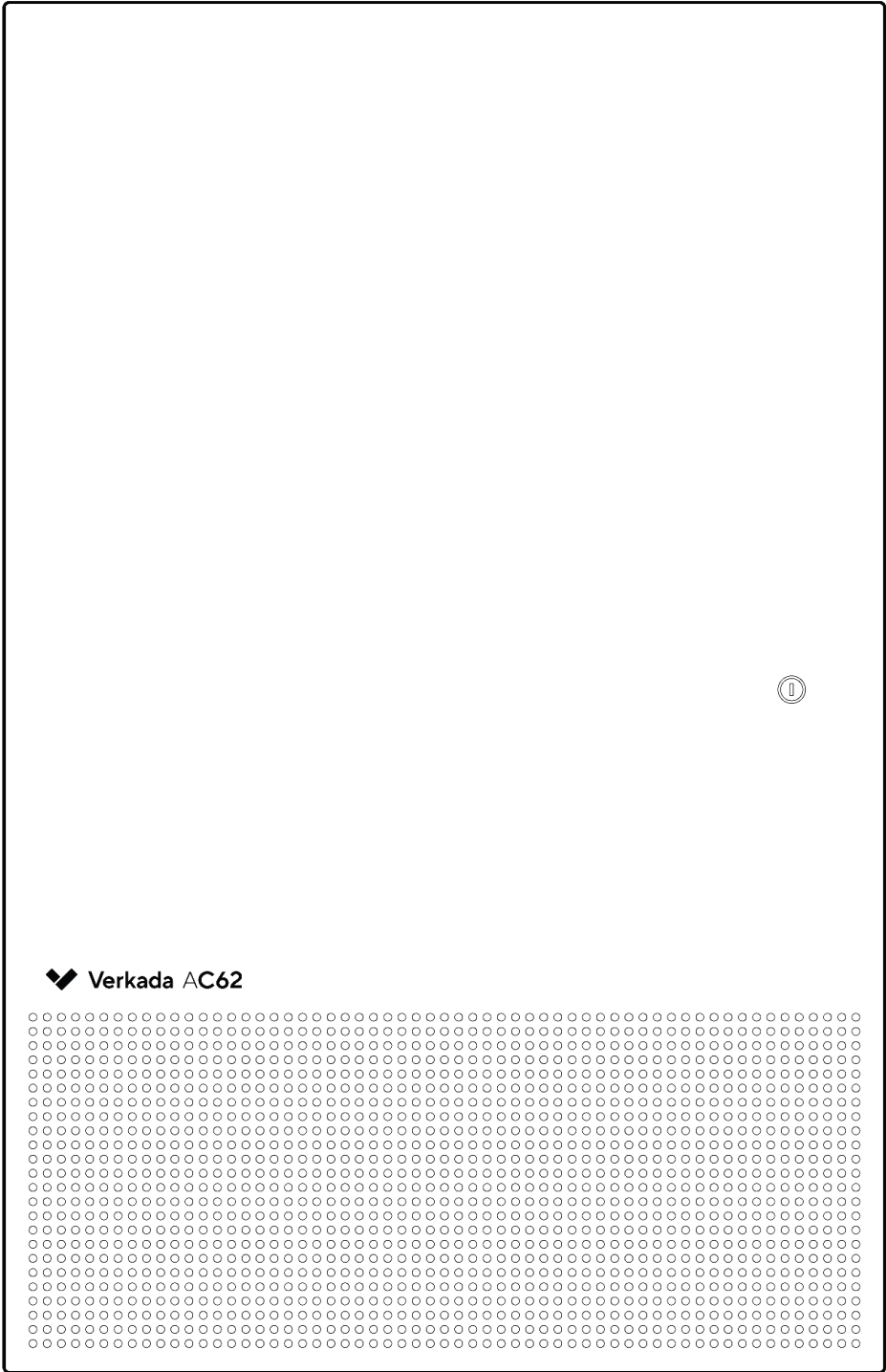


AC62 Door Controller



Document Details

VI.4 (20260316)

(VI.0 first published 20220620)

Firmware

Firmware version can be verified on Verkada Command command.verkada.com.

Product Models

This install guide pertains to AC62-HW and AC62-HW-G.

Levels of Access Control

- Attack Level/Grade: Level 1
- Endurance Level/Grade: Level 1
- Line Security Level/Grade: Level 1
- Standby Power Level/Grade: Level 1

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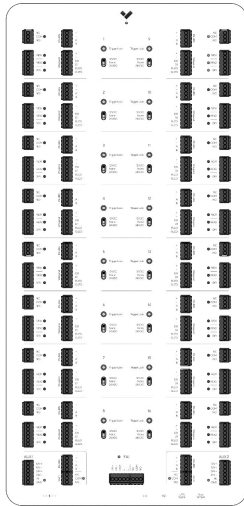
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Introduction

What's in the box



AC62 Door Controller



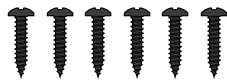
Wall Mount



Wall Mount Guide



AC Cable

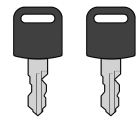


6x Plywood Screws

For materials other than plywood, ensure proper load-bearing fasteners are used.



Screwdriver



2x Keys

What you'll need

- A working internet connection
- A smartphone or laptop
- A #2 Phillips head and power drill
- A level

Please note: Two (2) person installation recommended

Connect

Connect the AC62 to your network using the Ethernet port located at the bottom of the controller. Connect the AC62 power supply into your power outlet.

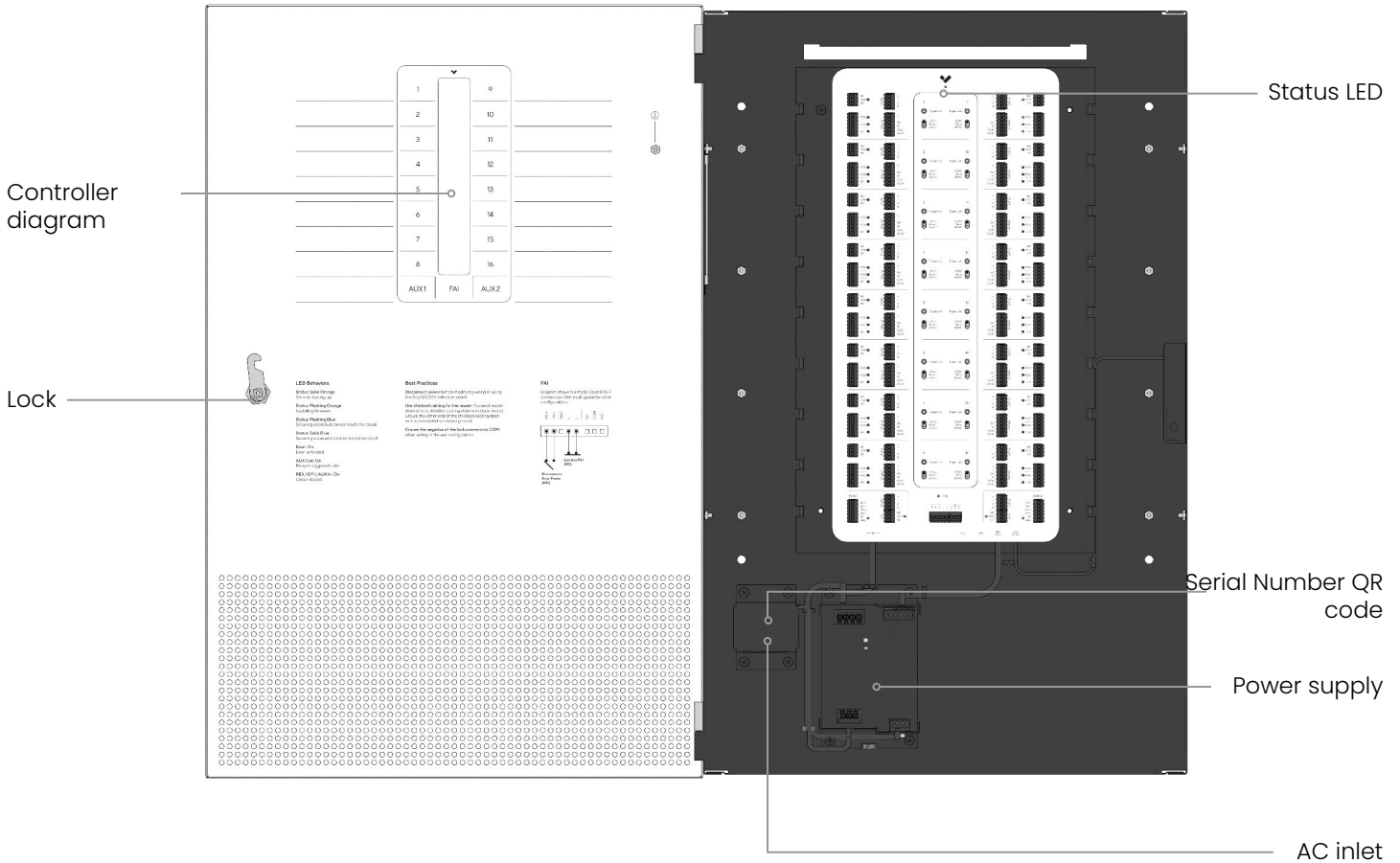
Supports 100VAC to 240VAC (50-60Hz).

