PRASTEL

RADIOKEYD+

RADIOKEYDS+
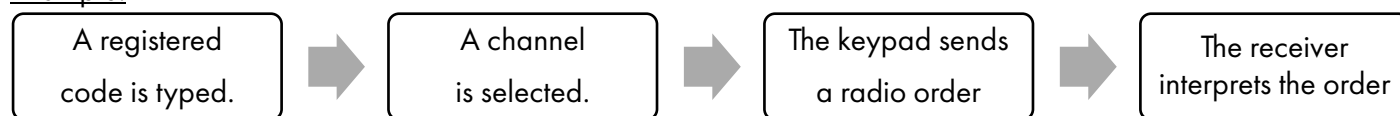
Radio keypad
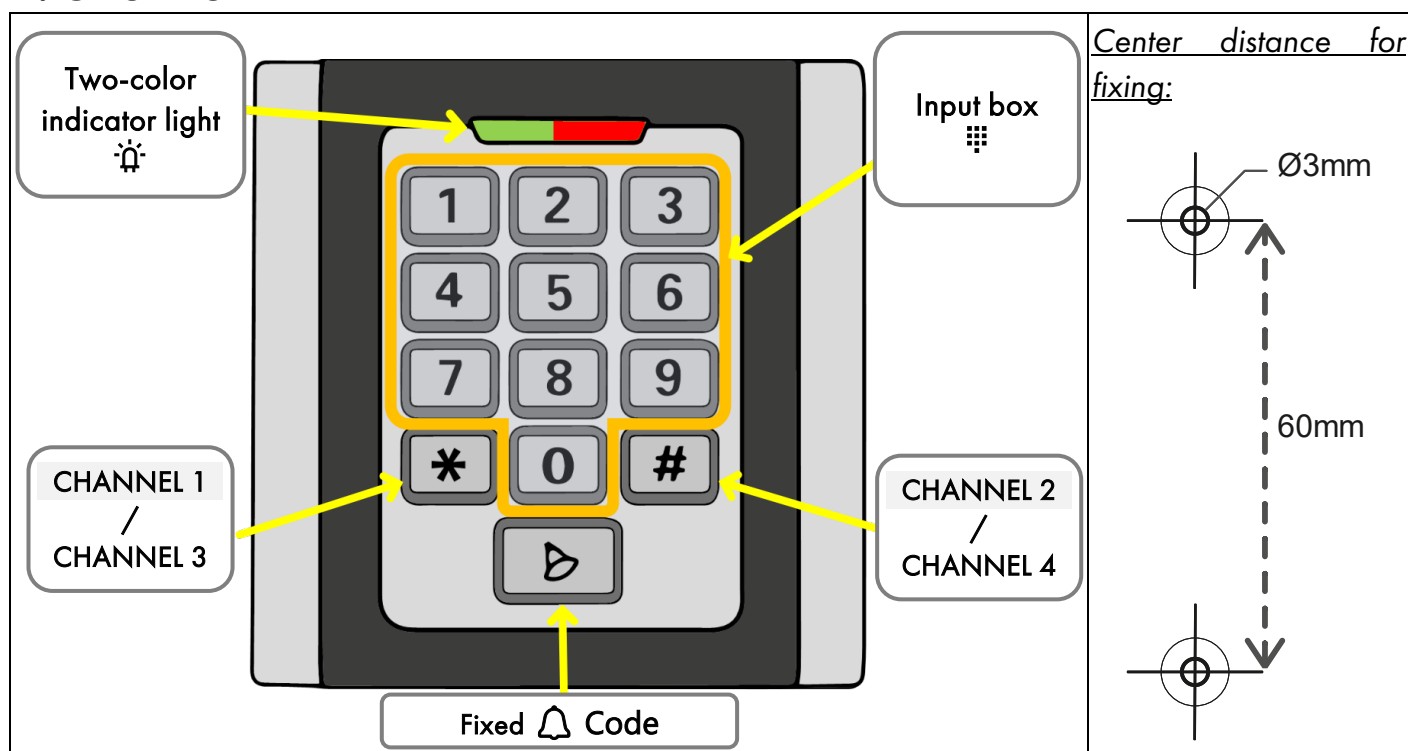## encrypted & vandal proof 🔒

CE FC

1. Presentation

The RADIOKEYD+ (433MHz) /RADIOKEYDS+ (868MHz) encrypted radio keypad enables 2-channel wireless access control for doors and gates. It can be paired with a Prastel receiver in either encrypted or unencrypted ranges. Thus, this system makes it possible to activate, via a 433MHz/868MHz radio channel, the automatic opening/closing of a gate.

