

Access Panel Pro

User Manual

Version: V1.1 (updated 7/23/2025)

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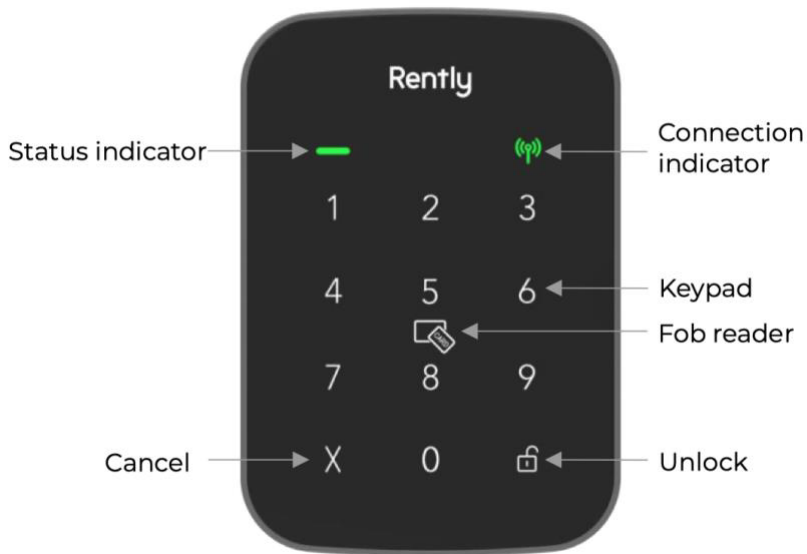
Introduction

Rently Access Panel Pro Overview

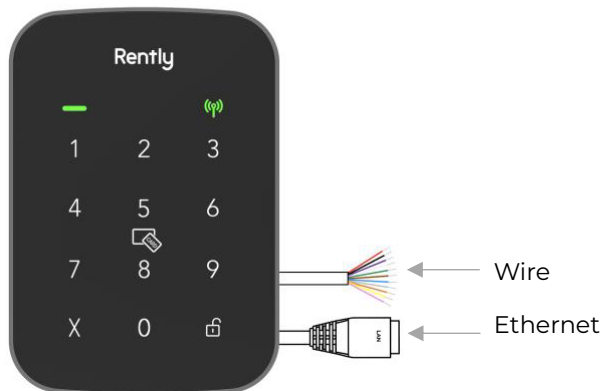
The Rently Access Panel Pro is a cloud-based access control panel which has built-in NFC card reader and Keypad, and dry contact relay. It can be used to easily track, change, and manage FOB cards and door code credentials.

The Rently Access Panel Pro can be used to control any access device that is operated by a normally open or normally closed signal if the voltage requirements are met. NOTE: this system only supports Mifare FOB cards and does not integrate with HID FOB cards.

The Rently Access Panel Pro stores all valid credentials within the device. It contains Bluetooth, Wi-Fi, and LTE-M (Cat-M1) cellular module. This allows you to place secure access points all over a building without having to wire a central control system.

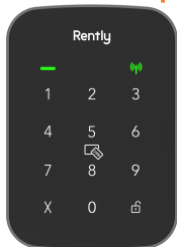


Wire definition

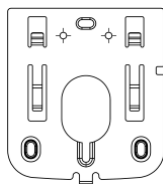


Color	Name	Description
Red	+VDC	Power input
Black	Ground	
Purple	NC	Dry contact Relay output Gated Operator, Door Strikes, Maglocks (for control-only power to be provided by external power supply)
White	COM	
Green	NO	
Brown	GND	GND
Blue	REX	Request-to-Exit (REX) Input
Gray	GND	GND
Orange	Door SNS	Door contact sensor (NC) Input
Yellow	D1	Wiegand input/output Data1 (Reserved)
Pink	D0	Wiegand input/output Data0 (Reserved)