After connecting the AC62 to network and power, visit: verkada.com/start

For detailed installation instructions, visit: verkada.com/support



Overview 1/2



Status LED Behavior

-  **Solid Orange**
Controller is on and booting up
-  **Flashing Orange**
Controller is updating firmware
-  **Flashing Blue**
Controller is managing doors, but cannot reach the server
-  **Solid Blue**
Controller is managing doors and connected to the server
-  **Flashing Pink**
Identify

Other LED Behavior

-  **Door: On**
Door unlocked
-  **AUX Out: On**
Relay in triggered state
-  **REX / DPI / AUX In: On**
Circuit closed
-  **FAI: On**
FAI in triggered state

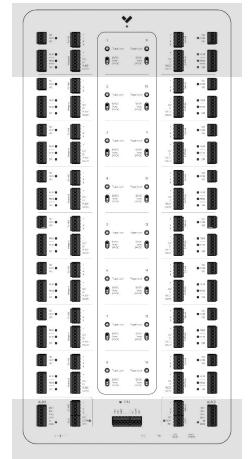


Overview 2/2

Controller highlights

- 1 Ports for: Doors 1 to 16. All door ports function the same.
- 2 Ports for: AUX, Fire Alarm Interface (FAI)
- 3 Ports for: AC, Ethernet, USB, UPS, Door Tamper

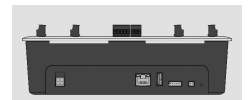
1



2

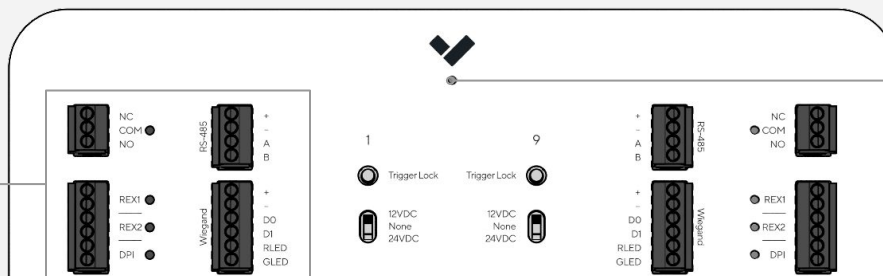


3



1

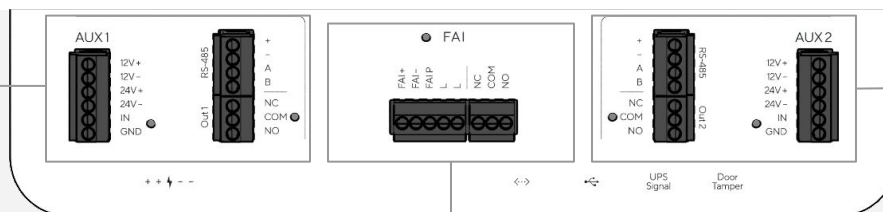
Door 1 Ports
Same for all doors



Status LED

2

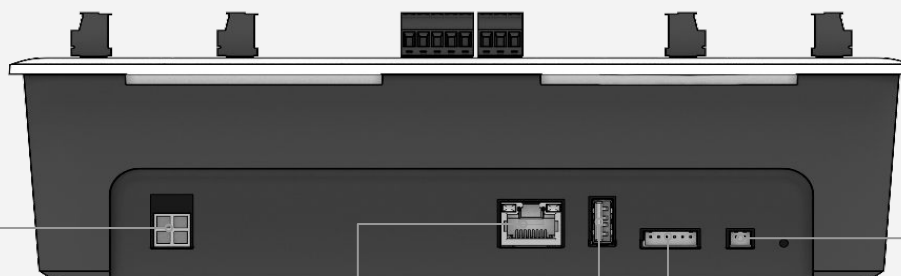
AUX 1 Ports



AUX 2 Ports

FAI Port

3



AC

Ethernet

USB

UPS Signal

Door Tamper



Recommended Testing

To ensure ongoing functionality of AC62, it is recommended to check the following interfaces every 6 months:

- Short each input to its adjacent GND port and verify that LED illuminates.
- Use multimeter to confirm expected impedance across relay outputs.
 - Closed across NC and COM
 - Open across NO and COM
- Use multimeter to verify correct voltage is supplied at 12V AUX outputs, 24V AUX outputs, and reader power outputs.
- Check the shielding cables of the readers and other AUX wiring, if any, for proper connection to the grounding screw/s on the chassis.
- If a backup battery is in use, check for leakage, deformation of the battery, and follow guidelines from the battery manufacturer.



AC62 Technical Specifications

Power Consumption	350W maximum	
AC Power Input	100-240VAC 50-60Hz	
Inputs	2x REX dry inputs per door 1x DPI dry input per door 2x auxiliary dry inputs	
Readers	1x reader port (Verkada/RS-485 or Wiegand) per door 2x auxiliary reader ports (Verkada/RS-485) Reader current consumption must be < 250mA per reader <i>Note: max of 16 readers can be powered simultaneously</i>	
Relay Outputs	1x wet or dry relay per door Wet relay switch-selectable power: • 12V operation 1A max • 24V operation 0.5A max Dry relay max pass-through power: • 24VDC @ 2A (resistive load) 2x auxiliary dry relays	
AUX Power	2x 12V @ 1A output 2x 24V @ 0.5A output	
Dimensions	773mm (L) x 499mm (W) x 186mm (H) 30in(L) x 20in (W) x 7in (H)	
Weight	20kg / 44lb	
Operating Temperature	0°C - 50°C	5 - 90% Humidity
Compliance	FCC Part 15 Class A, ICES-3 Class A, CE, UKCA, RCM, VCCI, UL 294, CAN/ULC 60839-II-1, UL 62368-1, CSA C22.2 No. 62368-1, IEC 62368-1, NDAA	
Connectivity	Ethernet: 100/1000Mbps RJ-45 for network connection USB 2.0	
Included Accessories	Lock key and flat head screwdriver	
Mounting Options	Mounting plate and 6 screws (#12x1")	

