H5023

GoSmart code keypad

Table of Contents

Safety instructions and warnings

Before using the device, read the instructions for use.

Observe the safety instructions in this manual.

EMOS spol. s r.o. declares that the product H5023 complies with the essential requirements and other relevant provisions of the directives. The equipment can be operated freely in the EU.
The Declaration of Conformity can be found on the website http://www.emos.eu/download.
The equipment can be operated on the basis of general authorisation No. VO-R/10/07.2021-8 as amended.

Contents of the package
Code keypad
User manual
Screwdriver
2× rubber insert
3× screws

78 mm

23 mm

115 mm

Technical Specifications
Power supply: DC 12-24V
Dimensions: 23 × 78 × 115 mm
Communication protocol: 2.4 GHz WI-FI (IEEE802.11b/g/n)
Operating temperature: -45 °C to 60 °C
Operating humidity: ≤ 90% RH Maximum number of users: 2000
IP protection: IP68
APP: EMOS GoSmart for Android and iOS

Notice

2.4 GHz   5 GHz
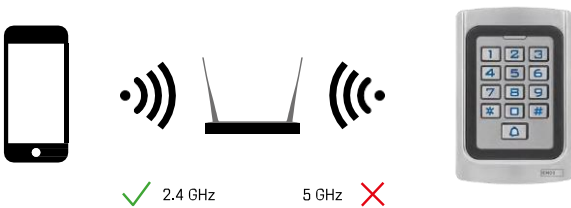
The keyboard only supports 2.4GHz Wi-Fi (does not support 5GHz).

Description of the device
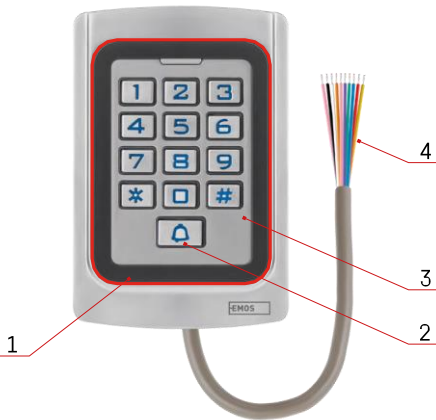
1 - RFID chip honouring area
2 - Bell button
3 - Keyboard
4 - Cabling

Description of cabling

Colour	Functions	Description
Pink	BELL_A	One end of the contact to the gong (bell)
Pink	BELL_B	The other end of the contact to the gong (bell)
Green	D0	Wiegand output D0 (for external readers)
White	D1	Wiegand output D1 (for external readers)
Yellow	EXIT	Contact for EXIT button. The other end connects to GND. (Connecting to GND unlocks the lock)
Red	12V+	Power supply 12V+ DC
Black	GND	Grounding 12V - DC
Blue	NO	NO contact
Violet	COM	COM contact
Orange	NC	NC contact