Example:

A registered code is typed.	→	A channel is selected.	→	The keypad sends a radio order	→	The receiver interprets the order

2. Overview

Two-color indicator light ☼			Input box ⣿	Center distance for fixing:
CHANNEL 1 / CHANNEL 3			CHANNEL 2 / CHANNEL 4	Ø3mm 60mm
	Fixed 🔔 Code			

3. Technical data:

Battery powered:	▯ 1x CR2450 (3V) *
Power consumption:	📶 Transmit: ≤80mA, *Standby: ≤1.5µA*
Transmission frequency:	◎ **RADIOKEYD+**: 433MHz / **RADIOKEYDS+**: 868MHz
Radio Range:	((o)) Up to 110m**
Number of Channels:	⸓ 2
Number of access codes:	⚭ 100
Operating modes:	- MONOCODE - MULTICODE - CURTAIN
Storage Temperature:	🌡 -40°C to +80°C
Operating Temperature:	🌡 -10°C to +50°C
IP rating:	💧 IP65
Dimensions / Weight:	▤ 86x86x25 mm / 430g

* Battery life≈4 years.

** Under optimal conditions in encrypted operation.

4. CR2450 Battery:

To access the battery compartment, unlock the cover using a coin or token (not included):

Locked 🔒	Unlocked 🔓	🔋 3V CR2450 BATTERY:
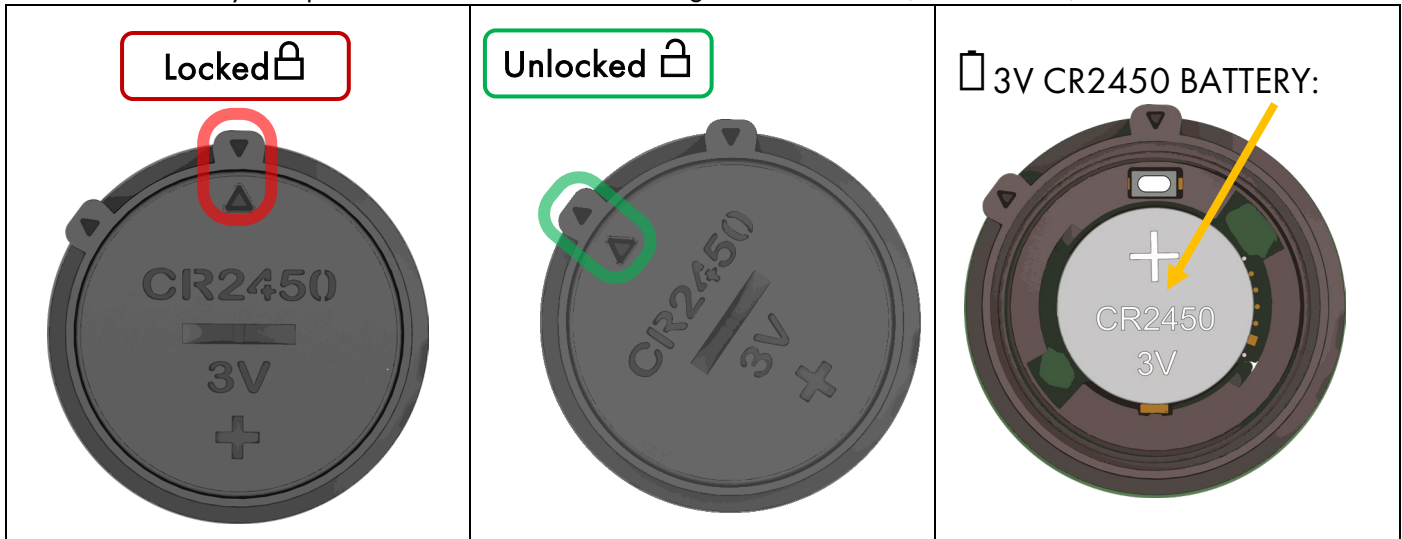
WARNING:

- – Do not reverse the polarity of the battery.
- – Respect the type and reference of the original battery.
- – Do not recharge the battery.
- – Dispose of the used battery in the containers provided for this purpose.
- – Keep new and used batteries out of the reach of children.
- – Do not swallow the battery. If swallowed or inserted into other body openings, seek immediate medical attention.

