

***Qoltec***<sup>®</sup>

**Model: 52440, 52441**

## INTRODUCTION

Thank you for your trust and for choosing the FEBE Qoltec combination lock. We are convinced 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 FEBE combination lock by Qoltec uses electronic encryption technology. It has several programming options. It supports up to 1,000 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. It is resistant to external factors such as dust and moisture. We make sure that our brand's products are united not only by their design aesthetics, but also by their durability.

### Product features

- Support for up to 1,000 users
- Can be opened with individual access code, card, key fob, card+PIN
- Equipped with backlit digital keypad and card and key ring reader
- Designed with the highest rain and dust resistance rating IP68
- Supports proximity cards and key fobs operating at 125kHz
- Made with attention to detail to guarantee the durability of the product
- 2-year warranty on Qoltec combination locks

## SPECIFICATION

### Technical specifications

<b>N o.</b>	<b>Parameter</b>	<b>Value</b>
1	Card type	EM(ID) card(IC card for options)
2	Mode of operation	Card, PIN + common PIN

3	Nominal voltage	DC 12V±10%
4	Load	< 100mA
5	Max. number of users	1000
6	Keyboard	Yes
7	Proximity reader	Yes
8	Reading range	1-15cm
9	Ambient temperature	°C0-°C60
10	Moisture	20%-80%
11	Programming code	123456
12	Degree of protection	IP68
13	Installation	Surface mounting
14	Dimensions	120×78×22(mm)
15	Net weight	110g

### Factory default settings

<b>Default password</b>	123456	<b>Common slogan</b>	No
<b>Highlight</b>	Automatic (optional)	<b>Lock unlocking time</b>	5 seconds
<b>W26 port</b>	Input (optional)	<b>Safety mode</b>	disabled
<b>Opening mode</b>	Card or password access. The access password includes a private access password (PIN) and a common access password.		

### Light and sound signalling

Meaning of light signals	States
Red light flashes every 1s (slow)	Standby
The red light is always on	Programming status
The green light is on during the opening	Unblocking status
Green light flashes every 0.5s (fast)	Awaiting further action

### Sound: beep

Description	Indications
1 short signal	Correct input
3 short signals	Incorrect input

1 long signal	Programming
Continuous signal	Resetting the factory programming password

## INSTALLATION

To install the FEBE combination lock correctly, refer to the information in the table below and **Figure 1**.

No .	Designation	Colour	Function
1	+12V	red	Power+
2	GND	black	Power-
3	PUSH	blue	Low output level
4	OPEN	yellow	Door release
5	BEL+	grey	High level input
6	BEL-	white	Output voltage
7	DATA0	green	WG DATA0
8	DATA1	white	WG DATA1
9	NC	brown	Relay output NC
10	COM	blue	Relay output COM
11	NO	violet	Relay output NO

**Note:** If the relay drives an electric lock, the reverse diode must be connected with the "+" and "-" poles of the lock.

## PROGRAMMING MANUAL

### Detailed programming manual

Default programming password: 123456, all passwords can be 3-6 digits long.

	Objective	Action	Comments
<b>Basic functions</b>	Changing the programming password	# programming password # 0 new programming password # new	If the programming password has been lost, <b>go to the description under the table</b> to restore the factory settings (123456).

		programming password #	
	Add a user card	# programming password # 1 card reading #	If multiple cards are added, the cards should be read continuously.
	Set a common access password	# programming password # 21 card reading #	There is only one common access password. Opening method: Common Access Password #.
	Delete all users	# programming password # 40 0000 #	Remove all cards and PIN except the common access password.
	Remove the user by reading the card	# programming password # 41 card reading #	If multiple cards are deleted, read the cards continuously.
<b>Enhanced functions</b>	Add a private access password (PIN)	# programming password # 22 PIN #	There may be more PINs. Door unlocking method: PIN #.
	Add a card by entering the card number.	# programming password # 23 enter card number #	Card number 10 or 8 digits, automatic identification.
	Add a multi-card by entering the card range number.	# programming password # 24 enter card start number #	The number of cards is 4-digit (to add 20 cards at a time, enter 0020).
	Add "+PIN card"	# programming password # 3 card PIN reading #	If you need to change your PIN, <b>go to the description below the table.</b>
	Delete a user by entering his/her ID number	# programming password # 42 enter user ID #	User ID number information - <b>go to the description below the table.</b>
	Delete a user by entering their card number	# programming password # 43 enter card number #	The card number is 10 or 8 digits, automatic identification.
	Remove user by entering PIN	# programming password # 44 enter PIN #	The PIN consists of 3-6 digits.
	Delete all user PINs	# programming password # 45 1111 #	User PINs must be used (not applicable to card users and card+PIN users).
	Change the opening time	# programming password # 5 XX #	XX can be a two-digit number with a maximum of 99. If 00 is entered, the signal output time is 0.2s.
	Set opening	# programming	XX can be set to 01 (card only)/ 02 (card

mode	password # 6 XX ## password	or access password)/ 03 (card+PIN).
Reader settings (optional)	# programming password # 6 04 ## password	The device can be used as a reader (W26 output).
Safety function settings	# programming password # 7 #	XX can be set to 01/02 (safety function OFF/ON) and 03/04 (disassembly alarm OFF/ON).
Setting the alarm before dismantling	Note: enabling the security function will lock the system for 5 minutes if the wrong card is continued to be read or the wrong access password is entered 10 times.	
Backlighting setting (optional)	# programming password # 8 XX #	XX can be 01/02/03 (Normal ON / Normal OFF / Auto).
Restore factory defaults	# programming password # 8 99 #	With the exception of the programming password and the manager card.
Set the master card	# programming password # 91 MAC reading MDC reading ##	Loading a card for the first time sets it as the master card and loading it again removes the master card.
Cancel override card	# programming password # 92 #	MAC: Adding master card, MDC: cancelling master card

### Resetting the factory programming password 123456

1. Switch off power supply and connect wires 2&3 RST(S1)
2. Turn on the power and the buzzer will sound 3 long beeps and the green light will flash rapidly. If you need to set a manager card, read out two blank cards: the first as a manager add card and the second as a manager delete card.
3. Switch off the power, disconnect wires 2&3 and connect wires 1&2 of the RST system.
4. Switch the power back on.

### How to use the mastercard - MAC&MDC

Objective	Action
To add a card user in standby mode	MAC READ >> NEW CARD READ >> MAC READ

To delete a card user in standby mode	READING MDC >> READING REGISTERED CARDS >> READING MDC
To delete all users in standby mode	MDC READ >> MAC READ >> MDC READ

### **User identification number**

The user ID is an automatically generated 4-digit number starting from 0001. This number increases as users are added and does not take into account the deletion of users. The common access password does not have an ID.

### **How to change PIN (in open mode: card+PIN)**

After reading the card and entering the PIN code, within 5 seconds press and hold the # button until the green LEDs start flashing rapidly and then enter the sequence according to the table below.

<b>Objective</b>	<b>Action</b>
To change PIN (open mode: card+PIN)	NEW PIN #

The setting of the new PIN will be signalled by a sound.

1.