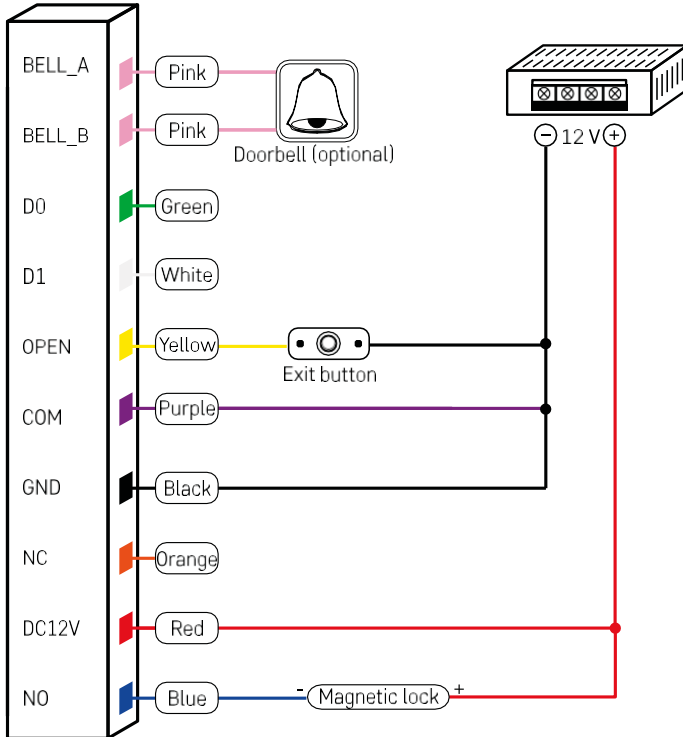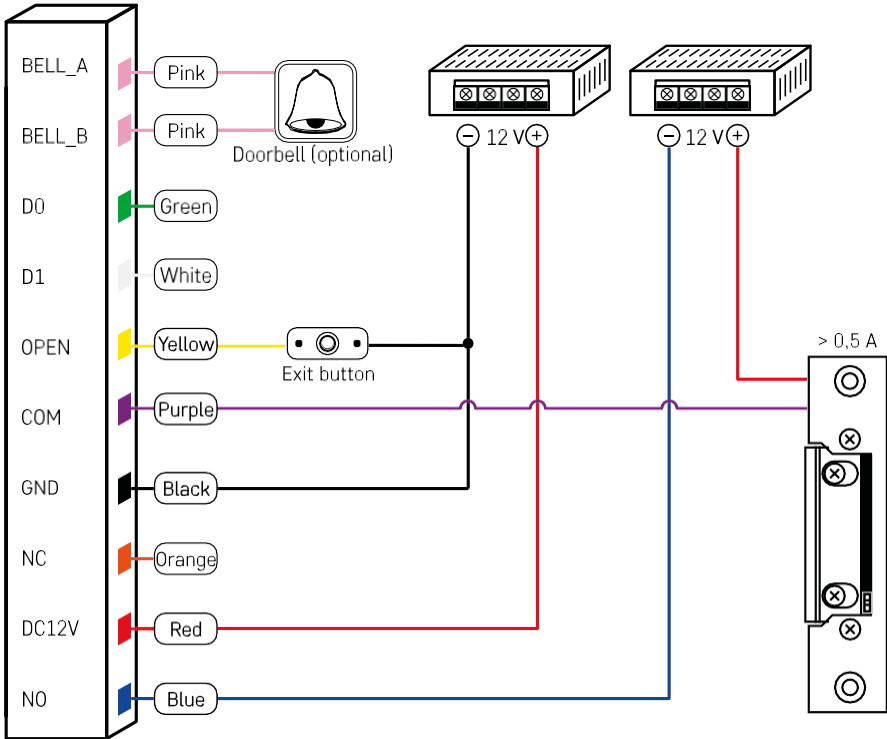# Installation and assembly
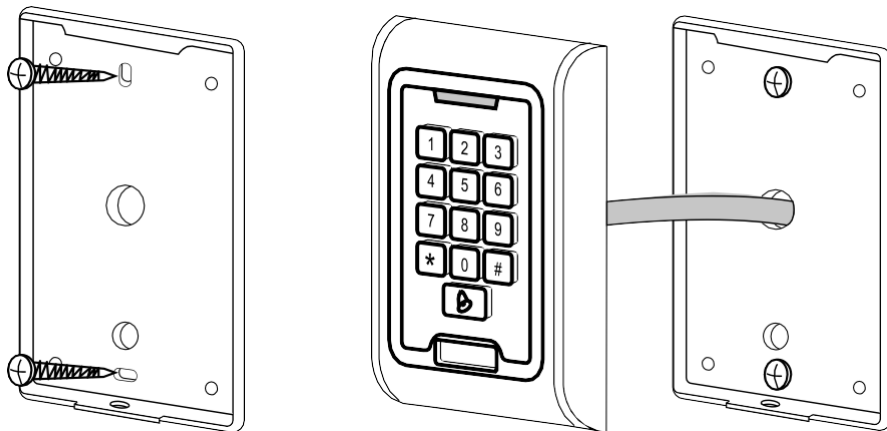
1. Screw the back cover on using the screws provided. The cabling must be ready before installing the keyboard.
2. Connect the cables according to your needs.
3. Place the keyboard on the back cover and screw it in place using the bottom bracket.
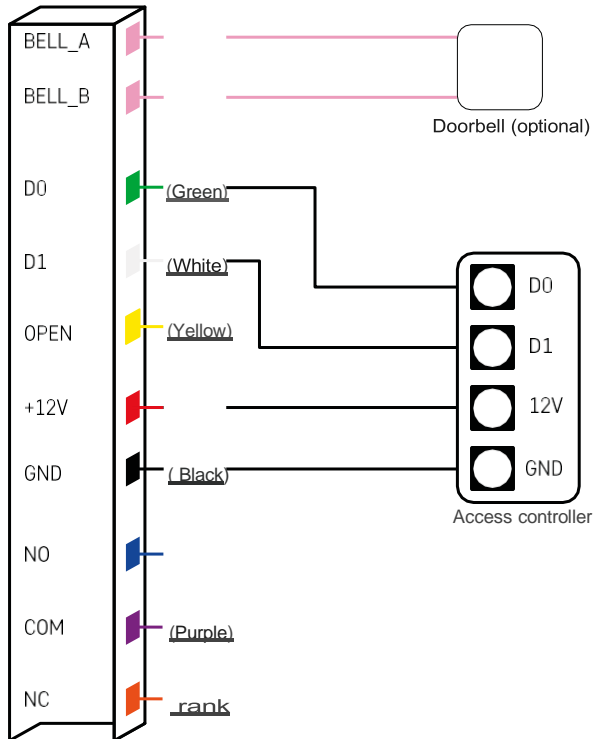
Connecting the cabling

