

Qoltec®

Model: 52445

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 device is a stand-alone, multifunctional access controller for a single door, a keypad with Wiegand output or a card reader. It is suitable for both indoor and outdoor installation in harsh environmental conditions. The unit is housed in a sturdy, robust and vandal-proof galvanised zinc alloy housing, which is available in silver or matt finish. The electronics are fully insulated.

The device supports up to 2,000 users in card, 4-digit PIN or card + PIN mode. The built-in card reader supports EM 125KHZ cards and 13.56MHz Mifare cards. The device has a number of additional features including lock output current short circuit protection, Wiegand output and a backlit keypad. These features make the device an ideal choice for door access not only in small shops and households, but also in commercial and industrial applications.

Product features

- Robust vandal-proof housing made of galvanised zinc alloy
- Fully programmable from the keyboard
- 2000 users, card, PIN, card+PIN support
- Can be used as a standalone keyboard
- Illuminated keys
- Wiegand 26 input for connection to an external reader
- Wiegand 26 input for connection to the controller
- Adjustable exit time, alarm time, door opening time
- Short-circuit protection of the output current
- Simple installation and programming
- Built-in light sensor (LDR) to protect against intruders
- Built-in buzzer

- Coloured LEDs indicating operating status

Brief programming instructions

Action	Comments
To enter the programming mode	* Administrator code # 999999 is the default master code
Exit programming mode	*
Note: To perform the following actions, the root user must be logged in	
Change of master code	0 New code # New code # The master code may contain from 6 to 8 digits
Adding a PIN user.	1 User ID number # PIN # The ID number is any number between 1 and 2000. The PIN code is any four digits between 0000 and 9999, except 1234, which is restricted. Users can be added continuously without leaving the programming mode
Creation of a card user	1 Read card # Cards can be added continuously without leaving the programming mode
Deletion of PIN or card user.	2 User ID number # For the PIN code user 2 Read card # Users can be deleted continuously without leaving the programming mode
Door unlocking by user with PIN code	Enter and PIN press # .

Door unlocking by cardholder	Apply the card
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TECHNICAL SPECIFICATIONS

Technical specifications

No	Parameter	Value
1	Nominal voltage	DC 12 - 24V
2	Number of users	2000
3	Card reading range	3 - 6 cm
4	Load	<60mA
5	Load on the lock relay	Max 3A
6	Load on the alarm relay	Max 20A
7	Operating temperature	-40 - 60
8	Operating humidity	10% - 90% RH
9	Lock opening time adjustment	0-99 seconds
10	Alarm duration adjustment	0-3 minutes
11	Wiegend interface	Wiegend 26 bit
12	Cable connections	Electric lock, door release button, external alarm, external reader
13	Type	EM
14	Transmission type	RFID
15	Degree of protection	IP68
16	Frequency	125kHz

INSTALLATION

- Remove the back cover of the keyboard using the screwdriver provided
- Drill 2 holes in the wall for the winding and a hole for the cable
- Insert the supplied rubber pins into the holes
- Fix the back cover firmly to the wall with screws
- Pull the cable through the hole
- Attach the keyboard to the back cover

Cable connection

No .	Colour	Function	Description
1	pink	BELL_A	Doorbell button (first line)
2	light blue	BELL_B	Doorbell button (second line)
3	green	D0	WG output D0
4	white	D1	WG output D1
5	grey	ALARM	Alarm - (alarm + connect to 12 V+)
6	yellow	OPEN	Opening button, first cable (connect second cable to GND)
7	brown	D_IN	Magnetic lock, first cable (other end connected to GND)
8	red	12V+	12V + DC
9	black	GND	12V - DC
10	blue	NO	Normally open (connect "normally open" lock "-")
11	violet	COM	Common terminal of the relay, connect to GND
12	orange	NC	Normally closed (connect "normally closed" lock "-")

The diagram in **Figures 1** (typical power supply diagram) and **2** (detailed power supply diagram) will help to connect the wires properly.

Restore factory settings

- Disconnect the power supply from the device
- Press and hold the **#** key while powering up the device again
- Release the **#** button after hearing two beeps, the factory settings will be restored.

Note: only installer data is restored, user data will not be changed.

Anti-removal alarm

The device uses the LDR (light sensor) as an anti-removal alarm. If the keypad is removed from the cover, the anti-removal alarm will sound.

Sound and light signalling

STATUS OF OPERATIONS	RED LIGHT	GREEN LIGHT	YELLOW LIGHT	BRZĘCZYK
On	-	shines	-	signal
Standby	shines	-	-	-
Pressing the keyboard	-	-	-	signal
Successful operation	-	shines	-	signal
Unsuccessful operation	-	-	-	3 signals
Enter programming mode	shines	-	-	-
In programming mode	-	-	shines	signal
Exit programming mode	shines	-	-	signal
Opening the door	-	shines	-	signal
Alarm	shines	-	-	alarm

DETAILED PROGRAMMING INSTRUCTIONS

Correct programming of the combination lock will guarantee effective use in accordance with your expectations. We provide a detailed programming guide.