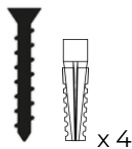
What's in the package



Access Panel



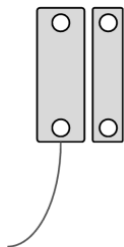
Mounting Plate



Anchor and Screw



Manual



Door contact sensor



Wire Connector x 8



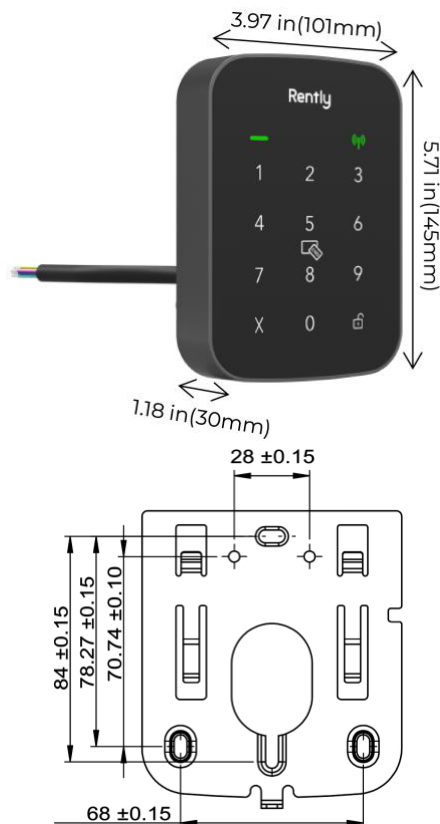
Screw wrench

Tools required:

- Hammer
- Drill/Driver
- Philips and small flathead screwdrivers
- Screw wrench
- Wire cutters
- Drill Bit Set
- Low voltage wires (e.g., 18 gauge)

NOTE: additional tools may be required for your specific application

Dimensions



Specifications

Product name	Access Panel Pro
Module number	PANEL500
Weight	Panel: 422g Mounting plate and rubber pad: 122g

Power Input	12VDC: 320mA, 24VDC: 160mA (Should be powered by UL 294 Listed Class 2, power limited power supply)
Input	One Request-to-Exit (REX) Input, e.g., push-to-exit button, motion sensor, etc.
	Built-in 12 keys touch keypad with backlight (number 0 to 9, Unlock and Cancel)
	Built-in 13.56MHz NFC Fob card reader, reading distance 0-1.0cm (0.39in)
Output	One Primary dry Relay Normally Open (NO)/Normally Closed (NC) Output. Rated up to 1.0A at 12VDC, 1.0A at 24VDC
Codes & Capacities	<ul style="list-style-type: none"> • 5-, 7- or 8-digits entry codes • 2,000 Code and FOB card capacity
Communication	Internet via Ethernet 10/100M, to connect the access panel to the cloud server.
	Wi-Fi 2.4GHz and 5GHz to connect the access panel to the cloud server.
	LTE-M (Cat-M1) cellular to connect the access panel to the cloud server.
	Bluetooth 5.2 to connect to the smart phone for two purposes, first is to set up the Wi-Fi connection, second is to open the door via App.
Standby power	1.2W (12V/0.1A)
Buzzer	One built-in Buzzer to provide audible feedback for operations
LED indicator	<ul style="list-style-type: none"> • One green/red dual-color indicator for

	credential verification: Green-Pass, Red-Fail
	• One green indicator for network: On-connected to the network, Off-no network connection.
Operation Temperature/Humidity	-35 to 70°C (-31 to 158°F), 0 to 95% (RH) for indoor or outdoor use
Storage Temperature	-40°C To 65°C (-40°F to 149°F)

Reader/Keypad

The Rently Access Panel Pro has built-in Reader and 12 touch keys Keypad.

The user experience is simple yet effective: whenever a user presents an NFC card to the reader, information about the credential will be read and verified by the Access Panel. It provides visual and audio feedback through an LED indicator, its colors differing depending on the result of the unlock attempt.

Once Access granted the controller will fire the relay output to open the door.

Credentials

Credentials identify a user and are either physical or mobile.