Basic wiring diagram

BELL_A	Pink	
BELL_B	Pink	Doorbell (optional)
D0	Green	
D1	White	
OPEN	Yellow	Exit button
COM	Purple	
GND	Black	
NC	Orange	
DC12V	Red	
NO	Blue	Magnetic lock

The most basic keyboard wiring with lock, exit button and possibly external gong (pink cables). However, this wiring is only possible when using a lock with low power consumption (< 0.5 A). From the EMOS range, the C0030 lock can be used. The use of a lock with a higher consumption requires an additional power supply (shown in the following diagram).

BELL_A — Pink
BELL_B — Pink
Doorbell (optional)

D0 — Green
D1 — White
OPEN — Yellow — Exit button
COM — Purple
GND — Black
NC — Orange
DC12V — Red
NO — Blue

12 V (−) (+)   12 V (−) (+)

> 0,5 A

External reader connection - Wiegand

BELL_A

BELL_B

Doorbell (optional)

D0 (Green)

D1 (White)

OPEN (Yellow)

+12V

GND (Black)

NO

COM (Purple)

NC rank
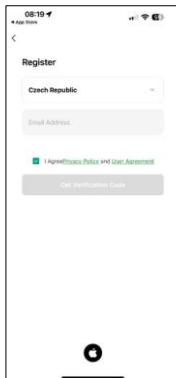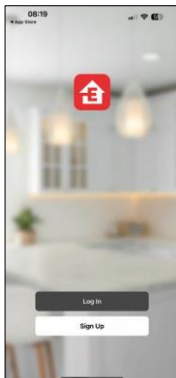
D0

D1

12V

GND

Access controller

Pairing with an app

Installing the EMOS GoSmart app

The app is available for Android and iOS via Google play and the App Store. To download the app, please scan the relevant QR code.

### Steps in the EMOS GoSmart mobile app

Open the EMOS GoSmart app and confirm the privacy policy and click I agree. Select the registration option.
Enter the name of a valid email address and choose a password.
Confirm your consent to the privacy policy. Select register.
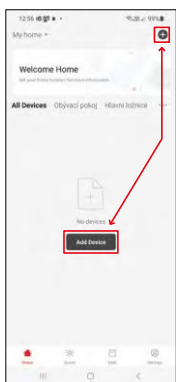
Select Add device.
Select a GoSmart product category and select the IP-006AX
Enter the name and password of your Wi-Fi network. This information remains encrypted and is used to allow the keyboard to communicate with your mobile device remotely.
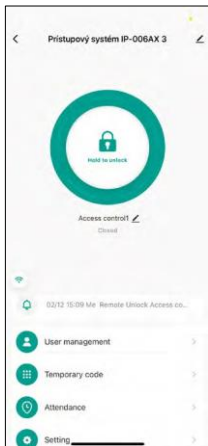
Turn on the keypad and reset it by entering the code: * -> Master code (default: 999999) -> 73 -> #. The LED should flash green.
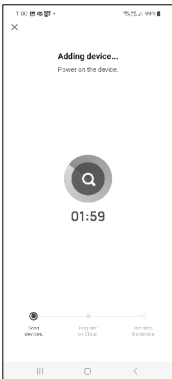

The device will be automatically searched. After pairing, the keyboard can be renamed.