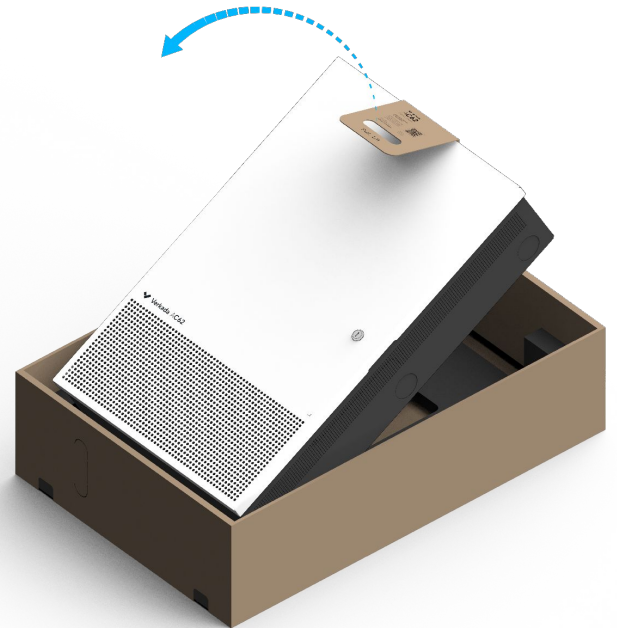


Installation

Unboxing

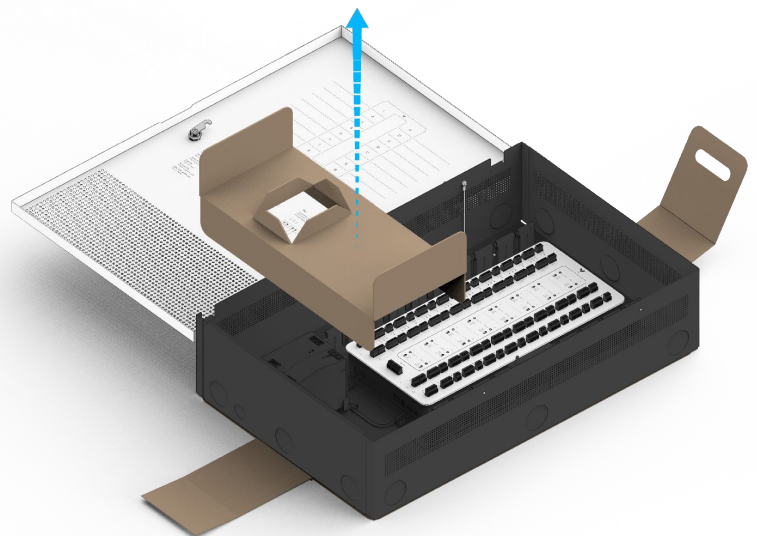
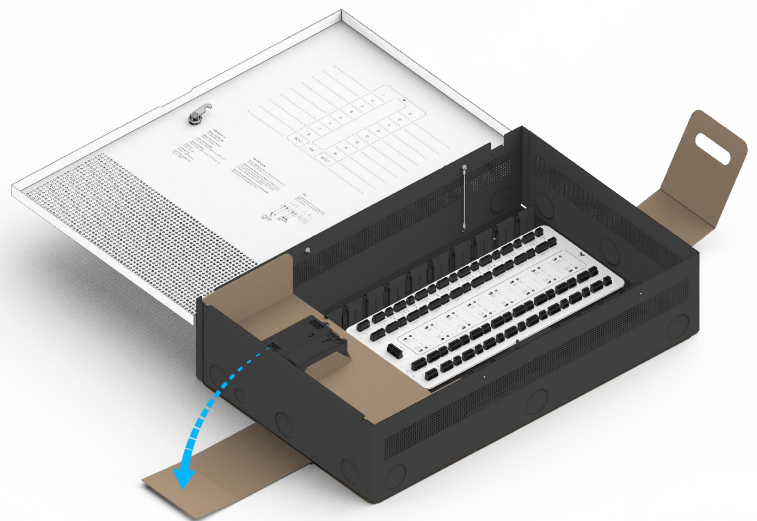
Pull the handle to lift and remove AC62 from the box.

Please note: Two (2) person installation recommended



Lay AC62 on a flat surface, open the door and remove the cardboard.

Keep cardboard intact for next step.

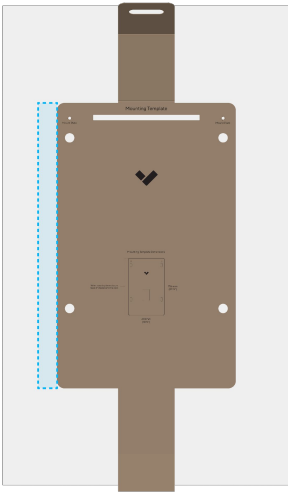


Installation

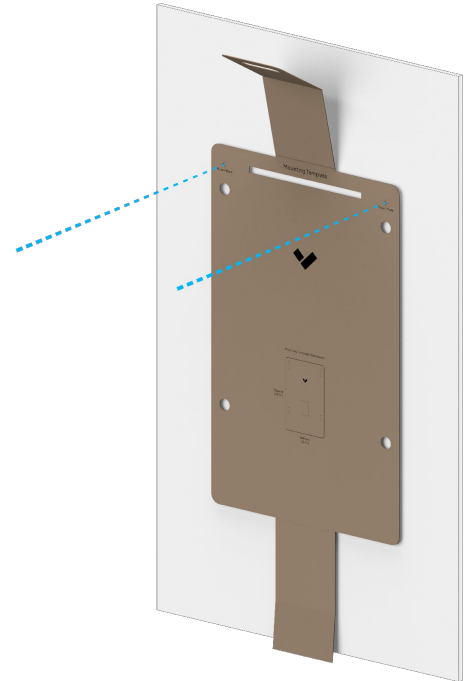
Mounting 1/4

Use cardboard mounting template from the previous step to get a sense of the wall space AC62 will occupy.

Use mounting template to drill pilot holes for the mount plate.

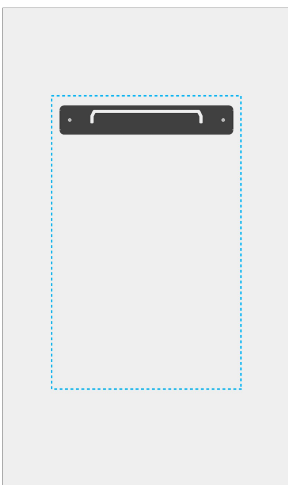


Please note: Leave at minimum 2" clearance on the left side of the enclosure in order for the door to open and close without hindrance.



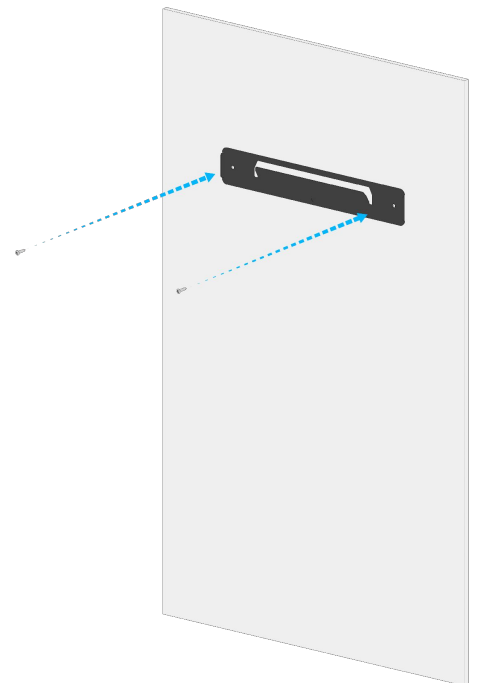
Use the supplied screws to install the mount plate onto the wall. Ensure that the Verkada V is pointing towards the floor.

The enclosure will extend down roughly 31" (~79cm), from the top of the mount plate.



Please note The supplied screws are intended for plywood installations. For other wall materials, ensure proper load-bearing fasteners are used.

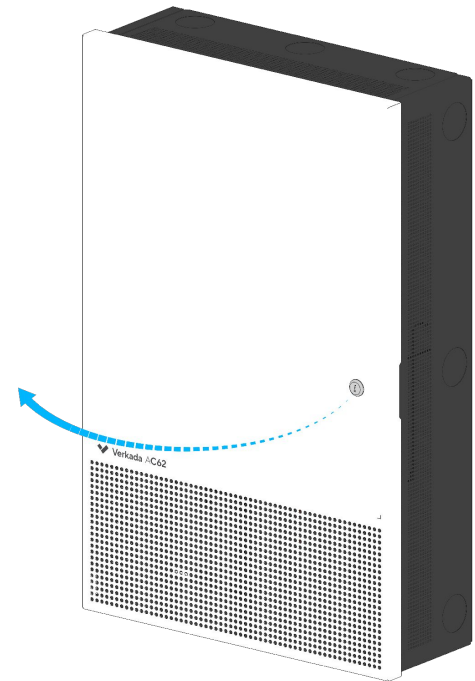
The size of the enclosure is:
31" x 20" (79 x 51 cm)



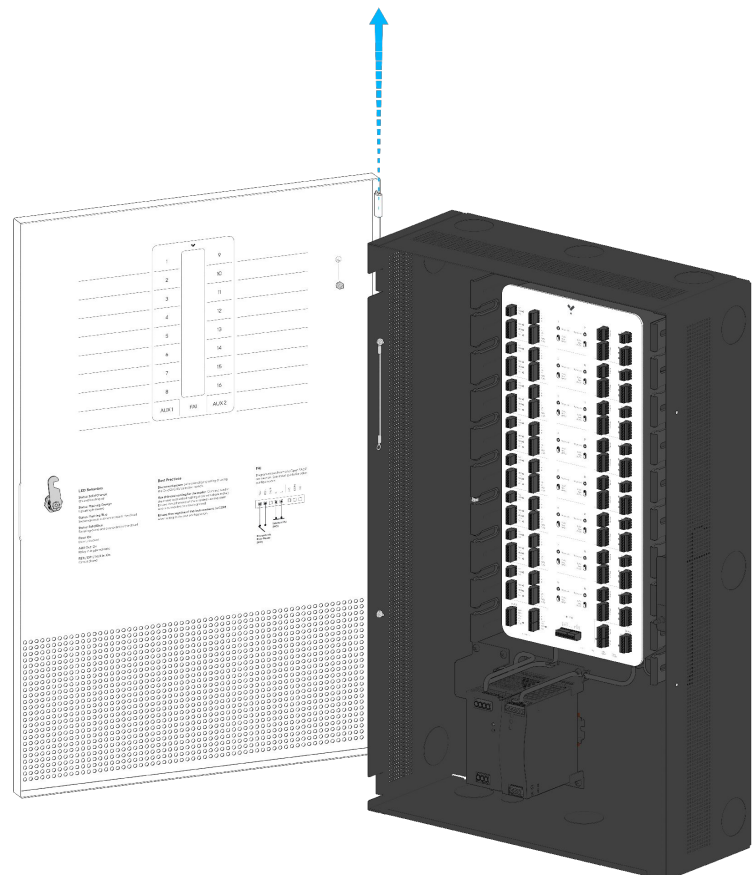
Installation

Mounting 2/4

Unlock and open the enclosure door with the supplied key.

