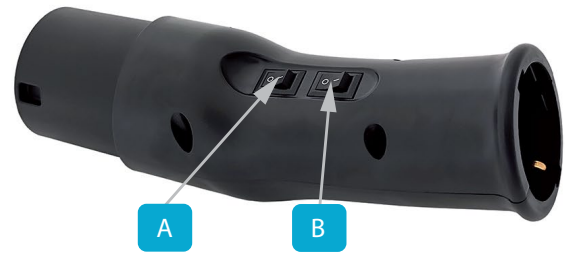


CHARGING CONNECTOR AC01+

USER MANUAL



TYPE 2 TO SCHUKO 16 A

METRON charging connector AC01+ is designed to enable charging electric devices (electric bicycles, scooters, etc) with normal Schuko (Type F) 16A plugs from EV charging stations with Type 2 (IEC 62196) sockets. It sends signals "car connected" and "car ready to charge" to the charging station thus enabling charging from connector's Schuko outlet.

Any other use is not allowed and is regarded as improper use.

Before using the charging connector, please thoroughly read this manual and follow the instructions provided therein. Please keep the manual for future use. If you are unsure about the proper usage, please contact the manufacturer or your dealer before usage.

IMPROPER USE

Improper use can lead to property damage or personal injury. In such cases, the manufacturer and retailer accept no liability. Warranty will be voided in case of improper use. You must not:

- modify/manipulate the charging connector!
- drive over the charging connector!
- draw more than 16 A (3680 W)!
- connect unsuitable plugs and cables!
- use the charging connector if damaged!

GENERAL SAFETY INSTRUCTIONS



- Carefully read this security instructions before using the product!
- Never draw more than 16 A from the charging connector AC01+!
- Children are not allowed to use the charging connector.
- Keep animals away while using the charging connector.
- Avoid liquids entering the charging connector. Never use the charging connector if the socket or plug are wet.
- Only connect undamaged, designated and labelled plugs & cables to the charging connector.

SYMBOLS USED

The following symbols are used in this manual and on the product:

	This symbol indicates a danger with a risk of causing serious injury or death or damage if not avoided.
	CE symbol is a mark of conformity indicating that a product complies with European Union directives and regulations.
	This symbol signifies the requirement for separate disposal of electrical and electronic waste. See chapter disposal.
	Please read the manual before using the charging connector.
	Risk of electric shock due to dangerous voltage when used incorrectly.
Tamb	Do not use and store the charging connector below or above the specified temperature.

GET STARTED



- Check charging connector before use. Do not use the charging connector if damaged!
- Socket will provide a high voltage (230 V)!
- Never draw more than 16 A from the charging connector AC01+!
- Do not use the charging connector if the socket and plug are wet.
- Only connect undamaged, designated and labelled plugs & cables to the charging connector.
- Avoid using multiple adapter / power strips as they can lead to overload.
- Don't unplug before turning off.
- Always operate in the specified order of steps.

1. Plug charging connector to charging station Type 2 socket.
2. Turn-on Switch [A] [see picture above] => charging station gets the message "car connected" and locks the connector (if it features plug lock function).
3. Turn-on Switch [B] [see picture above] => immediately after switching on switch [B], charging station gets the message "car ready to charge".
4. Then charging station energizes its relays/contactors and you have voltage/power on connector's Schuko outlet.

When you want to stop charging, use the opposite procedure; first turn-off second switch [B] and then first one [A]. This will de-energize the connector, unlock the connector at charging station socket and let you pull out the connector.

Some stations do not require this procedure to be followed, they start charging when you plug in the connector with both switches at "ON" position.

WiFi METRON CONNECTOR CONTROL APPLICATION

AC01+ charging connector has a built-in WiFi access point with web server what enables users to connect to it wirelessly by any smart phone, tablet or laptop PC. As there is a web server inside with preloaded METRON Connector Control application **you don't need to install any additional program/application** on your device because the METRON Connector Control runs in your favorite web browser (Google Chrome, Microsoft Edge, Mozilla Firefox,...) on any operating system (Google Android, Apple iOS, Microsoft Windows, Huawei HarmonyOS, Linux,...) you have on your smart phone, tablet or laptop PC.

The web-based METRON Connector Control application functions are:

- User can LOCK the AC01+ to the charging station socket what prevents theft of AC01+ and intentional/unintentional charging interruption.
- Informs the user about real time charging current, charging power, charging energy and charging time.
- Allows the user to change WiFi password and WiFi name (ssid).
- There is also a complete AC01+ User Manual.

In order to connect to the AC01+ via WiFi you need to do the following:

- Insert charging connector to the charging station socket and energize it as described in the GET STARTED chapter above.
- Go to WiFi menu in your smart phone, tablet or laptop PC and search for WiFi networks.
- Find **METRON-AC01+** network and connect to it; enter the WiFi password **12345678** (this is default - it is recommended that you change it in the METRON Connector Control application).
- Scan QR code you find on AC01+ and follow the link; it will open your default web browser and launch the Metron Connector Control automatically; OR open your favorite web browser and go to the following IP address: **192.168.4.4**
- The METRON Connector Control application will be loaded immediately.