Icons and indicator lights

(Remote keypad unlock and lock button icon)	Remote keypad unlock and lock button
Access control1 ✎	Keyboard naming and the ability to rename the keyboard
Closed	Current lock status (Locked/unlocked)
✎	Additional settings
02/12 15:09 Me Remote Unlock Access co...	Record of events
(User management icon)	User management
(grid icon)	Setting a one-time code (a universal permanent code can also be set)
(location icon)	Attendance setup and tracking (Feature is currently under development, instructions will be added later)
(settings gear icon)	Settings - You can enable or disable remote unlocking and set member rights to this style of unlocking
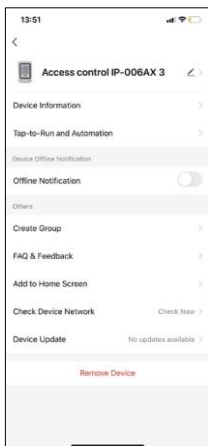
Explanation of additional settings

- Device information - Basic device information
- Tap-To-Run and Automation - scenes and automations assigned to this device (however, automations performed by the button itself are not displayed)
- Offline notification - Notification when the device is offline for more than 8 hours (e.g. power failure)
- Create Group - create a group of similar devices (Better for lights, for example grouping all lights in a kitchen)
- Faq and Feedback - Frequently Asked Questions and Feedback
- Add to Home screen - Create a device icon for your phone's main menu
- Check Device Network - Check Wifi network functionality
- Device Update - Device Update
- Remove Device - evaporating the device

User management
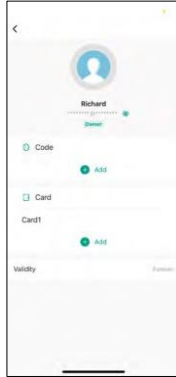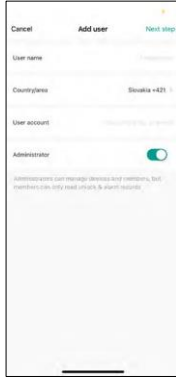
Users can be added using the "+" icon. If the user has created an account in the EMOS GoSmart application, then in the "User Account" field, just enter the mail to which this account was created and you can easily link the lock control with its application (Each administrator must have his own account). Regular users can also be added either by using an account or by simply entering a name.

When you click on a user, a menu appears to add and manage the RFID codes and chips associated w i t h that account. Codes and chips can be added using the "+" button.

Record of events

The record stores all activities related to opening and locking the lock. This makes it easy to see who opened the lock, when and with what. If you have a chip or code that is not associated with a specific user, use the " Associate.." button. (button to associate a code or chip with a previously created user.

Managing temporary PINs

If you need to create a universal code (e.g. for a visitor) to open the lock, you can use the temporary code setting.

First, you need to choose whether the code is permanent or one-time. For a permanent code, you can specify the length of validity of the code and you will be able to open it until it expires. A one-time code will be erased once entered on the keypad and cannot be used again.

Setting permissions for remote unlocking

In this setting, you can easily enable or disable phone unlocking and also specify whether only administrators or regular users can unlock in this style.

Controls and functions

Keyboard settings

Setting up the keypad is done either from the app or by entering numeric codes directly into the keypad. All codes can be found in the table below:

Action	Code	Description
PIN unlocking	PIN #	
Enter programming mode	* Master #	In the factory settings, the master code is 999999 We strongly recommend changing it after setting all the necessary parameters.
Exit from the programming mode	*	Return to normal keyboard operation
To start pairing with an application	7 3 #	After entering the code, the LED will flash green and the device will be found using GoSmart Applications
You must be in programming mode before entering any of the following codes!		
Changing the master code	0 New code # New code #	The main code must be 6 characters long
Mode 1: Input only with RFID chip	3 0 #	Only people with a valid RFID chip will be allowed to enter
Mode 2: RFID chip input and at the same time the code	3 1 #	Entry will be granted only after the chip is attached **and the following** entry is made code
Mode 3: Input with RFID chip or code	3 2 #	Entry will be granted only after attaching a chip **or** by entering the code
Member management in mode 3 (RFID or PIN - 32#)		
Adding a member with a PIN code	1 User ID # PIN #	The member ID can be any number between 1 a 2000. PIN can be from 0000 to 999999, outside 1234.

Action	Code	Description
Quickly add more members	`1` `User_1 ID` `#` `PIN` `#` `User_2 ID` `#` `PIN` `#` ...	
To delete an individual member's PIN code	`2` `User ID` `#`	
Change PIN code (outside programming mode)	`*` `User ID` `#` `Old PIN` `#` `New PIN` `#` `New PIN` `#`	

Action	Code	Description
Adding an RFID chip - method 1	`1` `Read RFID` `#`	By not entering the member ID in this method, the keyboard assigns chips to members automatically from 1 to 2000
Adding an RFID chip - method 2	`1` `User ID` `#` `Read RFID` `#`	1 member ID = 1 RFID chip
Erasing the RFID chip	`2` `Read RFID` `#`	
Deleting a member	`2` `User ID` `#`	
Deleting all members	`2` `0` `0` `0` `0` `#`	Erases all PINs and RFID chips. However, it does not delete the public PIN.