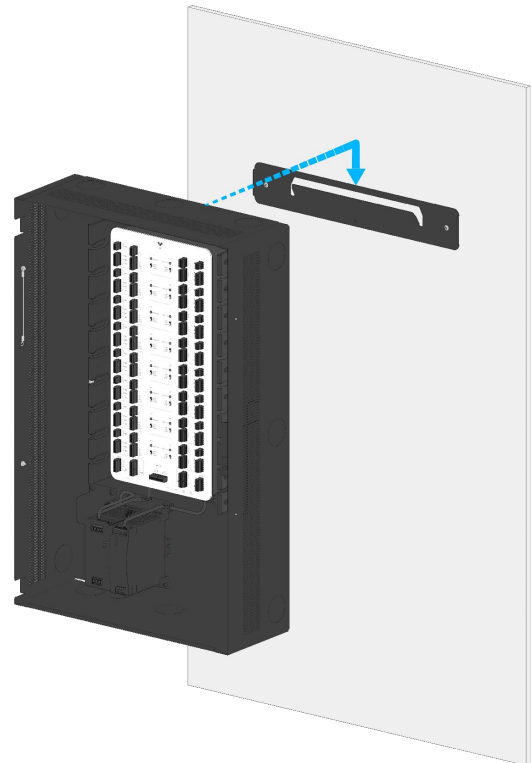
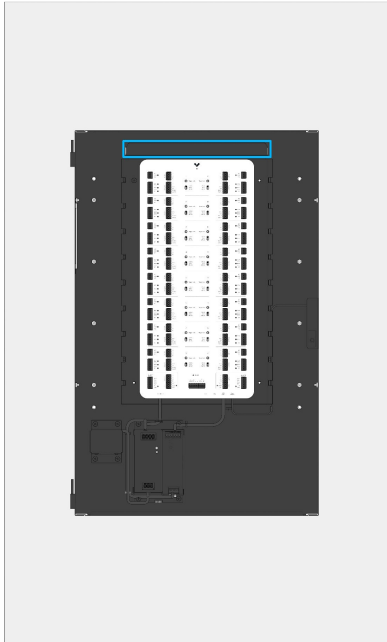


Remove the door by sliding it upwards.

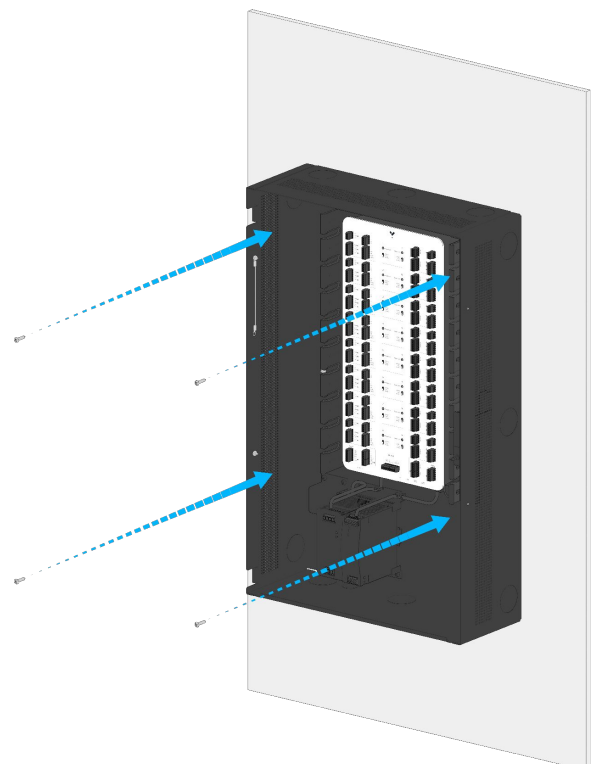
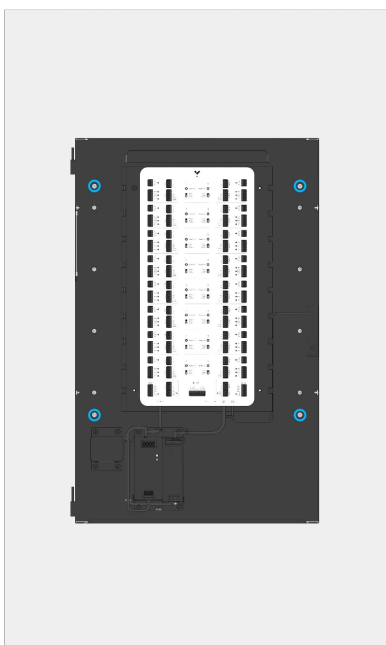


Mounting 3/4

Carefully slot the enclosure onto the mount plate.



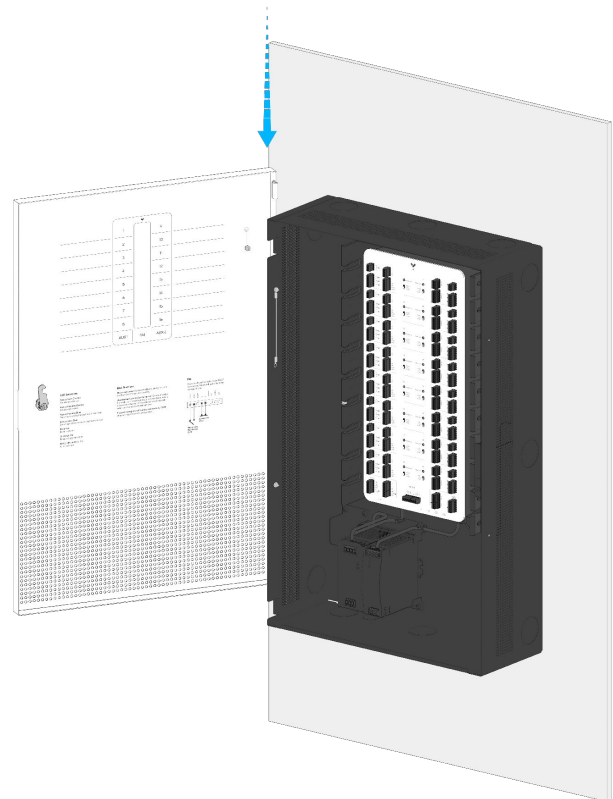
Secure the enclosure onto the wall using the through-holes on the enclosure.



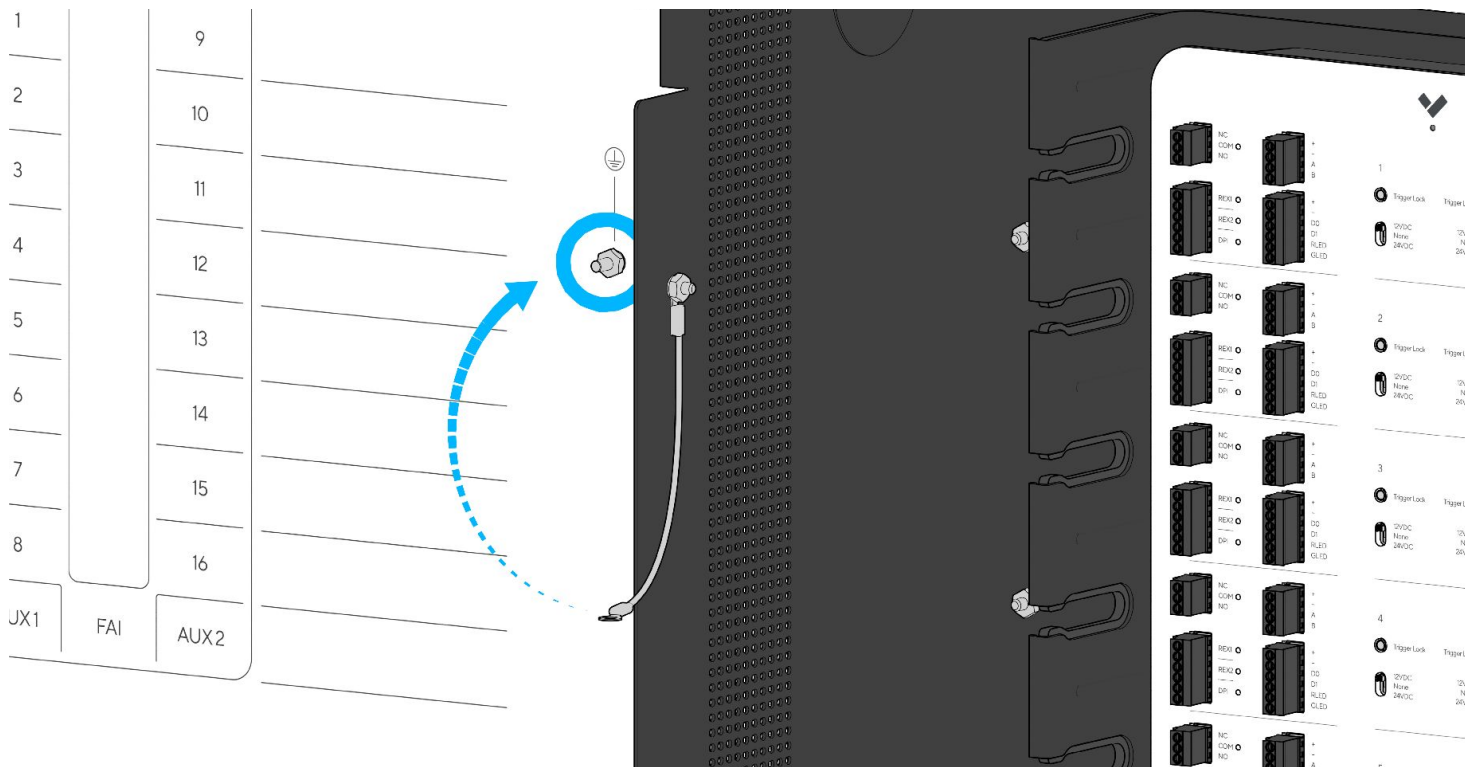
Installation

Mounting 4/4

Reattach the door to the enclosure.



