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Remootio Pro user and safety guide

You can find our animated user-guide with step-by-step instructions on our website. Scan the QR code to access it.



Read before use

This document contains important technical and safety information about the device, its safe use and installation.

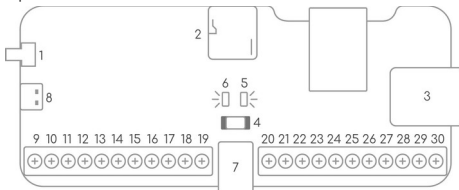
CAUTION! Before beginning the installation, please read this guide carefully and entirely and any other documents accompanying the device and any other documents and/or webpages this document refers to. The device shall be installed by a professional. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Remootio (Assemblabs Ltd) is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.

Product description

Remootio Pro is a comprehensive access control solution supporting a large number of users. It can be used to control access to electric strikes, magnetic locks, barriers, gates, garage doors. The Remootio Pro allows smartphone control of these devices via Bluetooth, Local network (WiFi and/or Ethernet) and through the internet. Remootio Pro also supports connecting external accessories, such as keypads and card readers (accessories need to have wiegand output). After installation, the device can be set up and controlled using the Remootio app.

Pinout diagram

- 1: Reset button
- 2: microSD card holder
- 3: Ethernet port
- 4: Fuse
- 5: Power OK LED
- 6: Feedback LED
- 7: Power input (barrel jack)
- 8: USB-C connector
- 9: 12V output
- 10: Relay Output 1 – NO
- 11: Relay Output 1 – COMMON
- 12: Relay Output 1 – NC
- 13: Relay Output 2 – NO
- 14: Relay Output 2 – COMMON
- 15: Relay Output 2 – NC
- 16: Relay Output 3 – NO
- 17: Relay Output 3 – COMMON
- 18: Relay Output 3 – NC



- 19: Power input + (alternative to barrel jack)
- 20: Power input - (alternative to barrel jack)
- 21: Input 1 (IN1) (for voltage-free input device between IN1 and 12V, e.g.: push button / reed switch)
- 22: Input 2 (IN2) (for voltage-free input device between IN2 and 12V, e.g.: push button / reed switch)
- 23: 12V output
- 24: GND
- 25: Wiegand_2_D0 (for secondary wiegand device)
- 26: Wiegand_2_D1 (for secondary wiegand device)
- 27: Wiegand_1_D0 (for main wiegand device)
- 28: Wiegand_1_D1 (for main wiegand device)
- 29: Wiegand Buzzer control
- 30: Wiegand LED control

Installation steps

IMPORTANT! Before you begin, **make sure that you have read this user guide carefully and entirely.**

CAUTION! Before you begin, **make sure that the circuit breaker of the gate or garage door, or the circuit breaker leading to the electric lock is switched off** and there is no power in the system.

1. Unbox device and remove plastic cover from the unit: Use a cross head screwdriver to remove the screw from the Remootio Pro unit and remove the plastic cover.

2. Connect the control output of the Remootio unit to the appropriate input terminals of your gate or garage door. Use the Relay Output 1/2 NO and COM terminals to connect the device to garage door or gate openers. When controlling electric locks, use the NO or NC connections of the Relay Outputs based on the lock type and wiring setup (Fail-Safe / Fail-Secure).

For gate and garage door openers please visit <https://www.remootio.com/pages/compatibility> and enter the make and model of your gate or garage door to search for the correct wiring diagram. If you are unsure how to wire the device into your opener, please reach out to our support team at support@remootio.com before attempting installation. If you need support into wiring your device with an electric lock please refer to our online user manual for Remootio Pro or feel free to contact our support team.

3. Sensor installation (optional): Connect the sensor to terminals 21 (Input 1) and 23 (12V) of the Remootio Pro unit and use the included adhesives to mount the sensor in an appropriate place. For gates and garage doors mount the wireless part of the sensor on the moving part of the gate or garage door in such a way that it is not further than 30mm from the wired part of the sensor when the gate or garage door is closed. For doors mount the wired part of the sensor onto the door frame and place the magnetic part onto the door itself.

5. Wiegand accessory installation (optional): Connect your wiegand accessory's D0 and D1 terminals to the Wiegand_1_D0 and Wiegand_1_D1 terminals of the Remootio Pro unit. Connect the buzzer control and led control wire of the wiegand device to the Wiegand Buzzer control and Wiegand LED control terminals of the Remootio Pro unit. You may connect another wiegand device to Wiegand2_D0 and Wiegand2_D1. The buzzer and led control terminals are shared between the two wiegand devices.

6. Insert SD card (optional): You may insert a microSD card into the microSD card slot of the device. The Remootio Pro will be able to store logs and backups on the SD card if you enable these in the app.

7. Connect ethernet cable (optional): Connect an ethernet cable into the ethernet port to make your Remootio Pro device connect to your local network and the internet. Using an ethernet cable is not required for internet access. You can also configure the device to join your Wi-Fi network from the app.

8. Assemble the Remootio Pro unit back together: Use a screwdriver to assemble the Remootio unit. Make sure that you do not damage the wires during the assembly.

CAUTION! Before you begin the next step, **make sure that the circuit breaker of the gate or garage door, or your electric lock system is switched off** and there is no power in the system.

9. Powering the device: To power Remootio Pro, simply use the included power adapter with the plug type suitable for your country. You may also try to power your device from our gate opener's power supply ports for accessories as long as they are between 5-32V DC / 12-24V AC as long as it doesn't impact the gate opener's operation and does not cause interference. You may also power the Remootio pro from the 12V or 24V DC power supply of your electric lock system.

IMPORTANT! You cannot power the device using the USB-C port. The USB-C port only has any voltage when the Remootio device is powered through the barrel jack power input (7) or terminals 19 and 20.

