

TROUBLESHOOTING

The Status LED is not lit and the device is shown as disconnected on the app

This means that the device is not connected to the Cloud

- Check that the device is **powered on**
- If **not** powered on, cut the power and check your wiring according to the diagram in page 1. **Power on** the device and set it up (page 2).
- Check your **Internet connection**. If you cannot access the Internet with a different device on the same Wi-Fi network check with your ISP
- Check that the server is accessible at <https://hamsystems.eu> with your browser. If it is not, check again in 5 minutes or refresh the app / webpage
- Try restarting the device with the **Restart Button** and / or with removing and re-attaching the power.
- Check if the device **is connected to your Wi-Fi router / Access Point**. If the device does not appear to be connected, then repeat the setup procedure and make sure that the Wi-Fi name and password are correct. The device may also need to be whitelisted depending on your network configuration. Note that the device and the app use the ports 9001 and 9002

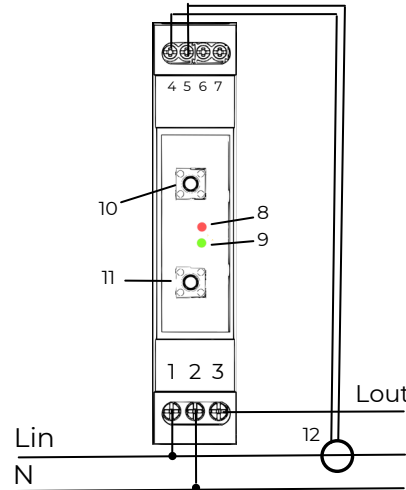
The device does not respond to manual control via the on/off button.

- Check that the device is powered on
- If not powered on, cut the power and check your wiring according to the diagram in page 1.
- If the device controls a din rail power relay, then check that the device is correctly interfaced to the rail power relay.
- Try restarting the device.

More information about the installation of our devices, their capabilities and the use of our platform can be found at <https://hamsystems.tawk.help/>

This product is in compliance with the **Radio Equipment Directive (RED) 2014/53/EU** and the **Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU** and carries the **CE Mark**. The complete EU declaration of conformity can be found at https://hamsystems.eu/res/doc/dinswitch_m_ce.pdf

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DinSwitchM

1. Line **IN**
2. N
3. Line **OUT**
4. **CT+**
5. **CT-**
6. **S0+ (Input)** - not together with CT
7. **S0- (Input)** - not together with CT
8. **Output LED**
9. **Status LED**
10. **ON/OFF** Button
11. **Restart** Button
12. **Current Transformer (CT)**

- **Internet connection via Wi-Fi (2.4 GHz)**
- **Remote Control** via Android/iOS app or web app
- **Easy setup**
- **Output 230VAC, 5A max**
- **Input 230VAC, <2W**

- **Energy Measurement** with **Current Transformer** or **pulse input**
- **Measuring Energy, Power, Voltage, Current, Power Factor, Reactive Power** when using the CT



SETUP

The installation must be carried out **ONLY** by qualified personnel (e.g. electricians)
In order to connect the device to your Wi-Fi network, you need to use the HAM Systems app. All the other features are also available on the Web on <https://hamsystems.eu>

1. Before wiring the device **make sure that the power is off!**
2. **Connect the device according to the wiring diagram** on the first page. The device must be installed in an electrical panel where the user does **NOT** have access. The device is **NOT** protected against overload or short-circuit conditions. An overload protection device must be used in your electrical panel.
3. Put the **Current Transformer** around the wire you want to measure.
4. **Check your connections and power up the device**
5. **Open the HAM Systems app.** If you don't have an account create one
6. **Click on (+) button** on the devices list view on the smartphone app
7. **Follow the instructions** on the app
8. If the Status LED is fully on and the device does not appear on the app, then you may also need **claim the device** to your account. Click on (+) and select the Claim Device option
9. You should now be able to **control the device on the app**

In case you are having difficulties, you can **try restarting the device** and repeating the aforementioned steps.

If you want to change the Wi-Fi network of your device, you can do so by doing the steps 5-7. You don't have to re-claim your device in this case

SAFETY WARNINGS

- **Incorrect wiring** of the device may lead to permanent damage to the device and / or sensors. Make sure your connections are correct before powering the device.
- **Do not disassemble** the device! Doing so, voids the warranty.
- In case of **loss of network**, you will not be able to monitor the real-time values of the device
- You should **not rely on the device** in such a way that puts human or animal lives at risk. You are responsible for checking the accuracy of the readings periodically.
- The device is designed for installation inside an electrical panel where access is restricted and **ONLY** done by **professionals** (e.g. electricians)

- **Do not use** the device to control the electrical power of network devices that affect the HAM device's internet connectivity, such as the Wi-Fi router.

USAGE

To use the device, visit our webapp at <https://hamsystems.eu> or search **HAM Systems** at the App Store / Play Store

Some features of the app:

- Control outputs from anywhere in the world via the Internet
- Measurement of power consumption, active and reactive power, voltage, current, power factor, frequency
- Set up time based schedules and timers
- View real time and historical output state. Generate PDF / CSV reports
- Create If-This-Then-That rules and automations
- Organize your devices with groups and floor-plans. Device sharing with other users
- Secured communications with TLS

The **Setup button** is used during the setup process to pair the device to your Wi-Fi network
The **Restart button** restarts the device, similar to power cycling

TECHNICAL SPECIFICATIONS

Rated Voltage	230 VAC
Output	1x 5A / 230VAC (max)
Input (for measuring)	Via CT (80A/80mA) or via pulse S0 Via CT (max 80A): Energy / Power / Current /Voltage / Power factor / Frequency
Measurement	Via Pulse input: Energy / Power (approximately)
Environmental conditions	-10°C to 55°C
Dimensions	1 DIN Rail Module , width 17.5mm
Enclosure Material	ABS UL 94 V-0
Communications protocol	Wi-Fi IEEE 802.11 b/g/n 2.4Ghz Bluetooth Low Energy