During the battery change operation, handle the battery as shown in the following figure:
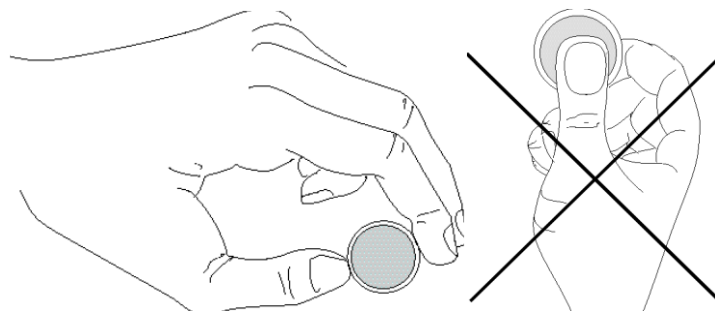
⚠️ **WARNING**

THIS PRODUCT CONTAINS A BUTTON BATTERY
If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.
Keep batteries out of reach of children.
If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

WARNING!

Keep batteries out of reach of children. Swallowing may lead to serious injury or death in as little as 2 hours due to internal burns.
If swallowed, go straight to a hospital emergency room. Dispose of used batteries immediately.

If you suspect your child has swallowed or inserted a button battery call the Poisons Information Centre immediately on 13 11 26 for fast expert opinion.

Batteries should never be put in the recycling bin or in your waste bin, check recyclingnearyou.com.au to find your nearest battery disposal location

5. OPERATING MODES

MONOCODE *(by default)*	📶 encrypted *and* unencrypted *radio transmission* (🔓+🔒)

ⓘ *This mode is suitable for RESIDENTIAL sites.*

In this mode, the access codes are stored in the memory of the keypad (maximum 100 different codes). Each access code can be made up of 2 to 6 digits. Each user can have their own access code (for *example: 1981*) which will be linked or not to a channel by the installer.

The keypad must be registered prior in the receiver's memory, the registration is done as for a transmitter according to the procedure indicated in the instructions for the receiver used.

If the access code does not have an assigned channel, by entering its personal code: *1981* then pressing the channel of his choice " ✱ " or " # ", the keypad ID will be played on the selected channel. *(Default "* ✱ *"= Channel 1 and "* # *"= Channel 2. This configuration can be modified via menu 3).*

Example of code without an assigned channel:

Enter the code		Channel selection	Keypad check	Radio transmission:	
👆 1981	+	👆 ✱	Registered code ✔	Keypad ID	On Channel 1
👆 1981	+	👆 #	Registered code ✔	Keypad ID	On Channel 2
👆 11	+	👆 #	Unknown code ✖	No transmission	

When a code is programmed with a channel assignment (*For example: 12022 with channel 1*), by entering the code: *12022* then by pressing any channel key " ✱ " or " # ", the keypad ID will be transmitted only with the channel assigned during programming.

NB: The user will not be able to change channels regardless of which channel key is pressed. Each code can have its own channel assigned, so access control can be done on several accesses.

Example code with assigned channel:

Enter the code		Channel selection	Keypad check	Radio transmission:	
👆 12022	+	👆 ✱	Registered code ✔	Keypad ID	On Channel 1
👆 12022	+	👆 #	Registered code ✔	Keypad ID	On Channel 1
👆 11	+	👆 #	Unknown code ✖	No transmission	

Scenario for a Monocode installation:

Channel 1 | Receiver | Channel 2

Access 1 | | Access 2

1) Register the keypad in the receiver memory (see *receiver manual*).
   Channel 1 on relay 1 (= access 1)
   Channel 2 on relay 2 (= access 2)

