GAUGER

DIN-rail pulse counter for production monitoring over Wi-Fi and Ethernet

DOCUMENTATION

docs.hardwario.com/gauger

Configuration, firmware updates and integration, step by step.

Intended use

GAUGER is an industrial counting unit for production monitoring, mounted on a DIN rail. It counts pulses from machines on four galvanically isolated 24 V inputs (NPN or PNP) and provides the counts through a built-in Modbus TCP server, a REST API and a web interface, over Wi-Fi or Ethernet.

ACCESSORIES AND SOFTWARE

The unit needs a DC supply of 9 to 28 V and a Wi-Fi antenna on its SMA connector. It is configured in a web browser; no app or cloud account is needed.

Safety

- Read this manual before installing the device and keep it for later reference.
- Use the device only for its intended use and within the operating conditions given in this manual.
- Do not modify the device beyond what the documentation describes. Do not use a visibly damaged device.
- The device is not designed for potentially explosive atmospheres.
- Install the unit on a DIN rail inside a closed cabinet.
- Supply it from a DC source of 9 to 28 V and apply at most 28 V DC to its inputs.
- Change the password of its Wi-Fi access point and set a password for the web interface at the first setup.
- Keep a distance of at least 20 cm between the device and people while it operates.

First start

1. Mount the unit on the DIN rail and wire the inputs to the input terminal block: a positive and a ground pin for each input.
2. Connect the DC supply to the power terminals. The LED lights while the unit starts, then blinks briefly while it runs; rapid blinking means an error.
3. Over Ethernet, give your computer an address in 192.168.255.0/24 other than .1 and open 192.168.255.1. Over Wi-Fi, join the access point `hardwario-gauger-…` and open 192.168.254.1.
4. In the web interface, set the network, the inputs and the passwords. Modbus TCP listens on port 502.
5. To reset the configuration, hold USER while you press RESET, and release USER when the LED blinks rapidly. The counters are kept.

Technical data

Power supply	9–28 V DC, typically 1 W
Inputs	4 × galvanically isolated, NPN or PNP, threshold 12 V, at most 28 V DC
Operating temperature	−20 to +70 °C
Dimensions	80 × 90 × 33 mm
Enclosure	ABS, for a DIN rail
Antenna	SMA connector

Radio equipment

The device operates in the following frequency bands:

INTERFACE	FREQUENCY BAND	MAXIMUM POWER
Wi-Fi IEEE 802.11 b/g/n	2400–2483.5 MHz	19.5 dBm

Batteries

The device contains no battery.

Disposal and take-back

The crossed-out wheeled bin on the product or on its packaging means that at the end of its life it must not be disposed of with unsorted municipal waste: it must be collected separately.

THE DEVICE

Hand the device in free of charge at a take-back point for electrical equipment, or return it to HARDWARIO.

WHY IT MATTERS

By handing it in you enable re-use, recycling and other recovery of its materials. Electrical equipment contains substances (metals, flame retardants) that harm the environment and human health when littered or put into unsorted waste.

LESS WASTE

You help prevent waste by using the device for its full service life and keeping its firmware up to date.

TAKE-BACK POINTS

Take-back of electrical equipment and batteries
hardwario.com/legal/take-back

Declaration of conformity

EUROPEAN UNION

CE

Hereby, HARDWARIO a.s. declares that the radio equipment type **GAUGER** is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

Declarations of conformity
hardwario.com/resources/declarations/#gauger

The device also complies with Directive 2011/65/EU on the restriction of hazardous substances (RoHS).

GREAT BRITAIN

UK CA

Hereby, HARDWARIO a.s. declares that the radio equipment type **GAUGER** is in compliance with the relevant statutory requirements. The full text of the declaration of conformity is available at the following internet address:

hardwario.com/resources/declarations/#gauger

UK IMPORTER

HARDWARIO LTD
10 John Street, London WC1N 2EB, United Kingdom

Installation record

SERIAL NUMBER

VARIANT / ORDERING CODE

INSTALLED ON

LOCATION

INSTALLED BY

NETWORK / SERVER

NOTES

HARDWARIO

MANUFACTURER

HARDWARIO a.s.

U Jezu 525/4
460 01 Liberec
Czech Republic

www.hardwario.com
ask@hardwario.com

The type designation and the serial number are given on the product label.

For products placed on the market from December 11, 2027, HARDWARIO provides free security updates for at least five years from placing on the market (Regulation (EU) 2024/2847).