- **Rently Physical credentials**
Rently credentials is MIFARE DESFire EV1 (32-bit Smart Fob card), Frequency: 13.56MHz.
- **Server credentials**
Tap in-app allows you to unlock doors from within the Rently Smart Home app. The tap sends the unlock request directly to the cloud server, then to the controller, which fires the relay opening the door.

Wiring Specifications

Use this chart to pull wires in preparation of your installation. Check the national and local building codes BEFORE installation.

Signal	AWG	Twisted Pair	Conductors	Max run distance
Power input Wire for the Access control panel (12V DC input)	18	No	2	50 feet
	14	No	2	100 feet
Power input Wire for the Access control panel (24V DC input)	18	No	2	300 feet
	16	No	2	450 feet
Request-to-exit	22	No	2	98 feet
Door Contact	22	No	2	98 feet
Dry contact relay output (NO/NC/COM)	22	No	2	200 feet
	18	No	2	300 feet
Local Area Network (LAN) CAT 5e or better Network cable	24	Yes	8	328 feet*

NOTE: Main power supply and control wiring **MUST** be run in separate conduits. Conduits must be UL approved for low and high voltage. Refer to the NEC for additional wiring requirements.

Category INTRODUCTION 5e cabling is the minimum PRE-INSTALL performance category recommended.

Wiring shall be in accordance with the National Electrical Code (ANSI/NFPA 70), local codes and authorities having jurisdiction.

Always provide power from a dedicated source. Plug provided transformer into an outlet wired to its own 10 Amp minimum circuit breaker. This will prevent two problems:

- Other equipment cannot introduce spikes, noise, surges or dips into the power circuit that will affect the system.
- The system's operation will not be affected if any other equipment develops a short circuit across the power line.

*** CAT 5/6 NETWORK CABLE NOTES:**

- For outdoor distances exceeding 140 feet (42.7 m), a UL497 compliant primary surge protector MUST be installed.
- Distances exceeding 328 feet (100 m) may be accommodated with additional hardware (available through third-party sources).

Internet connection

There are three ways to connect the Access Panel Pro to the Internet:

- **Connect via Cellular LTE-M(Cat-M1)**
The product is pre-installed with a SIM card and will automatically activate the cellular network connection when there is no Wi-Fi or Ethernet connection.
The priority of cellular is lower than Ethernet and Wi-Fi.
- **Connect via Ethernet cable.**
Plug the Ethernet cable into the Panel's Ethernet port.
- **Connect via Wi-Fi**
Download and register for the Rently Smart home App and follow the prompts to connect the access panel to Wi-Fi.

The wireless connection distance between the access panel and the router is:

- o 65ft direct line of sight without interference.
- o 29ft if separated by a non-load-bearing wall.
- o 20ft if separated by two layers of non-load-bearing wall.

Note: above distance is just for reference, the actual effective connection distance is related to the complexity of the

environment and the signal strength of the router.

