

Quick guide

UK Single Phase Equalizer Guide

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Product overview

This kit consists of main components required to install an Easee Equalizer on a charging site with one or multiple circuits. All of the components are tested and guaranteed to work with the Easee Equalizer (E02-EQP). Not for use with the Easee Equalizer HAN version.

Energy Meter:

Eastron SDM120CT-RJ12

Current Transformer:

ESCT-TU16-RJ12-100A (3m length)

Cable:

RJ12 6P6C 1.5m Cable

Technical specifications

Eastron SDM120CT-RJ12

Measurements (mm): H:118 x W:18 x D:64

Voltage: 230V ac

Network frequency: 50/60Hz (± 2%)

IP-classification: IP51

Running temperature: -25°C - 55°C Primary connection: 2,5mm2 Current Input: RJ12 CT Clamp Output connection: RJ12 6P6C

Mounting: DIN-rail

Material: Self-extinguishing UI94 V-0

ESCT-TU16-RJ12-100A

Max Primary Current - 100A
Secondary Current - 100mA - RJ12
Cable Length - 3m
Measurements - 31.50mm x 29.00mm x 45.50mm
Diameter - 16mm
Running Temperature - -15C - +60C

RJ12 cable

Length: 1.5m Connector plug: RJ12 Lead cable: 6 pin

Before you start

WARNING! This product shall only be installed, repaired or serviced by an suitable competent and qualified electrician. All applicable local, regional and national regulations for electrical installations must be adhered to.

- Please check the safety instructions on the manufacturer's user guides for all the components of the kit.
- Make sure you have enough space on the DIN rail for all the components. Minimum required space is 36mm or 2 Modules
- The cable from the meter to the Equalizer can be extended up to 200m. Please use appropriate specification of cable for installation method.
- Ensure the Equalizer and the master charger(s) will be connected to the same WiFi network. The Equalizer requires connection to a suitable and secure wifi network to ensure correct operation.
- CT Clamps and Rogowski Coils must be fitted in the correct orientation to read incoming power line.
- 6A Single Pole Fuse
- Install the Easee Installer App on your phone by using the QR code below.



Installing

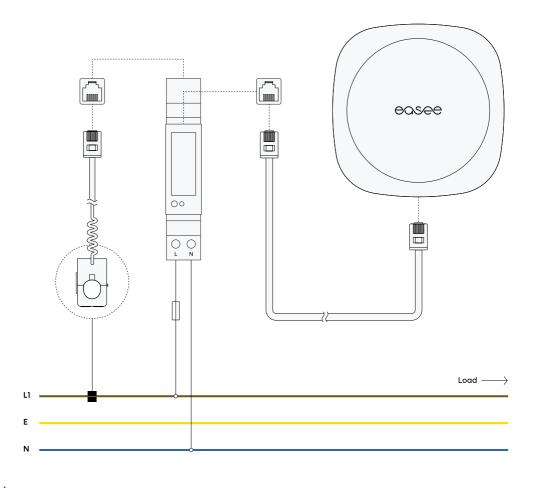
WARNING! Turn off the power before you begin the installation. Use extreme caution and follow instructions carefully.

Install the components in the distribution box according to the wiring diagram below:

___ Wiring

..... Connection

CT clamps



2 Setting up

Download the Easee Installer App via App store or Google play. To use the Easee Installer App, you must have an Easee Cloud account. If you already have an account, you can log in immediately.

If you have created a site already, then please skip directly to step 2.

1. Create new Site:

- Fill in site information.
- Select Easee as the operator.
- Input Main fuse size
- Input Circuit fuse size and name.
- Input Wifi information, if available.
- Scan the backplate and complete the site.

2. Equalizer.

Under Site Structure:

- Add Equalizer.
- Input Wifi information.
- Scan Equalizer with your phone's NFC reader.
- Connect Equalizer to the meter reader.
- Update Equalizer to at least V114 (~ 10 min).
- Set meter type → Eastron SDM
- Set main fuse limit → 100%.
- Set circuits for load balancing → Circuit (on).
- Restart the device.

Transfer ownership. At Site Overview:

- Upload to cloud.
- Invite new owner by phone number (you remain the administrator).
- Ask the customer to download the Easee app and create an Easee cloud account. If an account already exists, the customer needs to accept the ownership request which is sent via email

Troubleshooting

Is the charger already installed? If the charger is already installed you will need to be invited as an administrator to access it in the Easee Installer App.

