

Qoltec[®]

Model: 52440, 52441

INTRODUCTION

Thank you for your trust and for choosing the Qoltec combination lock. We are confident that the product will meet your expectations.

This manual will guide you through the installation and use of the unit. It contains important safety instructions for operation and correct installation. If you have any questions after reading the manual, please contact Customer Service.

ABOUT THE PRODUCT

The Qoltec brand code lock uses electronic encryption technology. It has several programming options. It supports up to 1000 users. It can be opened, for example, with an individual access code consisting of any combination of digits, if correct the lock releases the lock and unlocks access.

Our product has the highest rating for rain and dust resistance, IP68. We make sure that our brand's products are united not only by their design aesthetics, but also by their durability.

Features

- Support for up to 1,000 users
- Can be opened with individual access code, card, key fob, card + PIN
- It has a backlit digital keypad
- Equipped with bell and proximity card and key fob reader
- Designed with the highest rain and dust resistance rating IP68
- Made with attention to detail ensuring the durability of the product
- 2-year warranty on Qoltec combination locks

TECHNICAL SPECIFICATIONS

Model: 52440, 52441

No	Parameter	Value
1	Type	EM
2	Transmission type	RFID
3	Mode of operation	PIN code/card/key fob
4	Degree of protection	IP68
5	Doorbell button	Yes (for model 52440)
6	Nominal voltage	DC 12V
7	Frequency	125kHz
8	Number of relay outputs	One
9	Load	<100mA
10	Max. number of users	1000
11	Installation	Surface mounting
12	Proximity reader	Yes
13	Touch keyboard	Yes
14	Highlight	Yes
15	Reading range	<-6cm
16	Operating temperature	-30°C~60°C
17	Size of appliance (LxWxH)	134 x 48 x 25
18	Net weight of appliance (G)	195

Simplified instructions

Function	Action
Enter programming mode	* (admin code) # enter programming mode (777777 is the factory admin code)
Change of admin code	0 - new code - # - repeat new code - # (code: 6 digits)
Adding a user card	1 - Read card - # (can add cards continuously)
Adding a PIN code user	1 - User ID - # PIN - #

	(ID number: 0 - 999)
Delete user	2 - Read card - # for cardholder 2 - User ID - # for PIN or card user (ID number: 0 - 999)
Exit programming mode	*

INSTALLATION

1. Remove the rear cover from the unit using the screw.
2. Drill a hole in the wall that corresponds to the size of the rear of the unit and attach the rear cover to the wall.
3. Pull the cable through the cable hole, connect the appropriate cable. Separate unused cable with insulating tape.
4. Once the cables are connected, fit the front casing and fix the rear cover well with screws.

Markings shown in figure 1

Wiring

No.	Colour	Function	Description
1	green	NC	NC relay
2	brown	COM	COM relay
3	white	NO	NO relay
4	black	GND	Negative pole
5	red	DC+	10-24V DC power input
6	yellow	Opening	Exit request button
7	blue	Bell	External bell (for model 52440)
8	grey	Bell	External bell (for model 52440)

Sound and light signalling

STATUS	LED	SOUND
Standby mode	Bright red light	-
Entering programme mode	Red light on	-
In programming mode	Red light on	-
Open the lock	Bright green light	One beep

Unsuccessful operation		Three beeps
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Factory settings

Turn off the power, press the exit button, turn on the power, after 5 seconds you will hear one beep, the unit will enter standby mode, the factory reset is complete.

Note: Restoring the factory settings will not delete the user information.

Modification of the admin code

Function	Key combination	LED
Enter programming mode	* (Admin code) # (Factory set to 777777)	Red lights
Modification of the admin code	0 (New admin code) # (Repeat new admin code) #	Red lights
Exit programming mode	*	

Note: The length of the administrator code is 6 digits, the administrator should bear this in mind.

STAND-ALONE MODE

The wiring diagram can be seen in Figure 2.

Specially powered for access control.

Bell connection - diagram shown in figure 3.

How to open the lock

Open the lock with the card	(Read card)
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Open the lock with the user's PIN	(User's PIN) #
Open the lock with the user card + PIN	(Read card) (User's PIN) #

DC power supply for access control

Diagram outlined in Figure 4.

Note: The electro-locks must be connected to a diode (1N4004), otherwise the device may be damaged. The white end of the diode is connected to the positive pole of the electric lock and the other end to the negative pole of the electric lock.