Action	Comments
Enter programming mode	* Administrator code # 999999 is the default master code
Exit programming mode	*
Note: To perform the following actions, the root user must be logged in	
Change of master code	0 New code # New code # The master code may contain from 6 to 8 digits
Mode setting:	
Access by card users alone	3 0 # Entry by card only
Card and PIN user access	3 1 # Entry by insertion of card and PIN code
Card or PIN code user access	3 2 # Entry by card insertion or PIN (default)
3 2 # Adding a user in card or PIN mode	

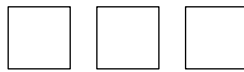
Adding a PIN user	0 User ID number # PIN # The ID number is any number between 1 and 2000. The PIN code is any four digits between 0000 and 9999, except 1234, which is restricted. Users can be added continuously without leaving programming mode as follows 1 User ID No. 1 # PIN User ID No. 2 # PIN #
Deletion of PIN user	2 User ID number # Users can be deleted continuously without leaving the programming mode.
Changing the user PIN code (This operation has to be performed outside of the programming mode)	0 ID # Old PIN # New PIN # New PIN #
Adding a user card Method 1: This is the fastest way to enter cards, with automatic generation of a user ID number	1 Read card # Cards can be added continuously without exiting programming mode.
Adding a user card Method 2: This is an alternative way of entering cards using the user ID assignment function. A user identifier is assigned to the card. Only one identifier may be assigned to one card	1 ID # Read card # A user can be added continuously without leaving the programming mode.
Adding a user card Method 3: The card number is the last 8 digits on the back of the card, the user ID number is generated automatically	1 Card # A user can be added continuously without leaving the programming mode.

Adding a user card Method 4: In this method, the user ID is assigned to the card number. Only one user identifier may be assigned to a card number	A user can be added continuously without leaving the programming mode.
Card-by-card deletion of users. Note users can be deleted continuously without leaving the programming mode	2 Read card #
Deletion of a card user by user ID. NP. when a user has lost their card.	2 User ID #
Deletion of card user by card number. E.g. when a user wants to make a change but the card has been lost	2 Card # Note: users can be deleted continuously without leaving the programming mode
Adding a user in Card ora PIN mode	
Adding a user with a card and PIN (PIN is any four digits between 0000 and 9999, except 1234, which is restricted).	Add a card as for a card user. Press to exit [*] the programming mode. Then give your card a PIN code as follows * Read card 1234# PIN PIN
Changing the PIN code in card and PIN code mode (method 1) Please note that this operation is performed outside of the programming mode, so the user can perform it himself	PIN # New PIN # New PIN #
Changing the PIN in card and PIN mode (method 2) Note that this is done outside of programming mode so that the user can do it themselves	* ID # Old PIN # New PIN # New PIN #
Deletion of card user and PIN, simply delete the card	2 User ID #

30# Adding a card user in card mode	
Adding and deleting a card user	The operation is the same as adding and deleting a card user 32#
Deletion of all users	
Deletion of all users. Note: this is a dangerous option and should be used with caution.	20000#
Door unlocking	
PIN code users	Enter the PIN and press #
Card users	
Card and PIN code users	Read card Enter the PIN and press #

Door configuration

Output delay time	
Setting the response time of the door relay	* Administrator code # 4 0- # * 0-99 is the setting of the door relay time 0-99s.
Door opening detection Door too long open warning (DOTL). When using a lock with optional magnetic contact	



or built-in magnetic contact, if the door is opened but not closed after 1 minute, an internal buzzer will sound an automatic tone to remind you to close the door.

Warning of forcible door opening. When using a lock with optional magnetic contact or built-in magnetic contact, if the door is forcibly opened, both the internal buzzer and the alarm output signal will sound. The duration of the alarm output signal can be set between 0-3 minutes. (default is 1 minute)

Disable door opening detection (default).



Activation of door opening detection



Signal time at alarm output

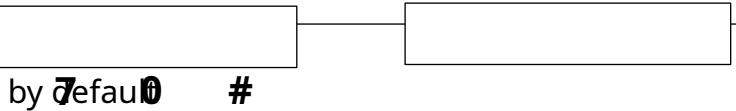


Setting of the duration of the alarm signal (0-3 minutes). Default is 1 minute.

6 0-3 #

Keypad lock and alarm output options. If 10 invalid PIN numbers are entered within 10 minutes or 10 invalid cards are applied, the keypad will be locked for 10 minutes and a buzzer and alarm may sound for 10 minutes (depending on settings).