- Do this by asking the site owner to invite you as an administrator via the Easee Cloud, or
- Add the charger (master) to the users Easee app with the serial number and pin code.

Then you will automatically become an administrator and will find the site under "update existing site" in the Easee Installer App. Note that you must be logged in with the same account in the Easee app as for your Easee Installer App for this step to work.

I can't connect the Equalizer to the Wi-Fi via the Easee Installer App. If you are unable to connect the device to the Wi-Fi, check the following:

- The name and the password of the Wi-Fi.
 Be sure to check lowercase and uppercase
 letters as well as special characters. If you have the option to rename the Wi-Fi, only use
 letters and numbers, avoid special characters and spaces.
- The Wi-Fi must have a password, it can't be an open Wi-Fi.
- Connected on 2.4 GHz Wi-Fi (5 GHz is not supported).
- Firewalls or login portals blocking internet access
- Make sure that the Equalizer has good coverage for Wi-Fi. Change location of the Wi-Fi router and Equalizer. Open any garage doors and the facade meter cabinet to get as good coverage during the connection process as possible. Alternatively, install a Wi-Fi extender (Mesh).

How to connect the Equalizer via the charger.

If you do not succeed in connecting the Equalizer to Wi-Fi via the Easee Installer App, you can try moving the Equalizer towards the Charging Robot until the box displays a green light.

- Ensure that the charger is connected to the same Wi-Fi that you want the Equalizer to be connected to. This is due to the name and password being copied over when you scan the devices.
- If the Wi-Fi is not already available, connect the Charging Robot via the Easee Cloud, the Easee app or via the Charging Robot's Wi-Fi interface.

I am receiving negative values on my meter reader. Check the following:

- The arrows on the Rogowski coils or CT clamps are connected in the right direction.
- That the connection is correct from the fuse to the meter reader.
- If the site has solar cells, it can show negative values during production.

Equalizer is offline. Do the following steps:

- Check that the Charging Robot is connected to Wi-Fi.
- Disconnect the Equalizer from the meter reader until it stops flashing.
- Hold the Equalizer against the Charging Robot until it lights up green.
- Reconnect the Equalizer to the meter reader.
- If the Equalizer does not appear in the Easee Installer App, the signal is too weak.
 Reposition Wi-Fi or Equalizer to get a stronger signal. If necessary, install a Wi-Fi extender (Mesh) for portable connection.

How to make sure the Equalizer is displaying the correct values? Do the following steps:

Via the Easee Installer App, go to Site Overview → Site Structure → Equalizer, you can click on the product card and get the same visual image of the Equalizer that the customer gets via their Easee app.

Here you can confirm that the same ampere values are displayed as on the Eastron meter. Ampere values can be found on the Eastron meter by clicking on [U/I] and scrolling to ampere values (A).



Ampere values screen

LED colours meaning

- White, fast flashing Booting
- White, breathing every 10s Normal operation
- Red / white, switching No WiFi added³
- Red, flashing No data from power meter⁴
- Red, breathing every 10s Error⁵
- Purple, breathing every 10s Offline operation⁶
- Touch the Easee logo in the middle to check power consumption:
- Blue, fast flashing High power consumption Blue, slow flashing - Low power consumption Count the flashes for percentage -1 flash (10%), 2 flashes (20%), up to 10 flashes (100%)
- Hold the Easee logo for 3 seconds to check connectivity. You will see 2 flashes:

1st flash - Easee Link RF status7 2nd flash - WiFi status

- Green Connected
- Red Not connected

³Use the Easee App to set up the WiFi.

⁴Contact your utility company to activate the HAN port.

⁵ Go to http://easee.support.

⁶Check your internet connection.

⁷After booting, it can take a few minutes before Easee Link

RF™ status flashes green.

Assistance

Make sure to have the serial number available for the Easee Home and Equalizer to receive more rapid assistance.

Easee Customer Excellence Telephone: 02039946725 Email: support@easee.com THIS DOCUMENT CONTAINS INFORMATION THAT IS SUBJECT TO CHANGE WITHOUT NOTICE.

The latest version of this publication can be downloaded at http://easee.support

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Illustrations of the product and user interface are exemplary and may differ from the actual appearance.

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