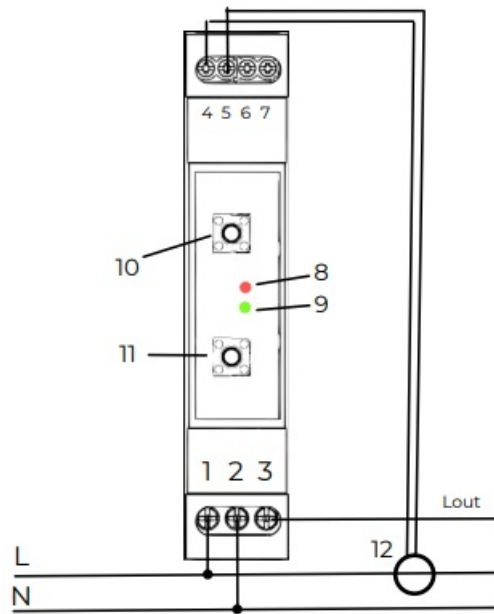# HAM Systems DIN Rail Wi-Fi Switch User Manual

Contents

HAM Systems DIN Rail Wi-Fi Switch

PRODUCT FEATURE

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).

Dimensions

- 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

- Before wiring the device make sure that the power is off!
- 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.
- Put the Current Transformer around the wire you want to measure.
- Check your connections and power up the device
- Open the HAM Systems app. If you don't have an account create one
- Click on (+) button on the devices list view on the smartphone app
- Follow the instructions on the app
- 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
- You should now be able to control the device on the app

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)

USAGE

To use the device, visit our web app at **https://hamsystems.eu** or search HAM Systems at theApp Store/ PlayStore

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

TROUBLESHOOTING

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

- Check that the device is powered on If not powered on, cut the power and check your wiring according 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 reattaching 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 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/dinswitchm_ce.pdf**

TECHNICAL SPECIFICATIONS

Rated Voltage	**230 VAC**
Output	**1x 5A / 230VAC** (max)
Input (for measuring)	Via **CT** (80A/80mA) **or** via pulse **SO**
Measurement	Via **CT (max 80A):** Energy / Power / Current /Voltage / Power factor / Frequency Via **Pulse input:** Energy / Power (approximately)
Enviromental 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

Documents / Resources
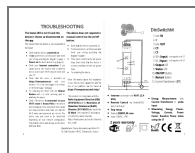
HAM Systems DIN Rail Wi-Fi Switch [pdf] User Manual
DIN Rail Wi-Fi Switch, Rail Wi-Fi Switch, DIN Wi-Fi Switch, Wi-Fi Switch, Switch

References

- 🔴 **HAM Systems | Home Automation and More**
- 🔴 **HAM Systems Help Center**