

Ausweis Device Installation Manual

About this Manual

This Manual describes how to install, connect, and use the controller for the access control service Ausweis.io.

About the Ausweis Device

Ausweis Device is a controller that makes any electric lock smart to provide you with a universal, easy-to-use, and secure mobile access to any immovable property.

Ausweis Device can manage access to:

- Doors
- Door phones
- Garage doors
- Turnstiles
- Lifting gates
- Access control systems (ACS)

Ausweis Device can be used as a stand-alone mobile access control system or in combination with any other ACS.



IMPORTANT!

Please read this manual carefully before connecting the controller and follow all the steps and safety measures described below. Ausweis.io is not liable for any injury or damage to property caused by incorrect installation or operation in violation of this Manual.

1. ASSEMBLY

Step 1: Preparation

Make sure the box contains all the items listed below:

- Ausweis Device
- NFC tags
- Installation Manual
- Warranty Certificate
- Screws (ST3.9X22)
- 2 RFID reader connectors

First, choose an appropriate place for the installation of your Ausweis Device (it is designed for indoor installation in the premises to which access will be controlled through Ausweis.io). *If the device is intended for outdoor installation, (e.g. a lifting gate), it is recommended to cover the board with a protective coating or place the board in a sealed plastic housing (make sure WiFi can pass through the housing).* The device should preferably be located close to the door and within WiFi coverage.



IMPORTANT!

- *Do not attempt to modify or repair the device yourself.*
- *Do not connect third-party devices to your Ausweis Device unless listed in this Manual.*
- *The installation of your Ausweis Device requires some technical background and relevant skills. We do not recommend you to allow unqualified people to install the device. Please contact a specialist who has experience in performing electrical installation work. For the list of recommended installers please visit www.ausweis.io.*

Step 2: WiFi coverage

If you want to use Ausweis Device online, make sure it is covered by a stable WiFi signal (we recommend you to use this option to enjoy all the features and benefits offered by Ausweis.io).

When no WiFi is available, Ausweis Device operates offline (through the built-in WiFi Direct module), but the functionality will be limited.

Step 3: Connecting the device

Recommended mounting tools and equipment:

1. A drill
2. An electric drill
3. A pencil and measuring tape
4. Multiple cable (preferably 22/4 Gauge AWG Alarm Security Wire Cable)
5. A voltage meter (e.g. multimeter).



NOTE!

- *To connect the device safely, make sure all the elements are de-energized.*
- *Before drilling holes to install your Ausweis Device, make sure the place you have chosen is free from electrical wiring, cables or other communications.*

Steps of the connection process:

- 1 Open the housing of the device with a screwdriver. The disconnection opening is located on the lower lateral side of the housing.
- 2 Using the back cover of your Ausweis Device as a template, do the layout and drill two holes on the wall where the device is to be installed.
- 3 Bring two cables from the power supply unit to the controller (Ausweis Device connects to the power network through the power supply unit only).
- 4 Bring two cables from the actuator (electric lock) to the controller.
- 5 Secure the back cover of the controller on the wall.
- 6 To switch cables, follow the flowchart in Annex 2 to this Manual depending on the type of your actuator. The layout of terminals is shown on the terminal block on the Ausweis Device board (+ V, GND, DOOR SENSOR, COM1, NO/NC R1, COM2, NO/NC R2). Connect the wires of the power supply unit and actuator to the corresponding connectors on your Ausweis Device.
- 7 Secure the front cover of the controller.
- 8 Lay cables in the wall.
- 9 Switch on the power supply unit. If installed correctly, the indicator on the front panel (top cover) lights up white.
- 10 The Ausweis Device Controller is now ready for registration in the Ausweis mobile app (available for iOS and Android).



IMPORTANT!

- *We recommend to use the Ausweis Device with additional unlocking mechanisms, e.g.:*
 - *An emergency button connected to the actuator of an electric lock, or*
 - *The possibility to unlock an electromechanical lock by means of a mechanical key.*

2. REGISTRATION OF YOUR AUSWEIS DEVICE THROUGH THE APP.

Step 1: Create an account in the mobile app

If you do not have the Ausweis mobile app installed, download it from the AppStore or [Google Play](#). When creating your app account, please use your current email address and the phone number you have access to.

Step 2: Add a lock

Once the sign-in process has been completed, you can add your new lock. First, go to MY LOCKS and click on the "+" button in the upper right corner of the screen. Then follow the step-by-step instructions:

Android users: Choose your Ausweis device from the list, lock type and operation mode and enter the name, address and mode (online or offline).