Installation instructions

Prior to Installation

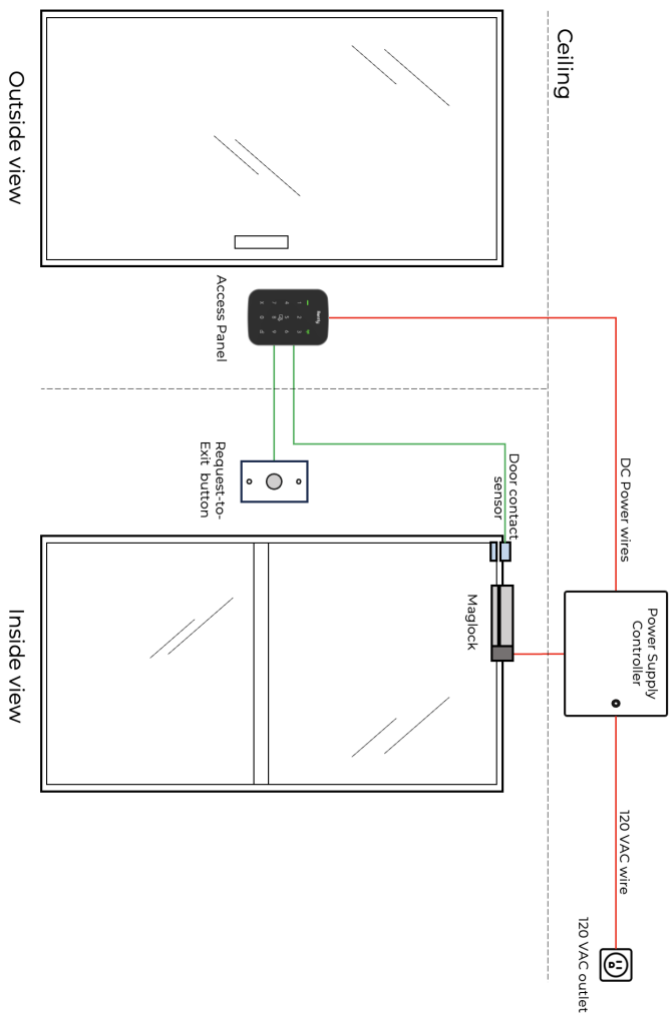
- Check that all components are available.
 - o Rently Access Panel Pro
 - o Request-to-exit Button
 - o Power Supply Controller
 - o Wall anchors or other mounting hardware
 - o Cable management box (Optional)
 - o Your preferred lock type including but not limited to:
 - Electromagnetic Lock and lock brackets
 - Electric Strike Lock
 - Electric Bolt Lock
 - Electric Cabinet Lock

NOTE: This is a kit, and not all components will be used.
Please recycle parts that are not necessary for your application.

For all the devices connected to the Access Panel Pro should be UL 294 Listed.

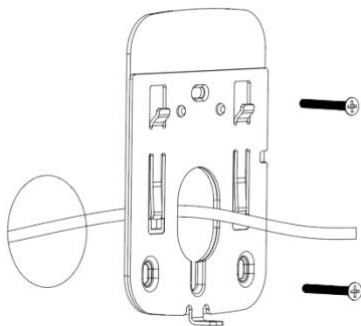
- Identify the door type and verify that you have the correct mounting bracket and hardware for the install.
- Locate the power source for the power supply controller.
NOTE: You may need to have a certified electrician run power to the install location.
- ADA considerations:
The Exit Button and the Rently Access Panel Pro should be installed in accordance with your local ADA requirements.
Recommended height does NOT guarantee ADA compliance.

Typical Installation



1. Run the Power and control wires to the location where the Rently Access Panel Pro will be mounted.

3. Run the power and control wires through the mounting plate.

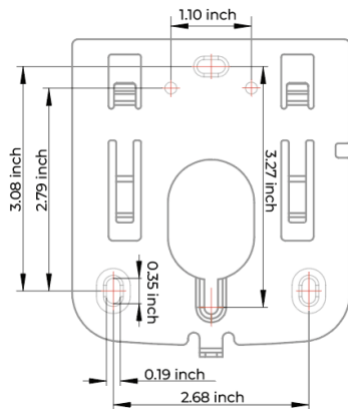


4. Press the mounting plate firmly against the mounting surface and secure with screws.



Make sure the screws
flush with the plate surface.

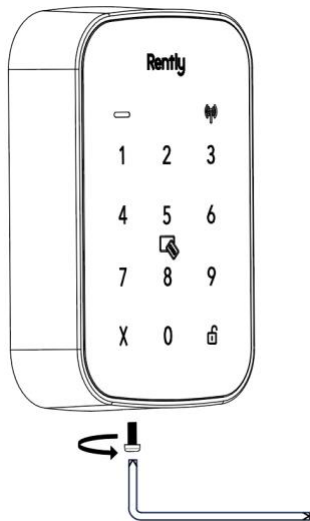
2. Drill holes for the wall anchors according to the dimensions in the diagram below, then insert the wall anchors into the holes.