2) Registration process for access codes and eventual assigned channels on the keypad:
   a) Enter programming mode.
      👆 [✱] [✱] [Master code 🔑] [#]
   b) Add codes and eventual channels to be assigned:
      - <u>Code 1:</u> 👆 [4] [✱] 1981 [#]   (*without an assigned channel*)
      - <u>Code 2:</u> 👆 [4] [✱] 2008 [✱] 1 [#]   (*with channel 1 assigned*)
      - <u>Code 3:</u> 👆 [4] [✱] 20222 [✱] 2 [#]   (*with channel 2 assigned*)
   c) Exit programming mode.
      👆 [#]

3) Operation:

   - Code 1981: can open access 1 or access 2

👆 1981 [✱]	→	Open	Closed
Transmitting the Keypad ID on Channel 1		Access 1	Access 2

👆 1981 [#]	→	Closed	Open
Transmitting the Keypad ID on Channel 2		Access 1	Access 2
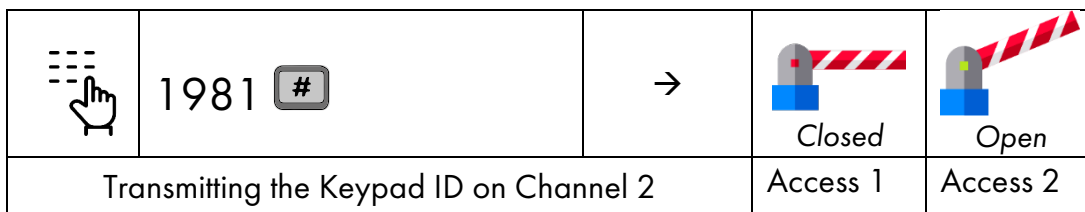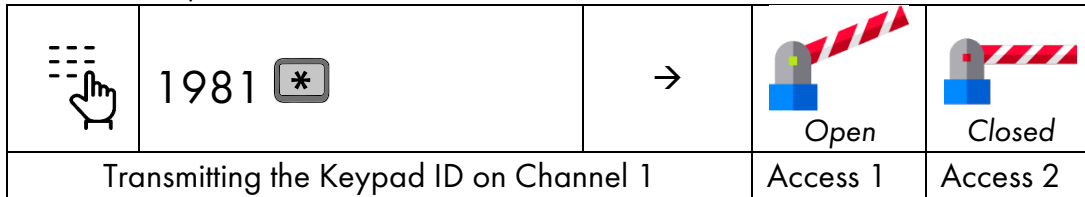
   - Code 2008: can only open access 1

👆 2008 [✱] or [#]	→	Open	Closed
Transmitting the Keypad ID on Channel 1		Access 1	Access 2

   - Code 20222: Can only open access 2

👆 20222 [✱] or [#]	→	Closed	Open
Transmitting the Keypad ID on Channel 2		Access 1	Access 2

5
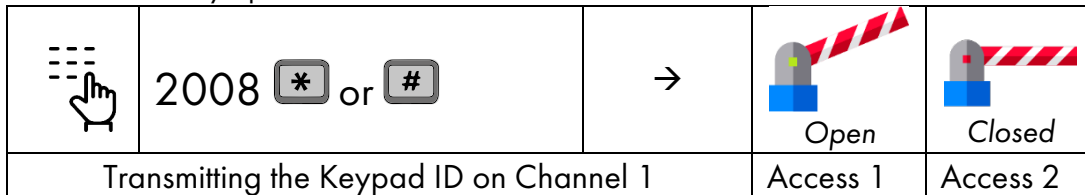
MULTICODE   📶 *Unencrypted radio transmission only.* (🔓)

ⓘ *This mode is suitable for COLLECTIVE sites with user management.*

All codes are directly registered in the receiver. Each code will be registered upstream in the receiver **and** on the defined channel. The memory capacity will depend on the capacity of the receiver. The user will be able to activate the channel of his choice. The **transmitted code is identical to the one entered** and is **sent on the selected channel**.
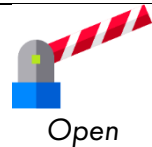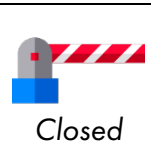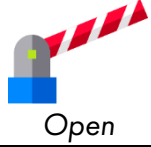
Example of code transmission:

Enter the code		Channel selection		Keypad radio transmission:		Receiver code verification
👆 12345	+	👆 ✱		12345	On Channel 1	**Registered code** ✔ = action
👆 1981	+	👆 #		1981	On Channel 2	
👆 11	+	👆 #		11	On Channel 2	**Unknown code** ✖ = nothing happens
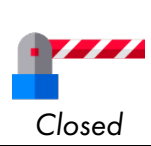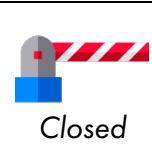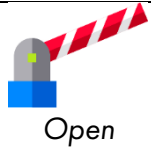
Scenario for a Multicode installation:

Channel 1 ← Receiver → Channel 2

Access 1   Access 2

1) Register access codes in the receiver's memory:
   1981 on relay 1 **and** 2 of the receiver
   120222 on Relay 2 of the receiver

2) Entering codes in nominal operation:
   - Code 1981: can open access 1 or access 2

🖐 1981 ✱	→	*Open* Access 1	*Closed* Access 2
Transmitting the code 1981 on channel 1		Access 1	Access 2

🖐 1981 #	→	*Closed* Access 1	*Open* Access 2
Transmitting the code 1981 on channel 2		Access 1	Access 2

   - Code 120222: can only open access 2

🖐 120222 ✱	→	*Closed* Access 1	*Closed* Access 2
Transmitting the code 120222 on channel 1		Access 1	Access 2

🖐 120222 #	→	*Closed* Access 1	*Open* Access 2
Transmitting the code 120222 on channel 2		Access 1	Access 2

CURTAIN	📶 encrypted *and* unencrypted *radio transmission* (🔒+🔓)

ⓘ *This mode is suitable for sectional doors and metal curtains.*

In this mode, the access codes are stored in the memory of the keypad (maximum 100 different codes). Each access code can be made up of 2 to 6 digits. Each user can have their own access code (*For example: 1981*).

The keypad must be registered beforehand in the memory of the control panels and receivers*, the registration is done as for a transmitter according to the procedure indicated in the instructions for the receiver used.

* 433MHz = TC1000-S, TC550, UNIK3I-IND, MRMINI2E+2C
   868MHz = MRMINI2S+

Operation:

Enter the code		Action Choice	Keypad check	Radio transmission:
👆 Code 1	+	👆 ✱	Registered code ✅	UP
👆 Code 2	+	👆 #	Registered code ✅	DOWN
👆 ▷			Registered code ✅	STOP

Scenario for an installation in CURTAIN mode:

Channel 1   TC1000-S   Channel 2

OPENING ←→ TC1000-S ←→ DEAD MAN CLOSURE
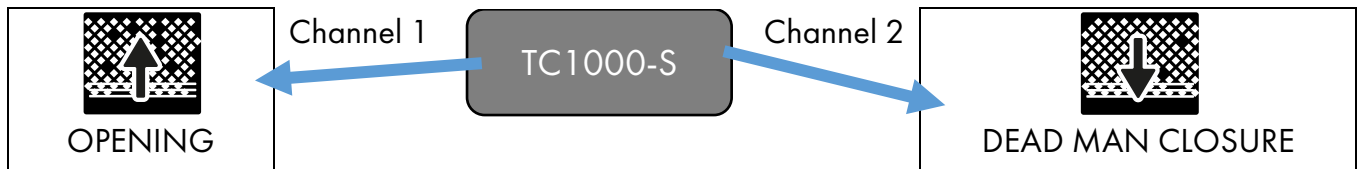
1) Full installation procedure in two parts (A and B):
   A. Programming on the keypad:
     1. Enter programming mode.
     👆 ✱ ✱ Master code 🔑 #
     2. Select CURTAIN mode:

     👆 2 ✱ 3 #
     3. Add user codes:

- Code 1: 👆 4 ✱ 1981 # (*user 1*)

- Code 2: 👆 4 ✱ 2008 # (*user 2*)

     .....
     4. Exit programming mode.
     👆 #

Please continue on the next page ➡

B. Programming on the TC1000-S control unit.

1. 👆 Press 1 time on "RADIO LEARN" push button of the TC1000-S.
   The control unit buzzer emits long beeps every second.

2. 👆 `Code 1` `*` (Learning opening)
   The control unit buzzer emits two long beeps and then confirms the procedure with two short beeps.

3. 👆 Press 1 time on "RADIO LEARN" push button of the TC1000-S.
   The control unit buzzer emits long beeps every second.