IOS users: Scan the QR code on the Ausweis Device board.

Please make sure you have access to a secure Internet connection while registering the lock.

After registering your Ausweis Device, you will be connected to a free tariff plan and get a few free e-keys that can be shared with your close family or the people you trust. You can change the tariff plan in the settings of your account.

Step 3: Test your Ausweis Device

Check your device by tapping the green indicator on it or by opening the lock through the Ausweis.io mobile app. The lock opens immediately.

Step 4: Set your Ausweis.io service

The detailed Ausweis.io User's Guide and the instructions on how to connect to alternative unlocking methods (NFC tag, QR code, and RFID readers) are available at <https://www.ausweis.io/en/support/>

3. WARRANTY AND MAINTENANCE

The warranty is valid for 24 months since the first registration of Ausweis Device provided all the instructions and recommendations are duly followed.

Your Ausweis Device does not require any special maintenance. The software is automatically updated when the device is online.

4. AUSWEIS.IO SUPPORT

<https://www.ausweis.io/en/support/>

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
 - Increase the separation between the equipment and receiver.*
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. --*
- Consult the dealer or an experienced radio/TV technician for help*

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.

Specifications Ausweis Device

Acceptable usage	Indoor use
Frequency range	2.4 GHz
Antenna direction diagram	Circular pattern
Type of installation	Laid-on device
Motion detector	Laser rangefinder, up to 2 m, 940 nm, class 1
Actuating element	Solid-state relay
Power supply	+5.. +24 V
Peak load current	1.5 A at 24V
Relay inputs	NO, NC
Acceptable ambient temperature	-10...+40 °C
Power consumption, regular operation mode	100 mA
Ingress protection rating	IP20
Acceptable humidity	Not more than 75 %
Dimensions	90 x 49 x 14 mm
Gross weight	90 g