Connect the grounding cable from the enclosure to the door.



Installation

Recommended Wiring

Verkada AC62 is capable of supporting Verkada Readers over RS-485 and standard Wiegand readers. The following diagram shows the wire types that are recommended for use with the Verkada AC62.

Signal	AWG	Twisted Pair	Conductor	Shielded	Max Length
Reader Option 1 (22 AWG)	22	Yes		Yes	250 ft
Reader Option 2 (20 AWG)	20	Yes		Yes	300 ft
Reader Option 3 (18 AWG)	18	Yes		Yes	500 ft
Power (22 Gauge)	22		Yes	Yes	600 ft
Power (18 Gauge)	18		Yes	Yes	1500 ft
Request-to-Exit	22/18		Yes	Yes	1500 ft
Door Contact	22		Yes	Yes	1500 ft

We recommend using one twisted pair for GND and VIN (power) and one twisted pair for the data (D0/D1 or A/B).

Wiring methods shall be in accordance with National Electrical Code, ANSI/NFPA 70.

Shield Wiring and Grounding



You must use shielded wiring with the AC62, particularly for the card reader:

- Connect the drain wire (bare metal) from the reader cable bundle to the drain wire in the shielded cabling. Then connect the drain wire at the other end of the shielded cabling to earth ground.
- Improper grounding and shielding may result in unintended product behavior.

Required Network Settings

An Ethernet connection with DHCP must be used to connect the AC62 to the Local Area Network (LAN). You also need to configure firewall settings to communicate with the AC62.

- TCP port 443
- UDP port 123 (NTP time synchronization)



Connecting a Door 1/5

The door ports' Form C relays can be driven dry or wet. AC62 is rated to power **12V locks up to 1A and 24V locks up to 500mA**.

None/Dry

The AC62 does not provide power to the locking hardware (typically used with external power supplies).

Wet

The AC62 provides 12V or 24V power to the locking hardware.

Warning

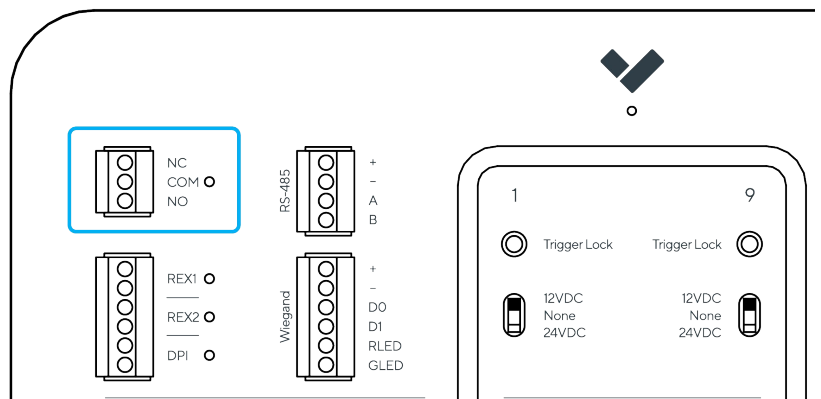


Ensure power is disconnected from the AC62 and locking hardware before wiring, removing or inserting readers, locks or any other peripherals.

1. Wiring Fail Secure and Fail Safe Locking Hardware

Fail secure and fail safe are ways of configuring locking hardware:

- **Fail secure** hardware **locks** when power is interrupted. Usually uses NO (Normally Open Configuration)
- **Fail safe** hardware **unlocks** when power is interrupted. Usually uses NC (Normally Closed configuration)

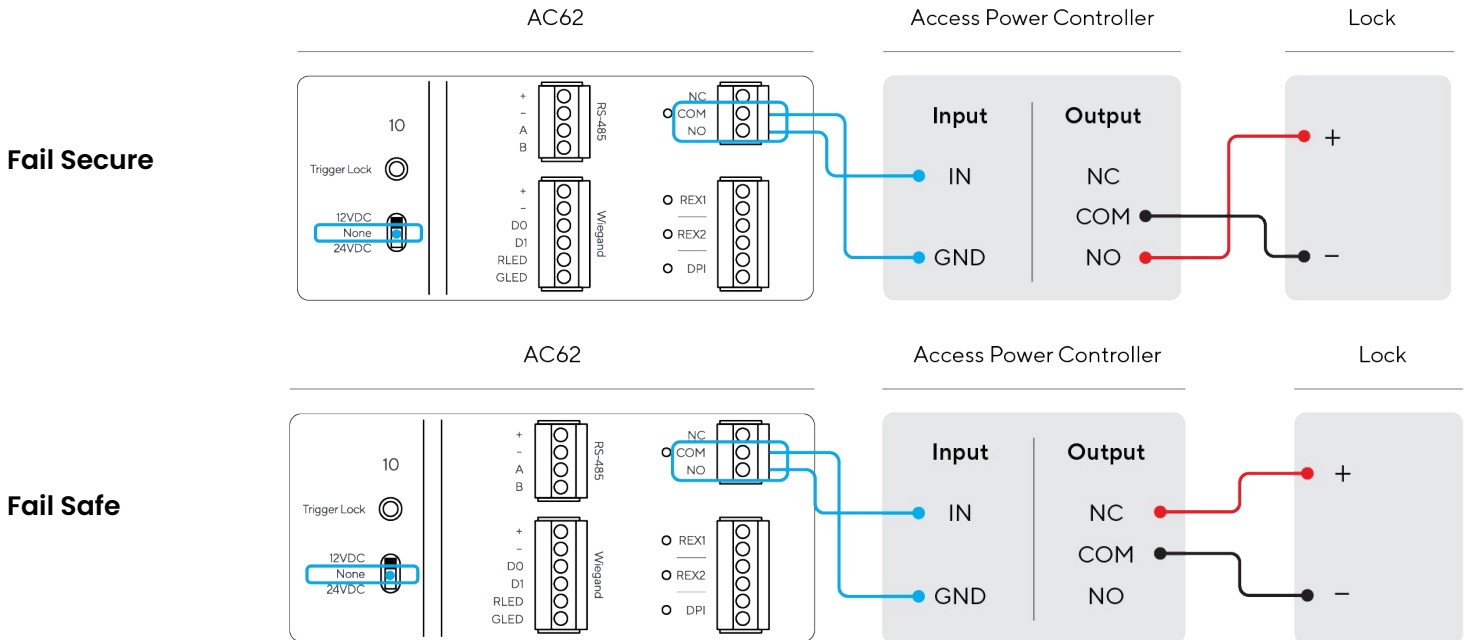


Installation

Connecting a Door 2/5

2a. Connect the Lock (Dry)

When using an extend power supply, which uses a dry contact, ensure that "NONE" is selected on the door power selection switch.



2b. Connect the Lock (Wet)

In a wet configuration, ensure that power selection for each door is set to the correct voltage as outlined by the locking hardware specifications.

- Set it to "12VDC" for 12 volt locking hardware
- Set it to "24VDC" for 24 volt locking hardware

The AC62 is rated to power **12V locks up to 1A and 24V locks up to 500mA.**

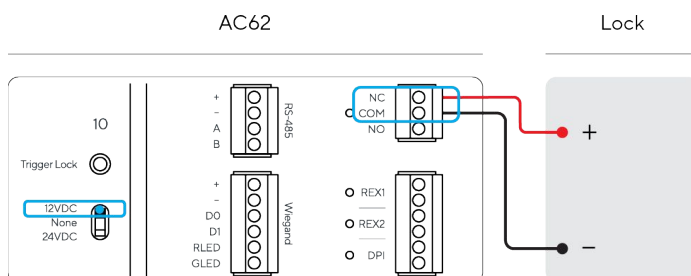
Warning



When connecting the lock in the WET configuration, ensure the negative of the lock goes into the COM port as shown in the diagrams below.