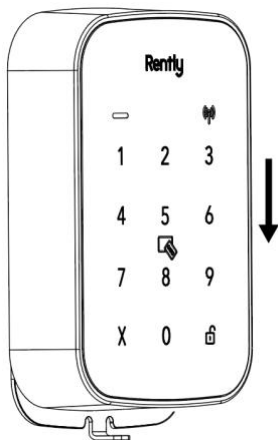
5. Connect the power and control wires to the Access Panel according to the appropriate wiring diagram (see [wiring instructions](#) part).

6. Check to make sure that all wiring is correct and secure, confirm that the Access Panel is functioning properly.

8. Screw the Access Panel on the mounting plate.



7. Press the panel onto the mounting plate and slide it down to hook the Access Panel on the mounting plate



Connect Power

The outlet for the Access Panel power supply controller **MUST** be an external dedicated 120 Vac outlet.

1. Connect 14-18 AWG wire to the stripped secondary DC output wires on the power supply controller. Black is negative and red is positive.
2. Connect the power supply wires to the Power INPUT terminal of the Access Panel.
3. Plug the power supply controller into a 120 Vac outlet after all connections have been made.



CAUTION

DO NOT connect the power supply to a switched outlet or otherwise controlled AC outlet.
DO NOT connect the power supply to the 120 Vac outlet until ALL wiring is completed.

Access Control Wiring instructions

Fail-safe means that if the power is interrupted or fails, the door automatically unlocks.

Fail-secure means that if the power is interrupted or fails, the door stays locked.

Mostly fail-safe locks are used for main entry points like office doors or lobby access doors. A popular use for this application is maglocks which - by design - require power to operate.

Often Fail-secure locks are used for IT rooms or other sensitive areas. However, because the door keeps being locked in emergencies, typically it will be usable with a mechanical override, such as a regular key.

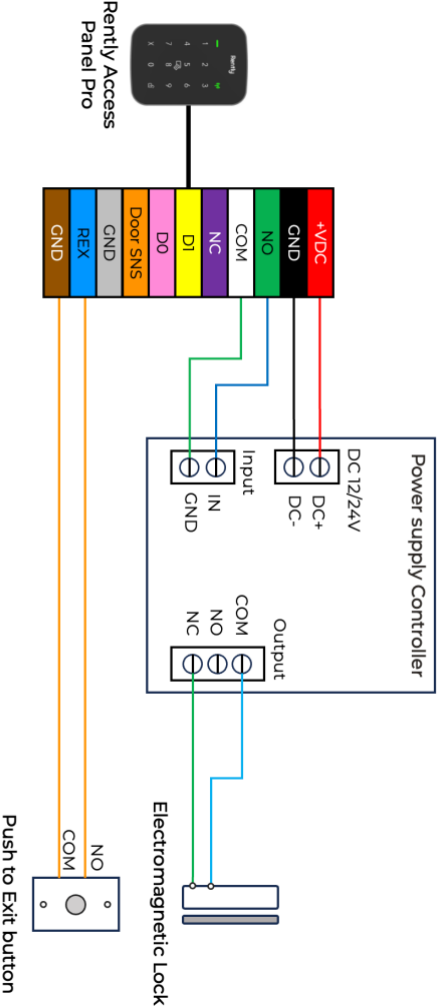
Fail-secure locks are used for fire related doors or staircase (stairwell) doors. The reason is that in case of fire, those doors should remain closed to seal off a portion of the space and help reduce spreading of the fire.