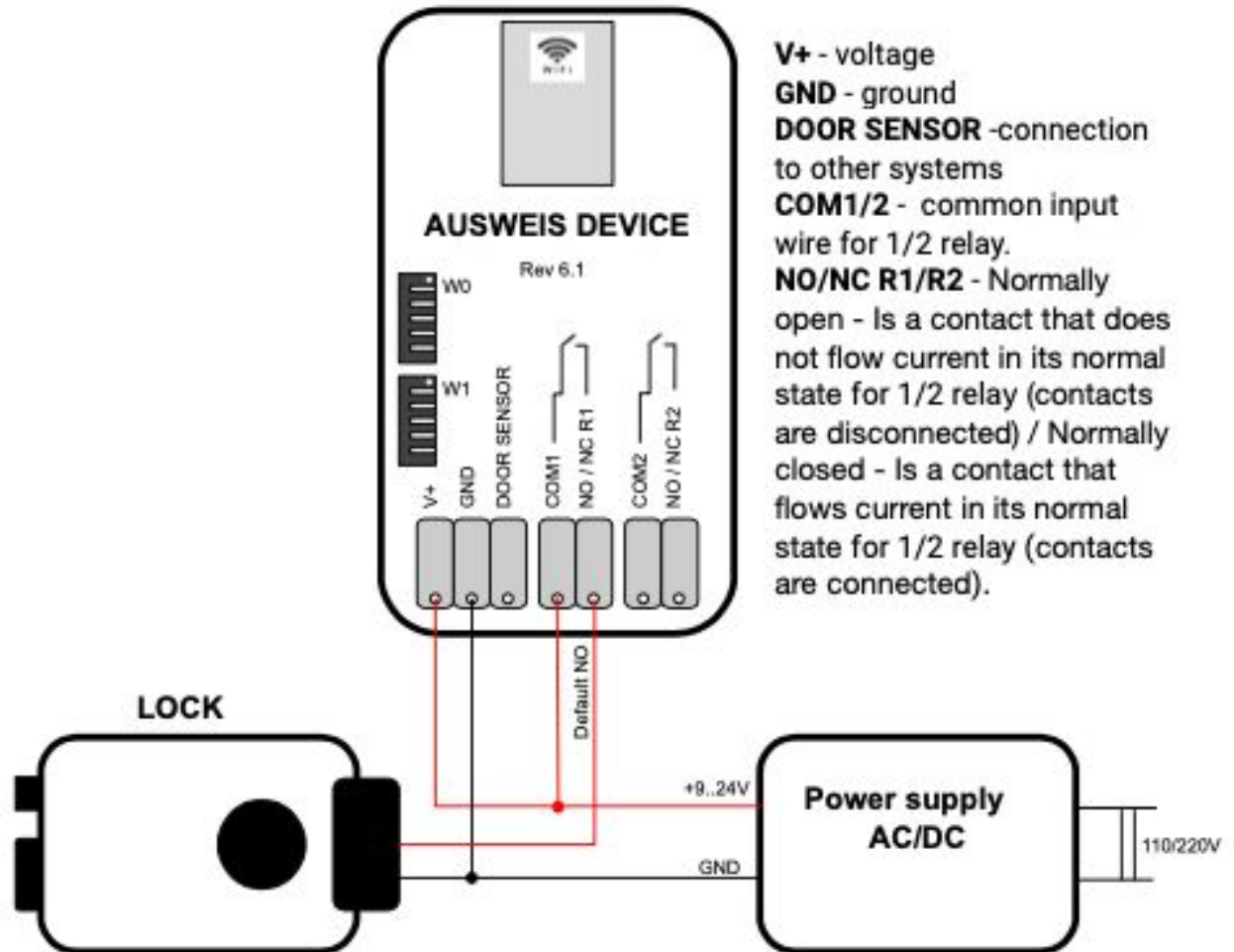


NOTE!

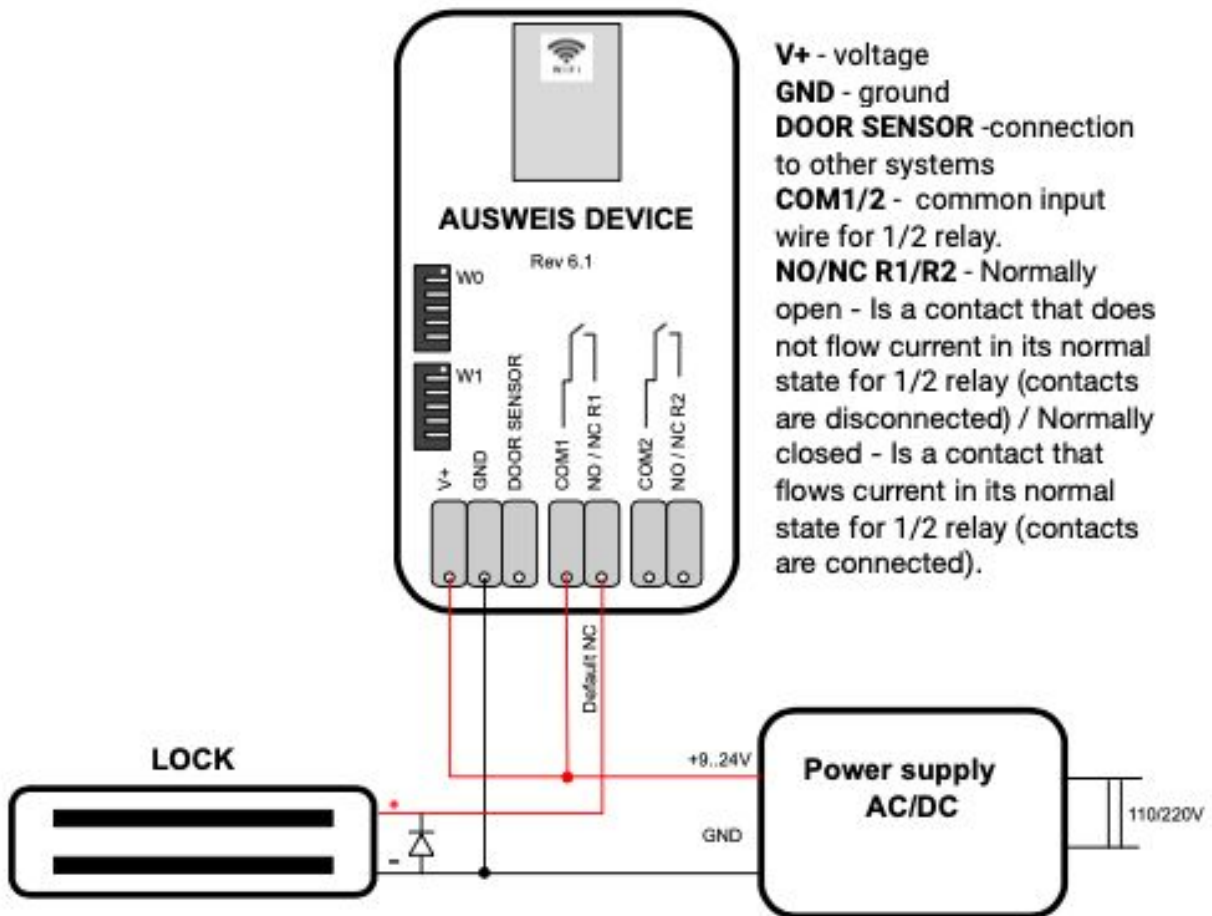
- *Ausweis Device supports the motion detection function using a solid-state laser sensor. The radiation of the sensor laser corresponds to class 1 according to the medical classification of laser radiation hazards for human. Class 1 (safe laser radiation) means that incoming radiation is not harmful to the eyes*
- *Label, class 1 laser*