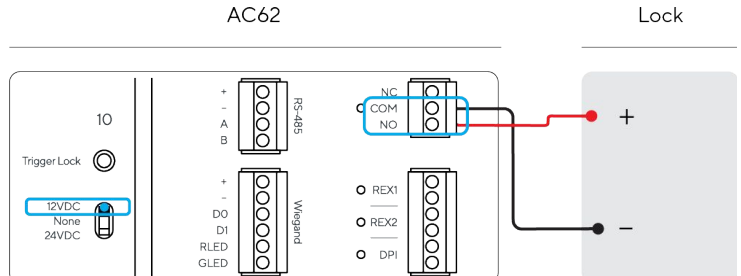
Fail Safe

LOCK (+) positive goes into NC
LOCK (-) negative and ground wire go into COM



Fail Secure

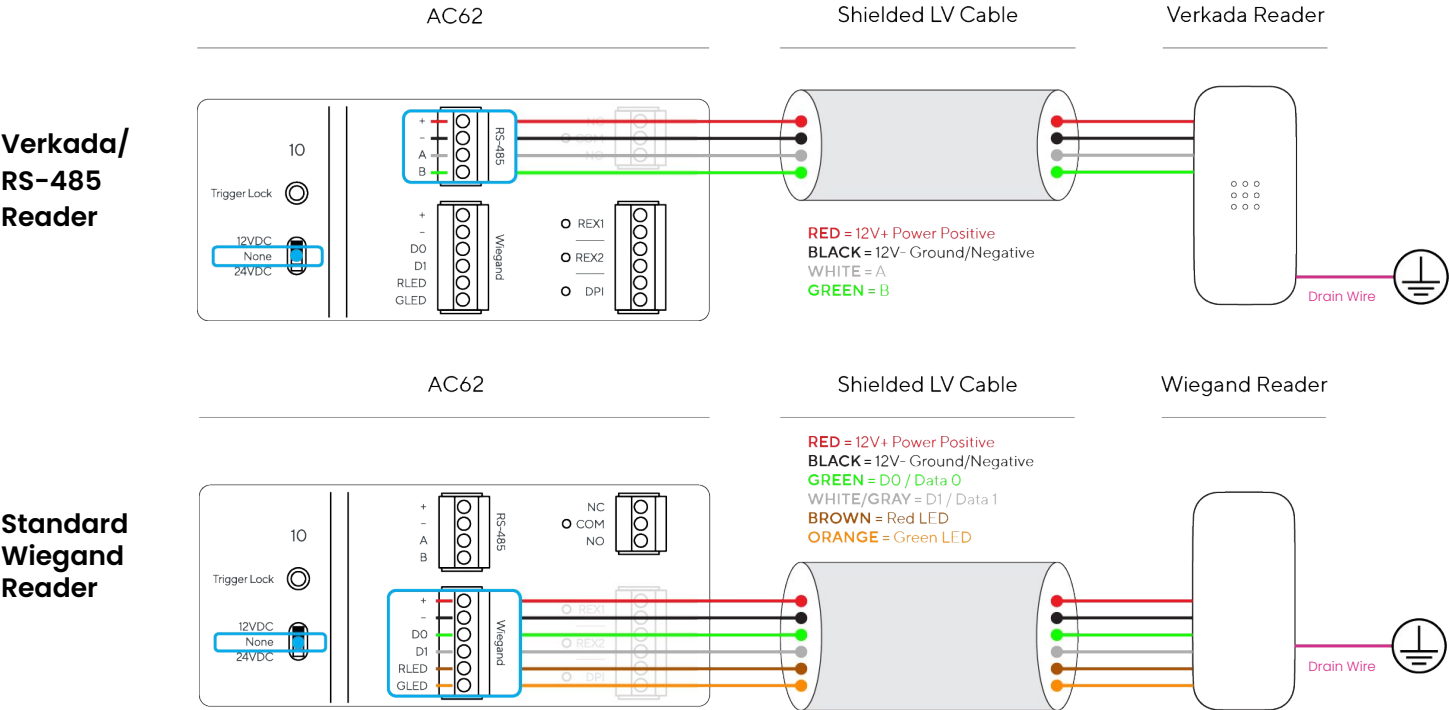
LOCK (+) positive goes into NO
LOCK (-) negative and ground wire go into COM



Connecting a Door 3/5

3. Connecting the Reader

The AC62 is rated to power readers at 12V up to 250mA via the + (VIN) and – (GND) connection. Verkada/RS-485 readers use the top 4-port inputs while Standard Wiegand readers use the bottom 6-port inputs. The drain wire of the shielded cable should be secured to the nearest AC62 chassis ground.



Verkada/RS-485 Reader

Wiegand Reader

Wire Color	Signal
Red	12V Power+
Black	12V Power-
White	A
Green	B

Wire Color	Signal
Red	12V Power+
Black	12V Power-
Green	Data 0
White/Gray	Data 1
Brown	Red LED
Orange	Green LED



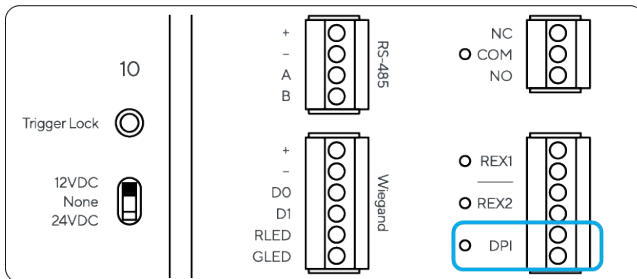
Connecting a Door 4/5

4. Connecting the Inputs

Both the DPI (Door Position Indicator) and the Request-to-Exit (REX) inputs are dry contacts. Installing these inputs is optional. They can be configured in Verkada Command.

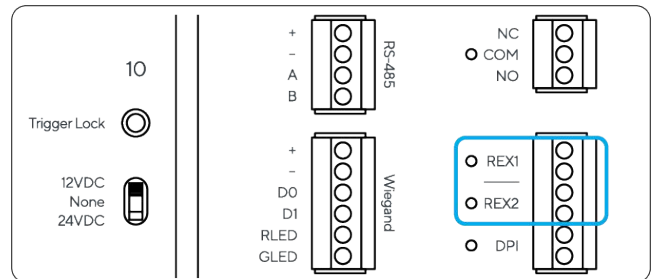
Door Position Indicator

Verkada AC62 expects the DPI to be **NORMALLY CLOSED (NC)**



Request-to-Exit (REX)

Verkada AC62 expects the REX to be **NORMALLY OPEN (NO)**



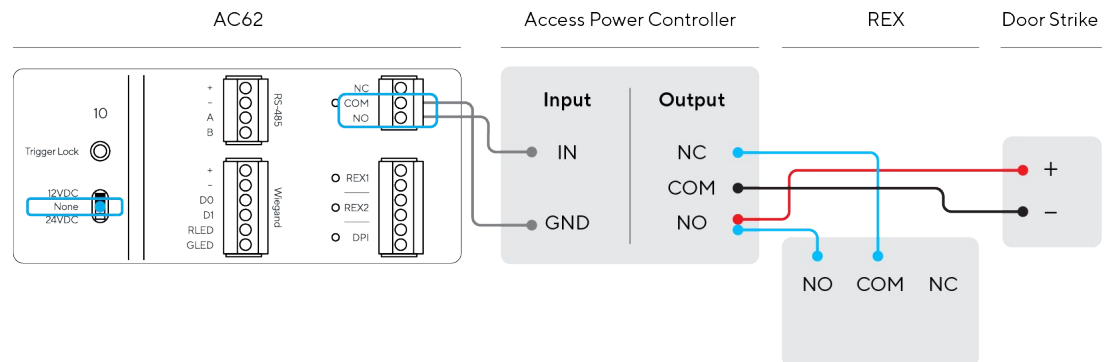
The REX can be configured in Verkada Command to release the lock; this is most commonly seen in electromagnetic locks. The REX unlock time can also be configured.

Connecting a Door 5/5

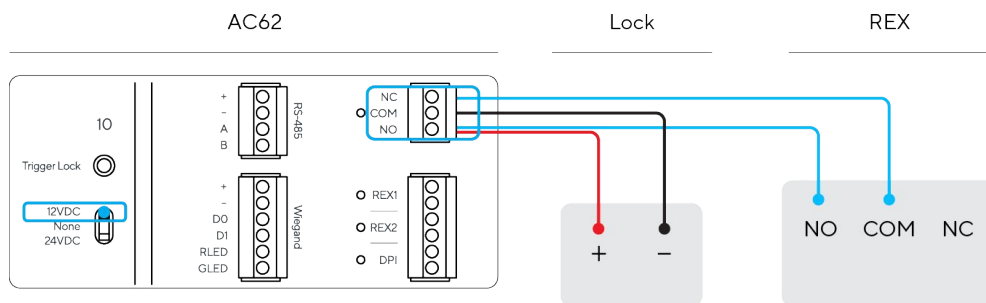
5a. Wiring the REX With the Door Strike

For safety-related applications, wire the REX in parallel with the Door Strike. You can wire additional REX switches and sensors to the door cassette if needed.