4. 👆 `Code 1` `#` (Learning closure)
   The control unit buzzer emits a long beep and then confirms the procedure with two short beeps.

5. 👆 Press 1 time on "RADIO LEARN" push button of the TC1000-S.
   The control unit buzzer emits long beeps every second.

6. 👆 `▷` (Learning STOP)
   The control unit buzzer emits a long beep and then confirms the procedure with two short beeps.

⚠ Be careful, *the order of programming is important*, it must <u>be respected.</u>

2) Operation:

Only possible after a successful installation procedure 1).

- Enter a registered user code and then press `*`

ACTION				→	STATE OF THE CURTAIN
⋮👆	1981	👇	`*`		
Input		Press			*OPENING*
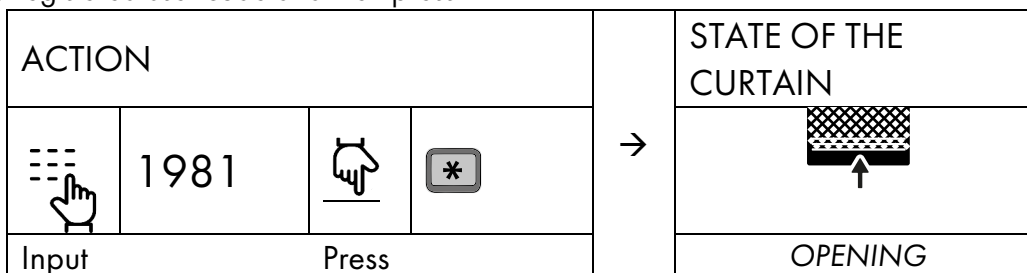
- Enter a user code and then press `#`

ACTION				→	STATE OF THE CURTAIN
⋮👆	1981	👇	`#`		
Input		Press			*CLOSING*
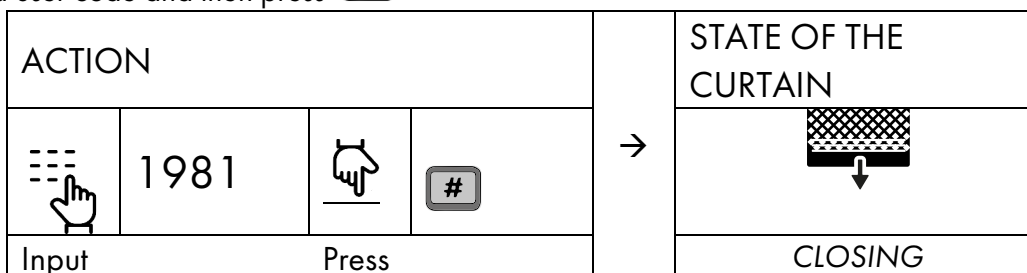
- STOP control: the button `🔔` stops the current movement of the curtain.

ACTION				→	STATE OF THE CURTAIN
👇	`▷`				
Press					*STOP*
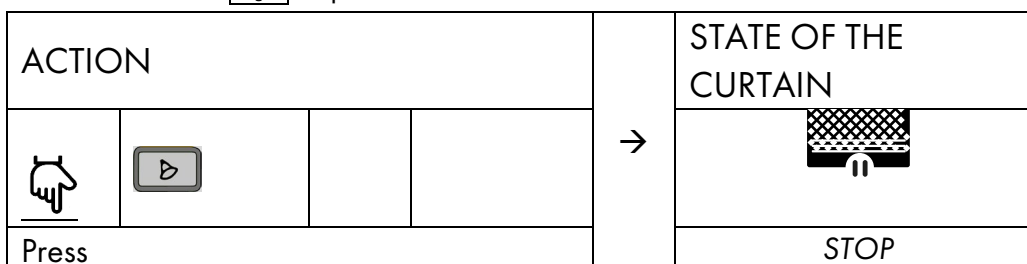
6.Keypad settings 🔧:

The keypad configuration can be set in programming mode ⚙.