**Recommended wiring diagrams:
connection to actuators**



Connection to an electromechanical lock



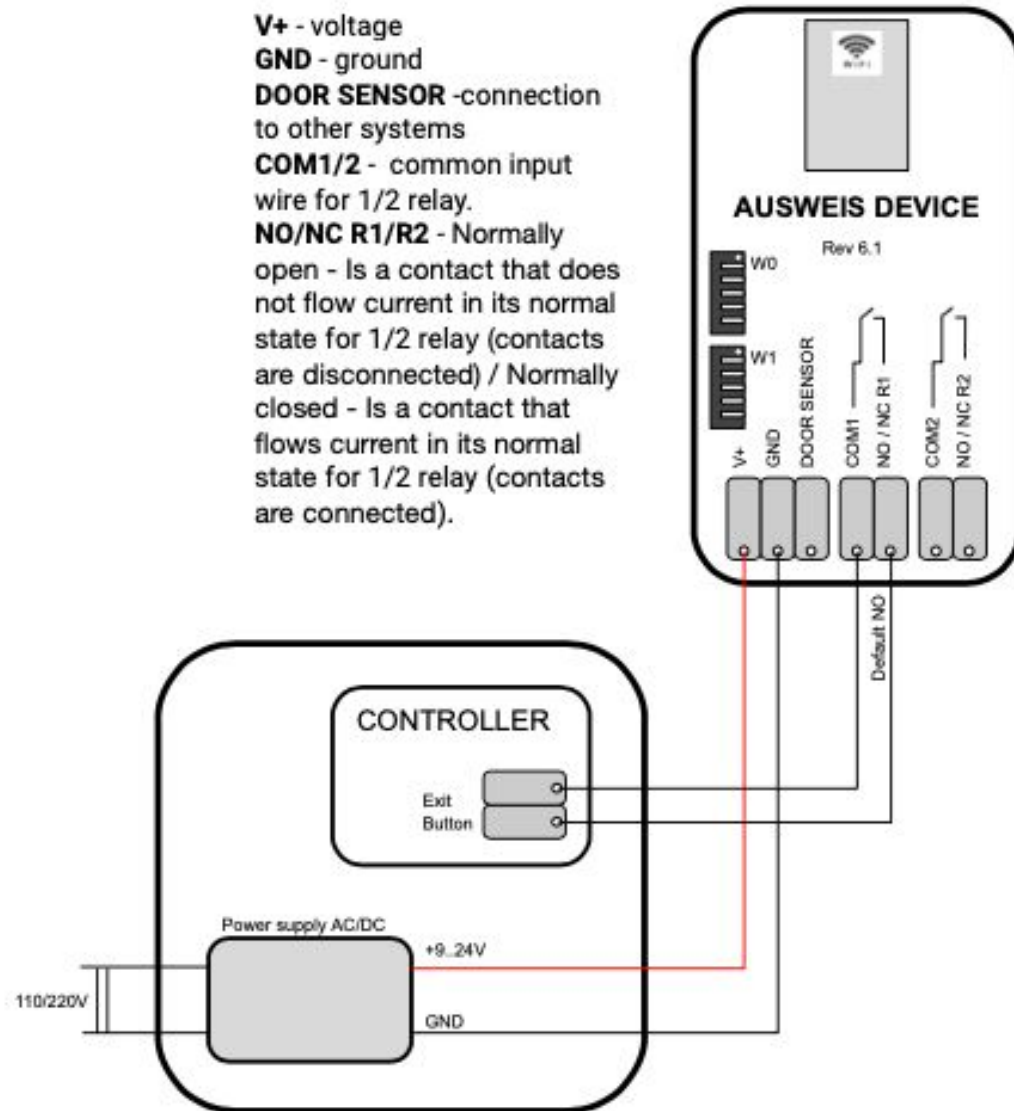
Connection to an electromagnetic lock



IMPORTANT!