DRY Configuration



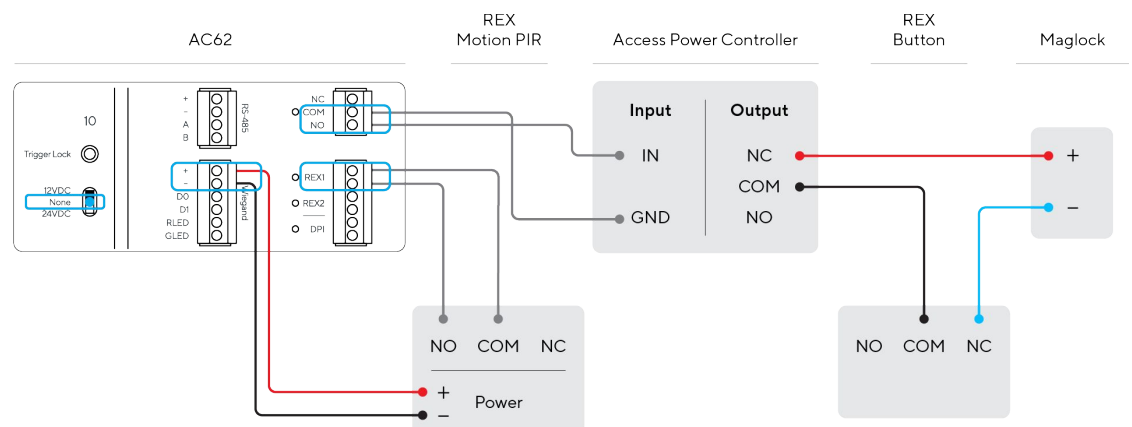
WET Configuration



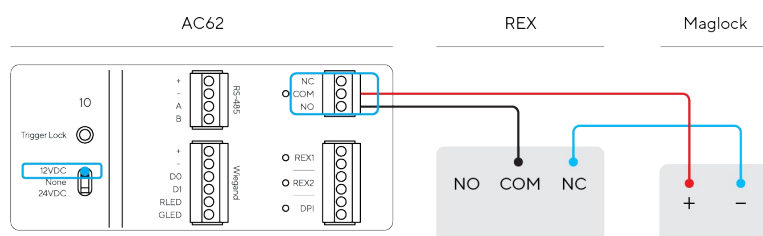
5b. Wiring the REX with an Electromagnetic Lock

For safety-related applications, wire the REX directly to the mag lock. You can wire additional REX switches and sensors to the door cassette if needed.

DRY Configuration



WET Configuration

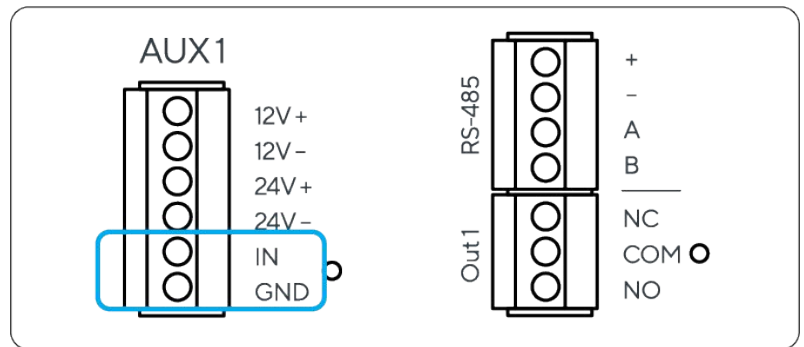


Installation

AUX

AUX Inputs

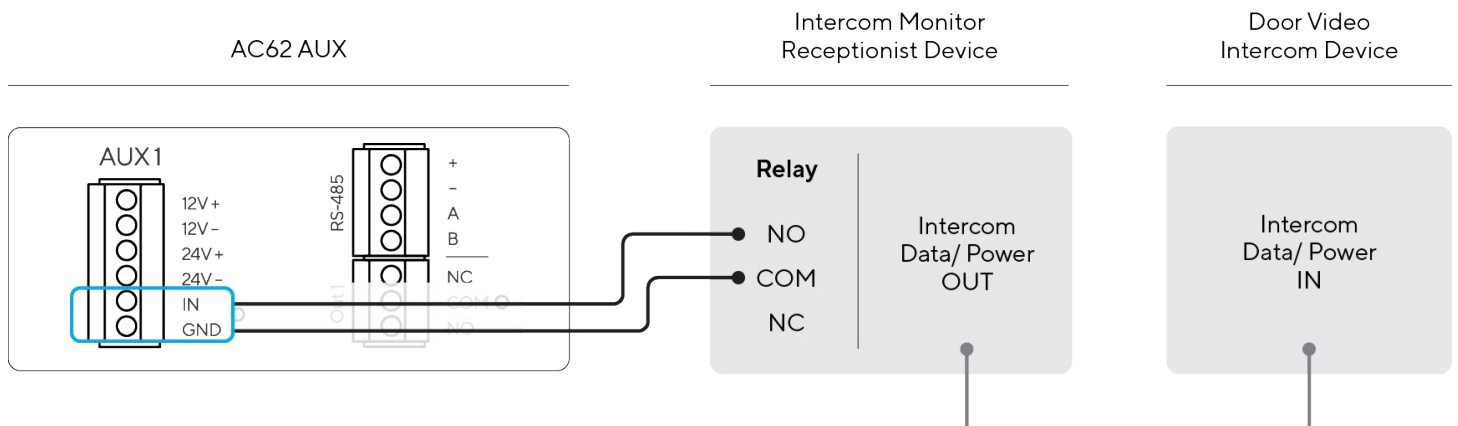
The Verkada AC62 has two AUX inputs. The AC62 expects both AUX inputs to be **NORMALLY OPEN (NO)**.



With the AC62's AUX inputs, you can hook up devices such as intercoms and panic buttons. All associated events will be logged in Command.

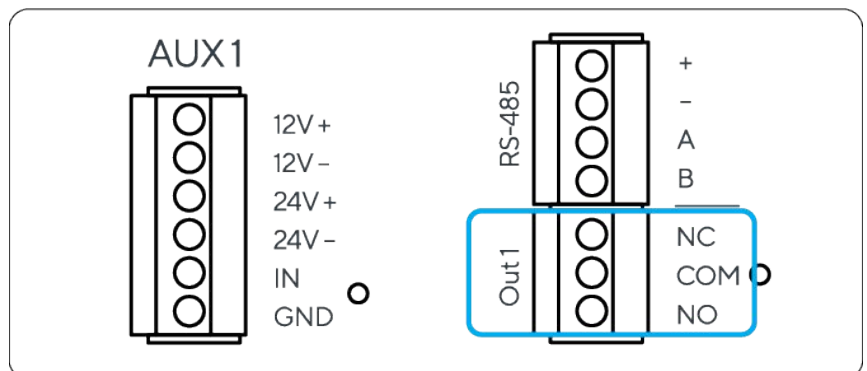
The AUX inputs can be programmed in Command to initiate a lockdown or unlock a door (or a set of doors). We will be expanding support for more auxiliary devices in the future.

Example AUX 3rd Party Intercom Wiring Diagram



AUX Outputs

Additionally, the AC62 has two AUX Form C relays. These two AUX relays can be programmed to trigger an output during a lockdown. This allows you to activate a dialer, strobe light, sounder, etc. when a lockdown is initiated.



Installation

FAI set up 1/2

Normally Closed Input

A normally closed fire alarm input from an FACP should be wired across FAI- and FAI_P.

A jumper wire must be connected across FAI+ and FAI_P.

When the contact is open, this activates the FAI in the AC62, which disables 12V/24V power to all 16 relay outputs. In other words, all wet locks will be effectively dry while the FAI is triggered.

Important



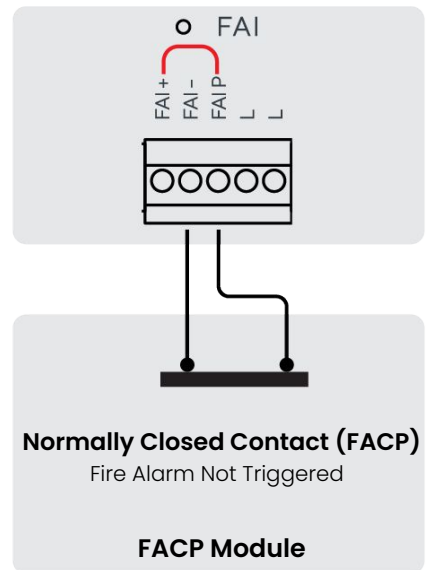
FAI+ and FAI_P must be locally jumpered in this configuration.

Normally Open Input

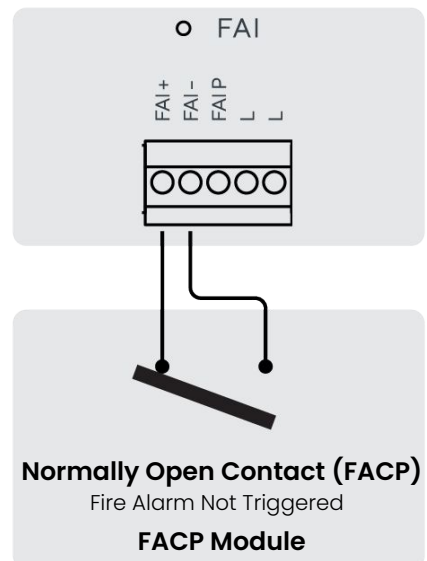
A normally open fire alarm input from an FACP should be wired across FAI+ and FAI-.