Entering and leaving programming mode

Function	Key combination
Enter programming mode	* (Admin code) # (Factory set to 777777)
Exit programming mode	*

Adding users via the keyboard (ID number: 0-999)

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Adding a card: By card	1 (read card)	Lights up red
Adding a card: By ID number	1 (ID number) # (read card)	Lights up red
Adding a card: Users by PIN	1 (ID number) # (ID number) (4-8 digit PIN) # (repeat 4-8 digit PIN) #	Lights up red

	(repeat 4-8 digit PIN) #	
Exit programming mode	*	Red flashes

Attention:

1. When you add a user using a card, their ID will be added automatically and the ID number will be in the range (0-999).
2. When adding users with cards, PIN 1234 is automatically added. This PIN cannot be used to open the lock. If you want to open the lock with card + PIN, you should first change the old PIN 1234 by following the description in Changing PIN.
3. Do not add the prefix 0 to the ID number when adding a regular user. See Adding visiting users for details.

Adding visitors

Function	Key combination	LED
Enter programming mode	*(Admin code) #	Lights up red
Adding a guest card: By card	1 (read card)	Lights up red
Add a guest PIN for users	1 (ID number) # (1-9) # (4-8 digit PIN) # (repeat 4-8 digit PIN) #	Lights up red
Exit programme mode	*	Red flashes

Attention:

1. Range of visitor user ID numbers: 00-099. Total 100. The prefix 0 in front of the ID number indicates a visitor user.
2. Do not set the guest user password the same as the regular user password. If you set the same password, even if the guest password

expires, it will be treated as the password of the regular user and will open the lock.

3. The permission to open a lock by a guest can be set from 1 to 9. Each time the lock is opened, the permission to open the lock is reduced once. For example, if the permission to open a lock by a guest is set to 5, the user's lock will be automatically removed after it has been opened five times.

Access mode setting

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Access via PIN	3 0 #	Lights up red
Access via card + PIN	3 1 #	Lights up red
Access via card or PIN	3 2 # (Factory default setting)	Lights up red
Exit programme mode	*	Red flashes

Removing users from the keyboard

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Card removal: by card	2 (read the card)	Lights up red
Deletion of users: by ID number	2 (ID number) #	Lights up red
Deletion of all users	2 0000 #	Lights up red
Exit programming mode	*	Red flashes

Pulse and switching mode setting

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Pulse mode	4 (1-99) #	Lights up red
Mode switching	4 0 #	Lights up red
Exit programming mode	*	Red flashes

Attention:

1. The factory default setting is pulse mode and the access time is 5 seconds. If you set the access time to '0', the unit will operate in toggle mode.
2. Impulse mode: The lock will be automatically closed after prolonged opening.
3. Toggle mode: In this mode, once the lock is opened, the lock will not be automatically locked until the next time the user correctly enters the code. This means that you must insert an active card or enter an active PIN code to open or close the lock.

Set safe mode

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Normal mode	6 0 # 0 # (Factory setting)	Lights up red
Lock mode	6 0 # 1 #	Lights up red
Exit programme mode	*	Red flashes

Attention:

Lock mode: If an unauthorised user swipes the card/PIN 10 times within 1 minute, the device will be locked for 10 minutes. When the device is re-powered, the lock will be cancelled.

Tamper alarm setting

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
To close the tamper alarm	6 1 # 0 # (Factory default setting)	Lights up red
Tamper alarm activation	6 1 # 1 #	Lights up red
Exit programme mode	*	Red flashes

Attention:

When the tamper alarm is activated, if the keypad housing is illegally opened, the keypad buzzer, controller and external alarm will sound simultaneously. The alarm lasts for up to 1 minute. The alarm can be deactivated if the enclosure is closed, the administrator password or active user password is entered, or the alarm time expires.

Sound control

Function	Key combination	LED
Enter programming mode	* (Admin code) #	Lights up red
Keyboard sounds: OFF	7 0 #	Lights up red
ON	7 1 # (Default)	Lights up red
Exit programme mode	*	Red flashes

USER SETTINGS

Change of PIN

Function	Key combination
Changing the PIN code assigned to card users	* (Read card) (Old PIN) # (New PIN) # (Repeat new PIN) #
Change of independent PIN code	* (ID number) # (Old PIN) # (New PIN) # (Repeat new PIN) #

Note: The PIN can be changed to any 4-8 digits, but it cannot be '1234', and the PIN attached to the card is only used in card + PIN access mode.

Immediate blocking

Press **(0 #)** the relay in the controller will be released, locking the lock.