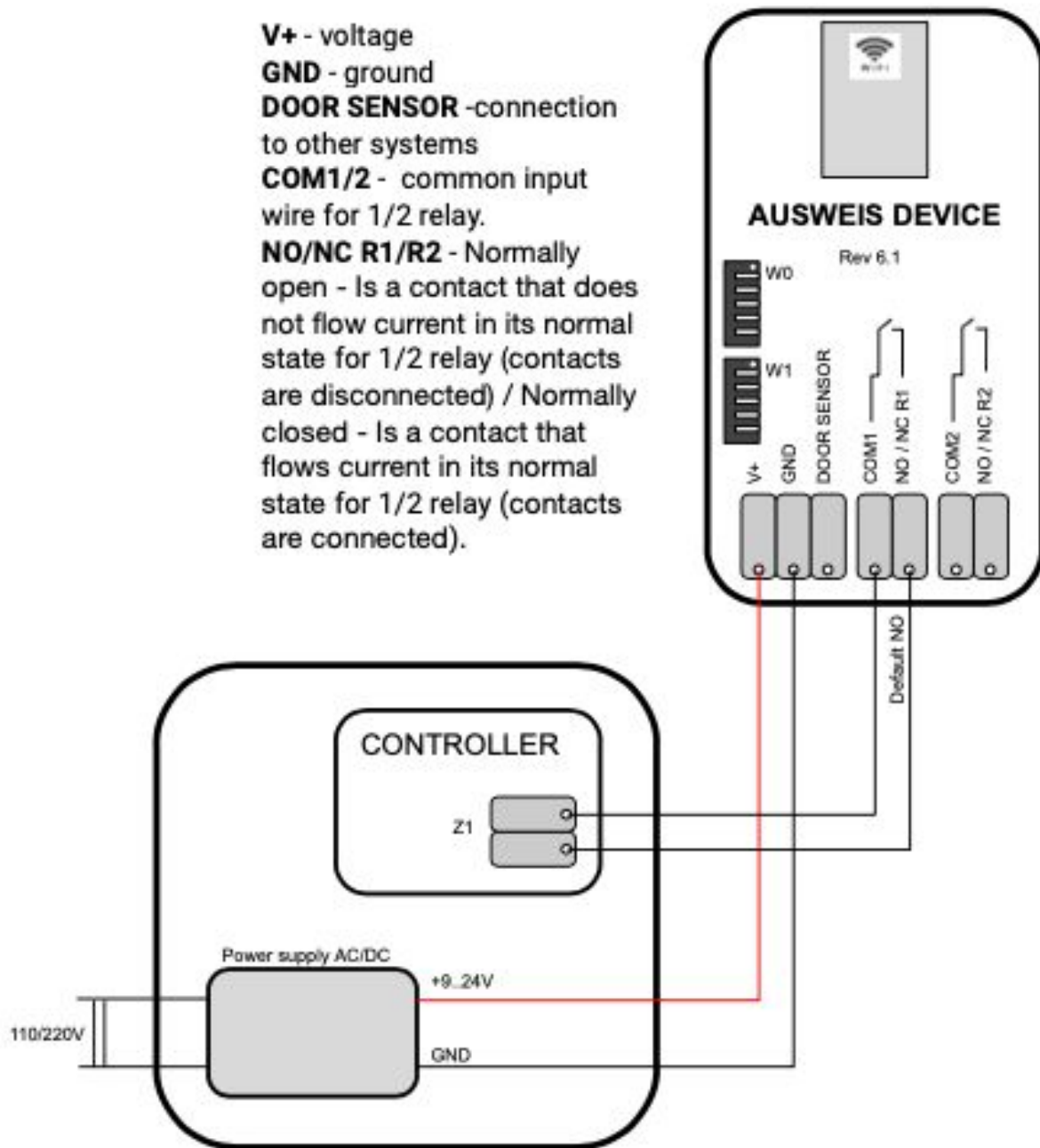
- In order to ensure electromagnetic locks are unlocked in emergency and power outage situations, we recommend to install such locks in public places without connecting them to Uninterruptable Power Supply (UPS) systems.

Recommended wiring diagrams: connection to ACS



Connection to ACS

V+ - voltage
GND - ground
DOOR SENSOR -connection to other systems
COM1/2 - common input wire for 1/2 relay.
NO/NC R1/R2 - Normally open - Is a contact that does not flow current in its normal state for 1/2 relay (contacts are disconnected) / Normally closed - Is a contact that flows current in its normal state for 1/2 relay (contacts are connected).



Connection to ACS in parallel to EXIT Button