When the contact is closed, this activates the FAI in the AC62 which disables 12V/24V power to all 16 relay outputs. In other words all wet locks will be effectively dry while the FAI is triggered.

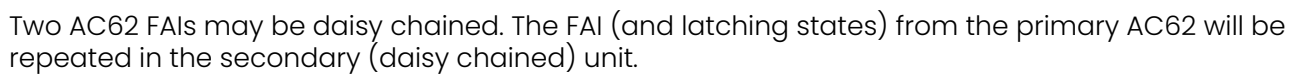
AC62



AC62



An optional latching input from the FACP may be connected in a normally closed configuration across L and L. When latching is enabled, FAI is active; it will remain active until reset. A reset is achieved if FAI is deactivated and the latching input is temporarily open.



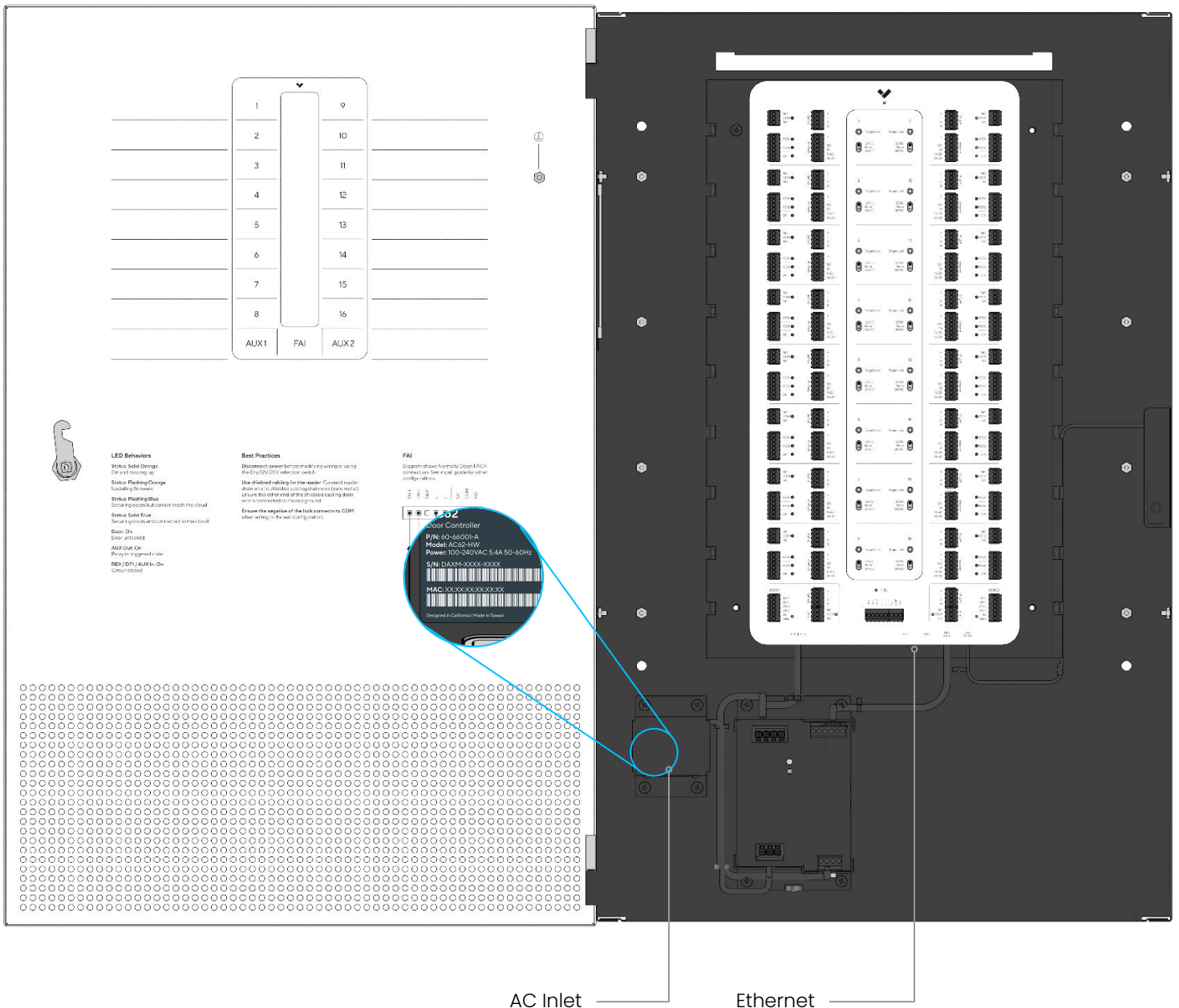
Installation

Connect

Connect the AC62 to your network using the Ethernet port located at the bottom of the controller.

Connect the AC62 power supply to your standard power outlet (100VAC - 240VAC).

To add the AC62 to your Verkada Command account, enter the serial number printed on the AC inlet (or the order number) to the "Add Device" page: command.verkada.com/add-device



Battery backup (Optional)

We recommend and sell a 24 volt 18Ah sealed lead acid rechargeable battery.

1. Secure a 12-14 AWG wire to the "BAT+" terminal on the UPS.
2. Secure the negative battery terminal's black wire to the "BAT-" terminal on the UPS.
3. Once you have ensured that both are connected properly on the UPS side, secure the 12-14 AWG wire to the battery positive terminal wire using a wire nut or WAGO connector.

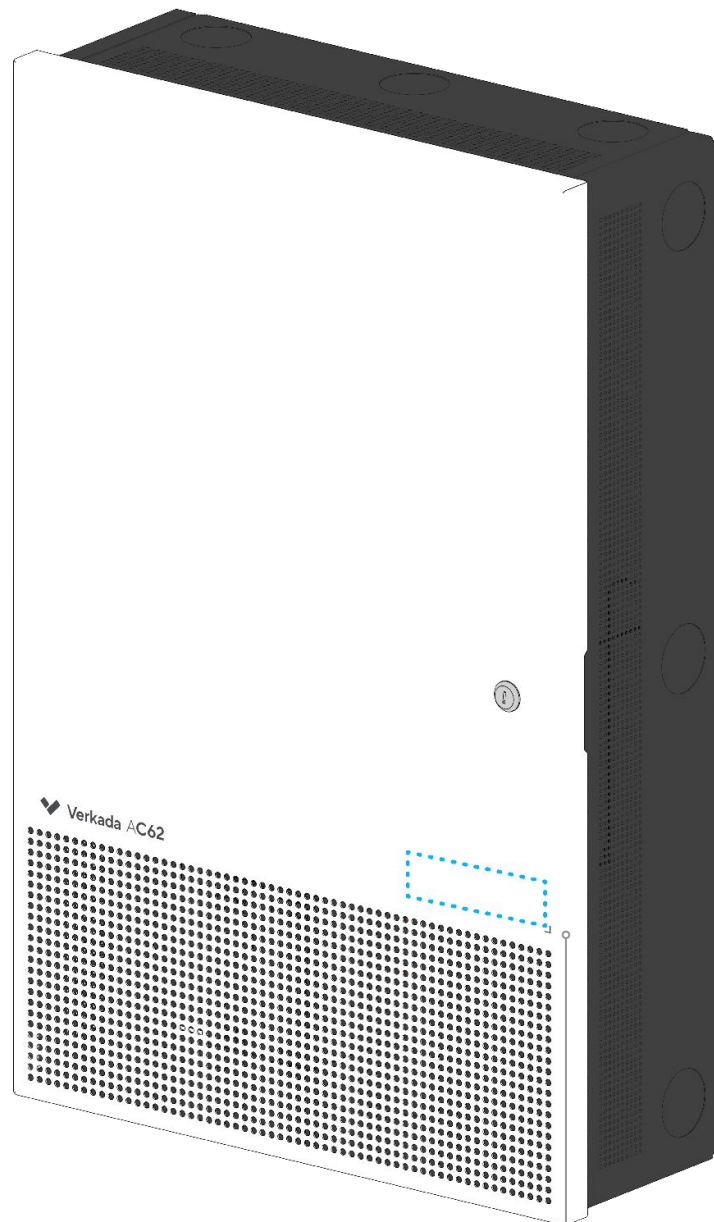
Failure to properly connect the battery may damage the device.



Installation

Labeling

Find the tick mark on the right side of the door, below the lock, and use it as a guide to place the label if needed.



Tick mark for
label placement



AC62 Compliance

FCC Statement	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. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
IC Statement	This device complies with ISED's licence-exempt RSSs. 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. Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.
Note	This equipment is for use in a restricted access area.
South Africa Compliance*	 TE-2025/0421 APPROVED



Appendix

Support

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,
The Verkada Team
verkada.com/support