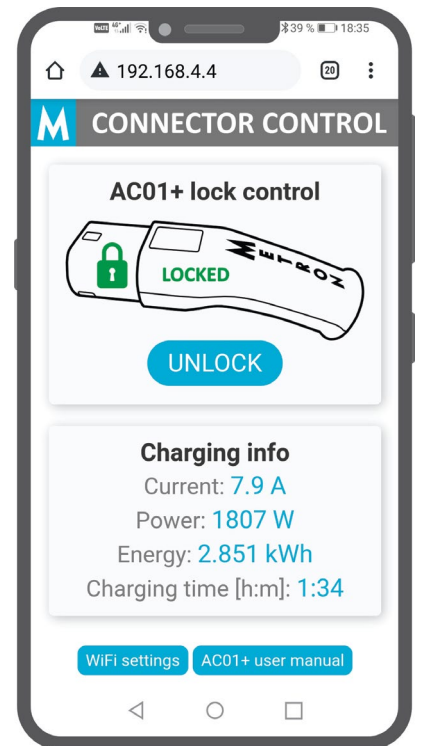
Up to 5 users (devices) at a time can be wirelessly connected to the AC01+ charging connector and all connected devices will automatically receive all the latest data; for example, if one user "locks" the AC01+ all others will see that on their screens.

If you forget the WiFi password you've set, you need to do the following:

- Insert AC01+ to the charging station socket and energize it as described in the GET STARTED chapter above.
- There is a small hole between Switch [A] and Switch [B] and under this hole there is a "WiFi reset button". Insert a needle (or something similar) into this hole and press the "WiFi reset button" for at least 1 second; WiFi name (ssid) is reset to default value **METRON-AC01+** and forgotten password is reset to default value **12345678** but it's not yet activated (theft protection); otherwise experienced thief would just press reset, use default WiFi password to enter the application, UNLOCK the AC01+ and steal it).
- To activate default WiFi password (and default WiFi name) you need stop charging and then start charging again (as described in the GET STARTED chapter).

PRIVACY POLICY

METRON's Connector Control application is **NOT collecting any data** of any kind. That means nobody can know who, when, where, for what purpose, etc. is using the AC01+ charging connector. If you have questions or comments about this Privacy Policy, please contact us.



TECHNICAL SPECIFICATIONS

Maximum continuous current	16 A
Ingress protection rating	IP44 [moisture proof]
Operating Ambient Air Temperature Range	from -30°C to +50°C
UV resistance	YES
Schuko socket overtemperature protection	YES
Supported WiFi standards	IEEE 802.11b/g/n
WiFi speed	up to 150 Mbit/s
WiFi signal range	up to 50 m
WiFi security	WPA2
Dimensions [Ømax/Length]	58 mm / 184 mm
Weight	260 g

Schuko socket overtemperature protection function description:

AC01+ connector has built-in a very high quality Schuko socket that won't overheat at continuous current of 16A. But if Schuko plug that is inserted in connector's Schuko socket is bad quality it can dissipate a lot of heat. This heat is then detected by connector's temperature sensor and if/when it exceeds allowed temperature the connector sends a signal to the charging station to disconnect power. When it cools down the connector automatically sends a signal to the charging station to apply power back. This process can repeat endlessly. Connector does not function with charging stations that have charging cable Type 2 attached.

The charging connector is IP rated 44, which means that the charger connector is waterproof during usage. Nevertheless, please avoid the plugs to get wet and do not use the charging connector if the plugs are wet.



- Never draw more than 16 A from the charging connector!
- Do not use if plugs/sockets are wet!

CLEANING & STORAGE

Use only a dry or damp cloth for cleaning the unplugged charging connector. Do not use cleaning detergents. Please secure the charging connector while transporting it in your vehicle to avoid damage. Store at a dry place.



- The charging connector must be completely unplugged before cleaning!
- Avoid water getting to contact parts!
- Secure charging connector while transporting!

DISPOSAL



The symbol "crossed-out trash can" signifies the requirement for separate disposal of electrical and electronic waste. These devices may contain hazardous and environmentally harmful substances. Please take such devices to a designated collection point for the recycling of electrical and electronic equipment and do not dispose of them in regular household waste. You can obtain further information from local waste disposal services or the company from which you purchased the product.



GREEN PRODUCTION

All our products are produced in a carbon neutral way by using "Sustainable energy cycle" method. The production plant where we make charging connectors, adapters, charging cables and portable charging stations is the first fully sustainable production facility for EV charging cables. All energy needed for the heating / cooling of the building, production process, as well as for transportation of goods and employees (except deliveries of heavy materials by trucks) is produced by 2 photovoltaic power plants and stored in 4 storage batteries. Almost all of the raw materials we use (cables, plugs) are produced in EU to shorten supply routes and support local economy. [Buying our products helps developing sustainable economy.](#)

WARRANTY

METRON warrants its product to the original consumer purchaser that it will repair, or replace, any product that is determined to be defective for the following terms: **Three (3) years from date of purchase on all components.**

To be eligible for repair or replacement under this warranty, the product in question must be sent back to METRON within the warranty period and the original consumer purchaser must comply with the following conditions:

- The product thereof must not have been modified or altered in any way by an unauthorized source.
- The product thereof must have been used in accordance with the user manual.

This limited warranty does not cover:

- Damage due to improper use;
- Accidental or intentional damage;
- Misuse, abuse, corrosion, or neglect;
- Product impaired by severe natural conditions, such as excessive hail storms, lightning strikes, tornados, flooding, ice or other natural occurrences;
- Damage due to improper packaging on return shipment.

Any and all labor charges for troubleshooting, removal or replacement of the product are not covered by this warranty and will not be honored by METRON. All shipping costs regarding repair or replacement of the product is to be pre-paid by the original consumer purchaser.