ENTER PROGRAMMING MODE ⚙

Press 👆 [*] → [*] → [Master code 🔑] → [#]

(1234 default)
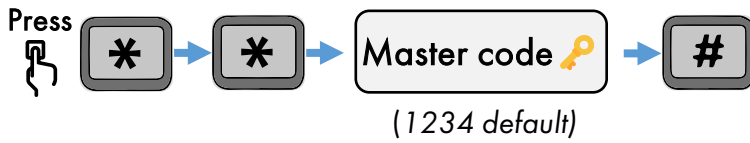
Once in programming mode ⚙, follow the procedures below to set up the keypad.
⊘ If the input is valid, the buzzer beeps once and the green indicator lights up.
⊗ If the input is incorrect, the buzzer emits 4 fast beeps quickly and the red indicator lights up.

CHANGE MASTER CODE 🔑 *(2 to 6 digits)*

Press 👆 [1] → [*] → [Old Master code] → [*] → [New Master code] → [#]

(1234 default)
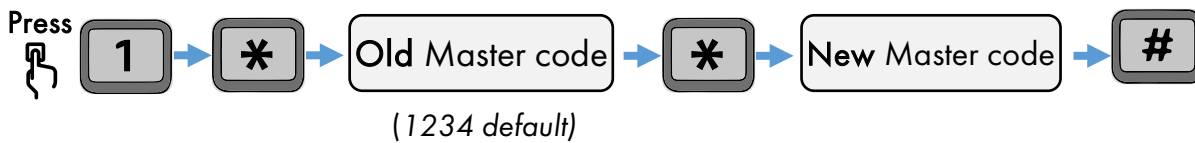
SETTING THE KEYPAD OPERATING MODE

Press 👆 [2] → [*]

[3] → [#] = CURTAIN MODE

[2] → [#] = MONOCODE MODE   *(Default)*

[1] → [#] = MULTICODE MODE

[0] → [#] = DISPLAY ACTIVE MODE*
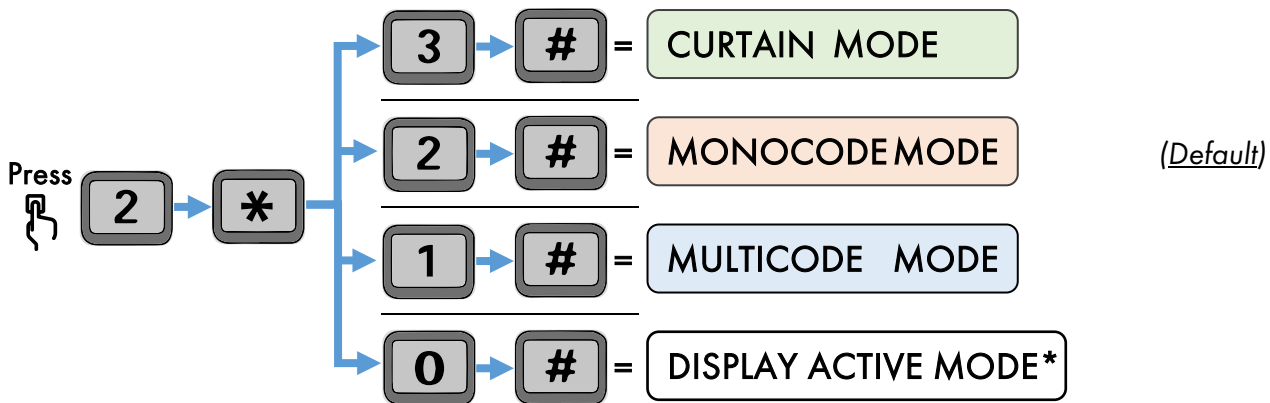
*The number of red flashes indicates the number of the configured operating mode.

SELECT ACTIVE CHANNELS

Press 👆 [3] → [*]