Attention

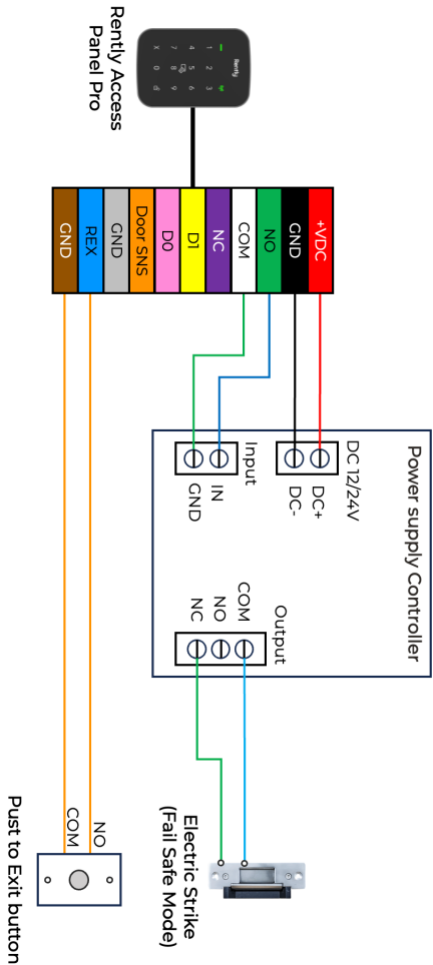
Before you install the electric locking hardware, check the manufacturer's documentations of the devices. Please refer to your local building codes and property requirements for appropriate fail-safe and fail-secure wiring.

Fail-Safe Electromagnetic Lock (Dry contact)



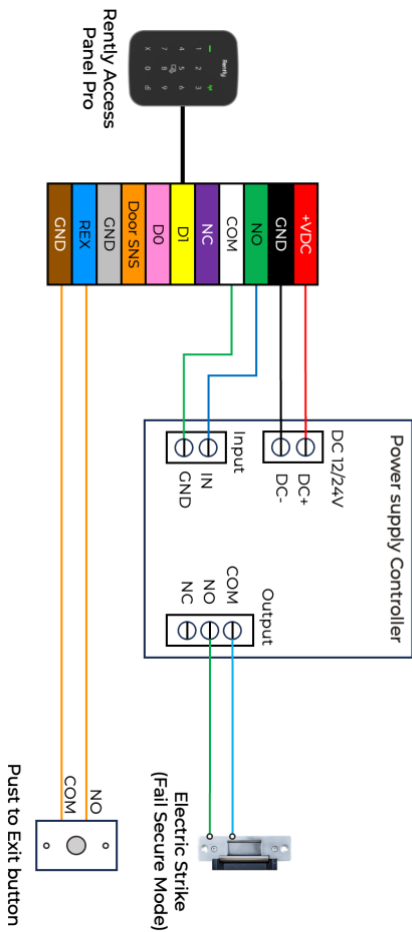
Fail-Safe Electric Strike (Dry contact)

Set the Electric strike to Fail-Safe mode according to the manufacturer's documentation before installation.



Fail-Secure Electric Strike (Dry contact)

Set the Electric strike to Fail-Secure mode according to the manufacturer's documentation before installation.



More wiring scenarios please refer to the **Wiring Guide**.

Installation Test

With the components installed and wired, please carry out this simple test to ensure that the Rently smart access control system was installed correctly and is fully functional.

To ensure that the wiring was done correctly, please press the exit button to see if the lock releases for a few seconds.

If the test fails, please reexamine the installation and wiring of the Rently smart access control system.

For more information on how to set up manager and resident access, please scan the QR code or reach us at:



(855)-248-8144
support@rentlykeyless.com

Appendix

UL294 Performance Levels:

1. Attack Level: Level I
2. Endurance Level: Level IV
3. Line Security Level: Level I
4. Standby Power Level: Level I

The features and 3rd party devices below are not evaluated by UL:

1. Remote access
2. Ethernet, Wiegand, Wi-Fi, LTE and BLE connection
3. Internet connection
4. Sever credentials for remote access via Rently Smart Home App
5. Gate operator
6. Door Strikes
7. Maglocks
8. Door contact sensor
9. Power supply controller
10. REX button



FCC WARNING 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.

Note: 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment. The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

FCC ID: 2AH4J-PANEL500