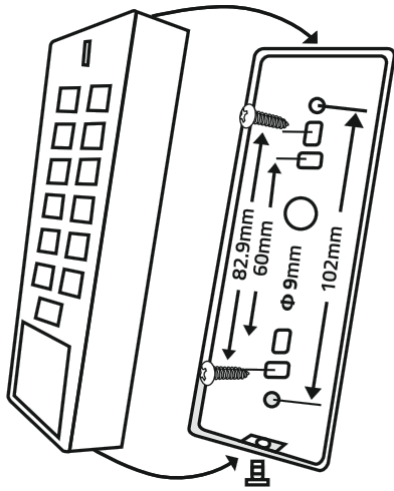
Attention:

Set the access time to 10 seconds. Unlock and lock the lock after 3 seconds the lock will not be locked due to the set locking time.

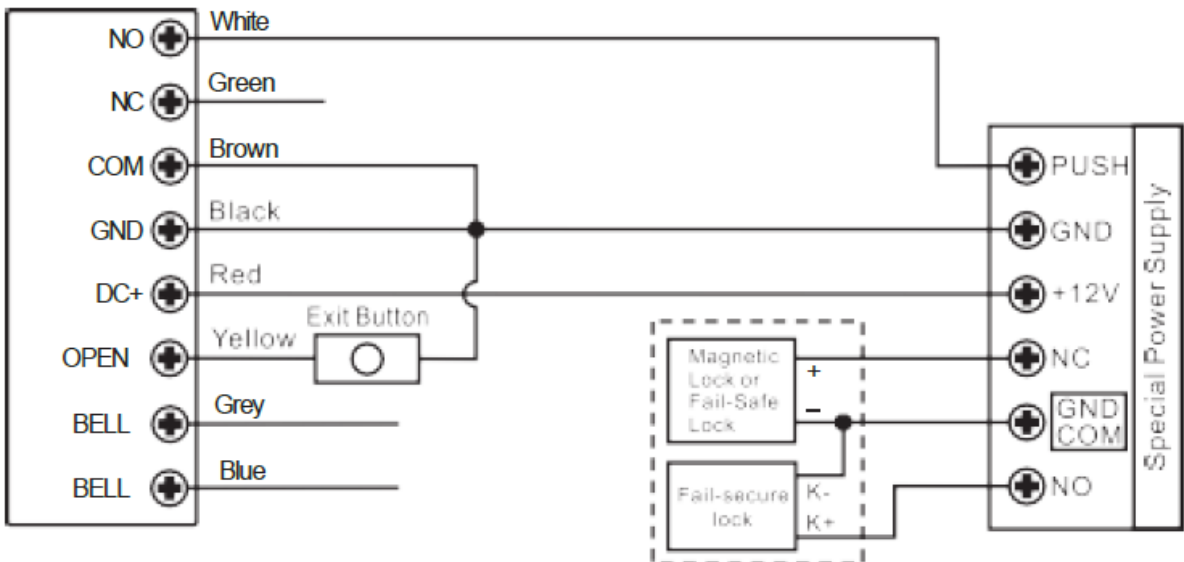
If you wish to lock the LOCK at this point, press **0#**.

ATTACHMENT

1.



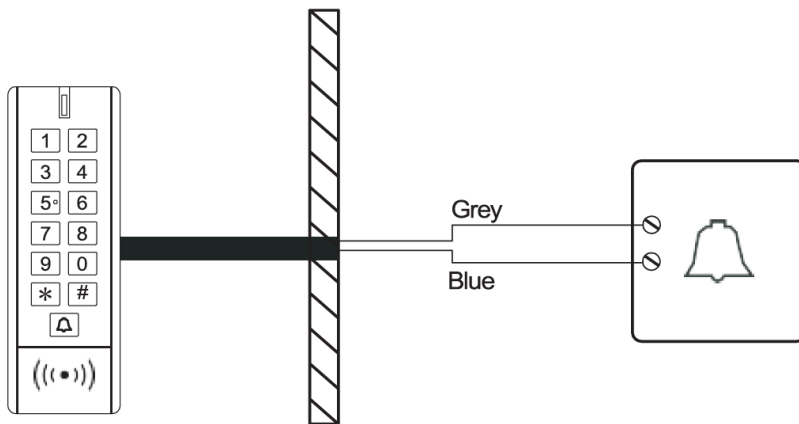
2.



3.

Outdoor

Indoor



4.