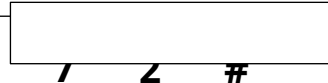
No keypad lock or alarm (default)



Keypad lock



Alarm and internal buzzer



Alarm deactivation

Alarm deactivation after forcible door opening

or Read the Admin code #

Deactivation of the open door warning

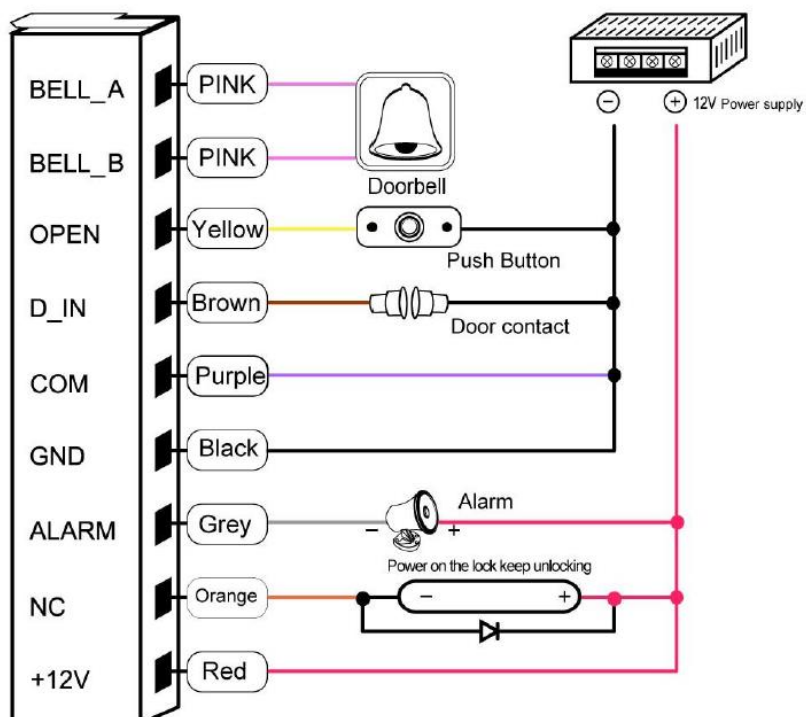
Close the door or Read the Admin code #

DEVICE ACTING AS A WIEGEND OUTPUT READER

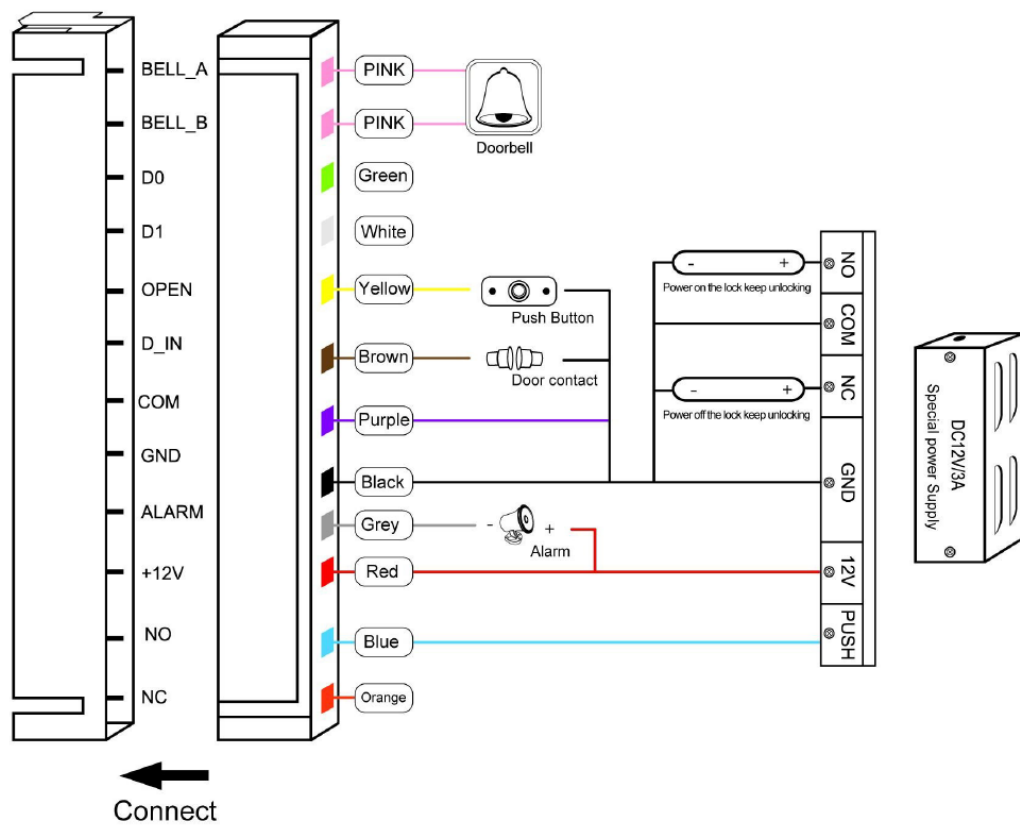
In this mode, the device supports a 26-bit Wiegand output, so the Wiegand data lines can be connected to any controller that supports a 26-bit Wiegand input. The diagram can be seen in Figure 3.

ATTACHMENT

1.



2.



3.