Member management in mode 2 (RFID and PIN - 31#)

Action	Code	Description
Adding RFID chip and PIN (0000 - 999999 off 1234)	`6` `Read RFID` `New PIN` `#`	
Changing the PIN assigned to the RFID chip (outside the programming mode) - method 1	`*` `Read RFID` `New PIN` `#` `New PIN` `#`	
Changing the PIN assigned to the RFID chip (outside the programming mode) - method 2	`*` `User ID` `#` `Old PIN` `#` `New PIN` `#` `New PIN` `#`	
To delete a PIN code and the assigned RFID chip	`2` `User ID` `#`	

Member management in mode 1 (RFID only - 30#)

Adding an RFID chip - method 1	**1 Read RFID #**	
Adding an RFID chip - method 2	**1 User ID # Read RFID #**	
Other options		
Creating a universal (public) PIN	**9 New PIN #**	Anyone with a public code will be able to unlock
To delete a universal (public) PIN	**9 #**	
Action	Code	Description
Mode setting: relay time switching	**5 0 #**	When opened, the lock will lock after a set time.
Lock relay trip length	*** Master # 4 0~99 #**	0~99 - seconds setting
Mode settings: Manual locking	**5 1 #**	After opening, the lock remains unlocked and can only be locked by reloading the chip or by entering a code.
Switching on the WG26/34 reader's Wiegand mode	**5 2 2 6/3 4 #**	

Description of keypad sound and light signaling

Status	LED	Sound signalling
Standby mode	Glows red	-
Pressing a key		Beep
Successful operation	Green	Beep-
Unsuccessful operation		Beep-Beep-Beep
Enter programming mode (*)	Slowly flashing red	Beep-
Programming mode	Slowly flashing red	
Exiting programming mode	Problikne green	Beep-
Opening the lock	Green	Beep-

Exporting and importing data to and from the second keyboard

If you need to transfer data such as PIN codes, added RFID chips, settings, etc. to a second keypad (e.g. for another entrance), the keypad allows the transfer of this data using the backup function.

First you need to connect the green and white cables of both keyboards (i.e. green to green and white to white). Keyboard A: Original keyboard with all data.
Keyboard B: The second keyboard to which the data will be uploaded.

The first step is to enter the following code on keypad B:

* Master # 7 1 #

And then on the A key this code:

* Master # 7 0 #

Both keypads will flash green during the data transfer and remain red when the transfer is complete.

Programming MASTER and DELETE chips

If you need to program a large number of chips at once or add or remove chips periodically, you can create 2 master chips, which simplifies the process greatly so you don't have to enter programming mode each time you program.

It is necessary to allocate 2 RFID chips to be used as MASTER and DELETE (we recommend to distinguish them by color), and then restore the unit to factory settings. The reset should not erase any pre-programmed PINs or chips. This is done using the code erase function described above.

Resetting the keyboard and adding the main chips:

1. Disconnect the power supply
2. If you have the EXIT button engaged, press it several times, then hold it down. (The EXIT button can be simulated by attaching a yellow wire to GND or the body of the keyboard)
3. While holding down the EXIT button, connect the power back to the keyboard.
4. Release the EXIT button when the keyboard turns on.
5. The LED light should turn green.
6. Attach the first chip that becomes the MASTER chip.
7. Attach a second chip, which becomes the DELETE chip.
8. Once both chips are attached, the keyboard confirms the process with two short and one long beep.

If you have the MASTER chips programmed, now just add the MASTER chip and then the other chips you want to unlock the lock. Add the chips one at a time, and once you have the desired number, press the ✳ button.

The same procedure is used for the DELETE chip, with the difference that it does not add chips, but deletes them.

Troubleshooting FAQ

I can't get the devices to pair. What can I do?
   • Make sure you are using a 2.4GHz Wi-Fi network and have a strong enough signal
   • Allow the app all permissions in the settings
   • Make sure you are using the latest version of the mobile operating system and the latest version of the app

Who all can use the equipment?
   • Facilities must always have an admin (owner)
   • Admin can share the equipment with the remaining household members and assign them rights