10. Download the app: Search for "Remootio" in the App Store or Google Play store, and download the app. Launch the Remootio app and make sure your smartphone's Bluetooth is enabled. Tap on "Set up new device" and wait until the Remootio app finds the Remootio unit and sets it up.

Important Safety Information

CAUTION! USING WITH GATES AND GARAGE DOORS! Always keep the gate or garage door in sight and far away from people and objects until it is completely closed. NO ONE SHOULD CROSS THE PATH OR STAND IN THE PATH OF THE MOVING GATE OR GARAGE DOOR.

CAUTION! USING WITH GATES AND GARAGE DOORS! The product must only be used with gate door openers that use photoelectric sensors.

CAUTION! Danger of electrocution. Mounting/installation of the device has to be performed with caution. Make sure the circuit breaker supplying power to your gate or garage door is turned off and there is not electrical power at the site of installation before installing. If you are unsure, consult a qualified electrician.

CAUTION! Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the device terminals

CAUTION! Do not use this device if it shows any sign of damage and defect

CAUTION! Do not modify the device. For safety and licensing reasons unauthorized change and/or modification of the device is not permitted.

CAUTION! Use the device only with appliances that comply with all applicable regulations. Do not connect the device to appliances exceeding the max load.

CAUTION! Connect the Device only in the way shown in these instructions. Any other method could cause injury and/or damage

CAUTION! Keep the device away from high moisture and liquids. If your device or power adaptor gets wet, carefully unplug all cables without getting your hands wet and wait for the device and adaptor to dry completely before plugging them in again. Do not attempt to dry your device or adaptor with an external heat source, such as a microwave oven or hair dryer.

CAUTION! The device can control electronic devices / electric locks / gate openers / garage door openers wirelessly. Proceed with caution! Irresponsible use of the device may lead to malfunction / danger to your life / violation of the law.

CAUTION! Only use the device with electric gate or safety standards and legal requirements of your place of use. (Such as the ANSI/UL 325 standard or 2006/42/EC legislation) Your use of the device must also comply with these applicable laws and regulations.

Specifications

- Dimensions: 132mm x 55mm x 25mm / 5.197in x 2.165in x 0.984in
- Max altitude: 2000m / 6562 ft
- Ambient temperature range: -20 °C to 50 °C / -4 °F to 122 °F
- Power supply: 12V DC nominal
- Input power tolerance: 5-32V DC, 12-24V AC
- Electrical consumption: < 2W
- Max rated switching voltage: 50 VAC, 28 VDC
- Absolute maximum switching voltage tolerance: 120 VAC, 30 VDC
- Rated load: 3A at 50 VAC, 3A at 28 VDC
- Max. RF power: < 20 dBm
- Wi-Fi protocol: 802.11 b/g/n
- Wi-Fi operational range (depending on local conditions): up to 50m / 164 ft
- Bluetooth protocol 5.0
- Bluetooth operational range (depending on local conditions): up to 30m / 98 ft

Supplied power adapter (if included)

Please see ratings on the power adapter as they may be different from the ratings specified below.

- Input: 100-240V, 50/60 Hz 0.3A
- Output: 12V 1A

Only use the power adapter supplied to power your Remootio Pro device. Please do not use any other power adapter for powering your Remootio Pro device. If you need more information about the exact specifications of your power adapter or it's declaration of conformity please contact us at support@remootio.com or info@remootio.com

Recycling and electronic waste

In some areas, the disposal of certain electronic devices is regulated. Make sure you dispose of, or recycle, your device in accordance with your local laws and regulations.

For information about recycling your device, please see our recycling guide at <https://remootio.com/recycling>



The use of the WEE symbol indicates that this product should not be treated as household waste. By ensuring this product is disposed of correctly, you will help protect the environment. For more detailed information about the recycling of this product, please contact your local authority, your household waste disposal service

provider, or the shop where you purchased this item. This product meets all related basic EU regulation requirements. The EU declaration of conformity is available on www.remootio.com/compliance. This product sold in the European Union meets the requirements of Directive 2011/65/EU on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

FCC warning

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. (FCC ID 2A6T6-RMTPRO)

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Limited warranty

The warranty for the Remootio Pro (the "Device") is provided by the entity set forth below. The provider of this warranty is sometimes referred to herein as "We". When you purchase a new Device, we warrant the Device against defects in materials and workmanship under ordinary customer use for one year (if the applicable statutory minimum warranty period is longer than one year, then for the applicable statutory minimum warranty period) from the date of original retail purchase. During this warranty period if a defect arises in the Device, and you follow the instructions for returning the device, we will, at our option, to the extent permitted by law either (i) repair the Device using either new or refurbished parts, (ii) replace that is to be replaced, or (iii) refund to you all or part of the purchase price of the Device. This limited warranty applies, to the extent permitted by law, to any repair, replacement part or replacement device for the remainder of the original warranty period or for ninety days, whichever period is longer. All replaced parts and Devices for which a refund is given shall become our property. This limited warranty applies to only hardware components of the Device that are not subject to accident, misuse, neglect, fire or damage from other external causes, alteration, repair or commercial use. For specific instructions about how to

obtain warranty service for your Device, please contact Customers service at support@remootio.com. This limited warranty gives you specific rights. You may have additional rights under applicable law, and this limited warranty does not affect such rights.

Warranty provider: If you purchased your device from Assemblabs Ltd. (e.g.: through www.remootio.com) this warranty is provided by Assemblabs Ltd. If you purchased your device from any other reseller contact the reseller you purchased from regarding your warranty.

All rights to the trademark Remootio and other intellectual rights associated with this device belong to Assemblabs Kft.