[1] → [#] = [*]=CHANNEL 1/ [#]=CHANNEL 2   *(Default)*

[2] → [#] = [*]=CHANNEL 3/ [#]=CHANNEL 4

[8] → [#] = DISPLAY ACTIVE CHANNELS*
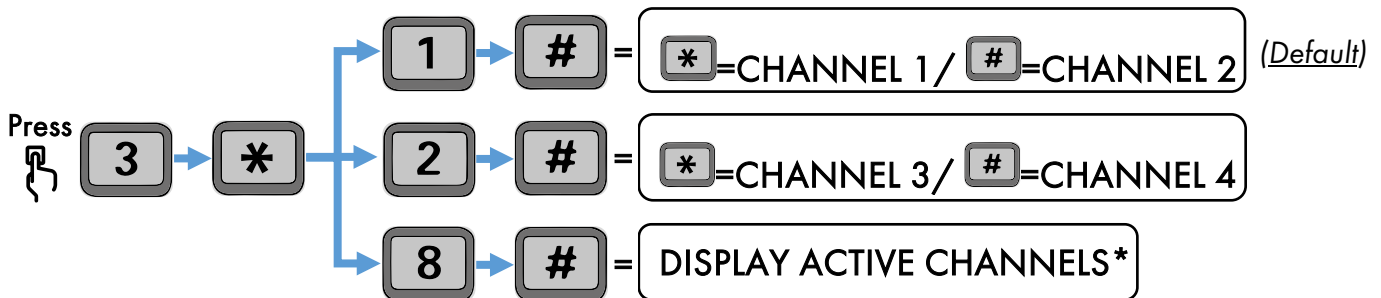
*The number of red flashes indicates the number of the configured channel mode.

ADD ACCESS CODES IN MONOCODE AND CURTAIN MODES *(2 to 6 digits)*

Press 👆 [4] → [*]

[Code to add] → [#]   *no assigned channel*

[Code to add] → [*] → [Channel to use] → [#]   *with linked channel*

9
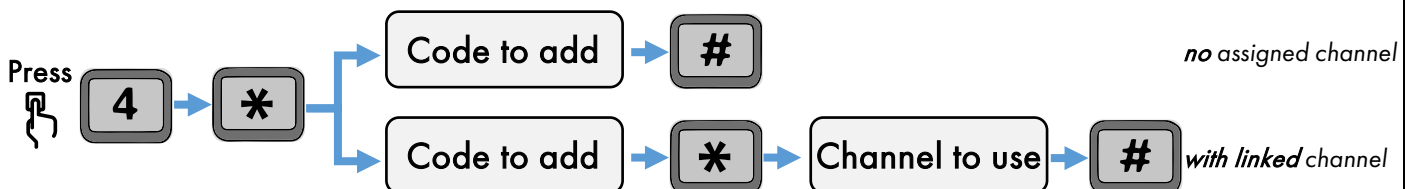
DELETE A SINGLE ACCESS CODE IN MONOCODE AND CURTAIN MODES

Press 👆 [6] → [✱] → [Code to delete] → [#] = Deleting the entered code

DELETE ALL ACCESS CODES IN MONOCODE AND CURTAIN MODES

Press 👆 [7] → [✱] → [Master code 🔑] → [#] = Deleting all saved codes

ADDING/DELETE CODE(S) IN MULTICODE MODE

In **Multicode** mode, the addition and deletion of code(s) is carried out directly on the **receiver**.

FACTORY RESET= Operating mode: MONOCODE, Buzzer and Backlight: ACTIVE, Master code: 1234 and access code memory: BLANK

Press 👆 [0] → [✱] → [Master code 🔑] → [#] = Resetting Default Settings

SETTING THE BACKLIGHT ☼/☼̸ AND BUZZER 🔊/🔇

Press 👆 [8] → [✱]

[1] → [#] = ▶ BACKLIGHT ON ☼ *(Default)*

[2] → [#] = ▶ BACKLIGHT OFF ☼̸

[8] → [#] = ▶ BUZZER ON 🔊 *(Default)*

[9] → [#] = ▶ BUZZER OFF 🔇

FIXED CODE KEY 🔔 SETTING

WARNING: The fixed code emitted by the key 🔔 is different from the keypad ID. To use it, it must **be recorded in the receiver** (*independently of the keypad*). This button may control a doorbell or *a courtesy light, for example.*

Press 👆 [9] → [✱]

[1] → [#] = ▶ 🔔 ACTIVE ON CHANNEL 1

[2] → [#] = ▶ 🔔 ACTIVE ON CHANNEL 2

[3] → [#] = ▶ 🔔 ACTIVE ON CHANNEL 3

[4] → [#] = ▶ 🔔 ACTIVE ON CHANNEL 4 *(Default)*

[0] → [#] = ▶ 🔔 INACTIVE

EXIT PROGRAMMING MODE ⚙

Press 👆 [#]   **or**   🕐   Automatic exit after 25 seconds of inactivity.

7. INDICATOR LIGHT:

KEYPAD STATUS	LED INDICATOR		BUZZER	
	● Red	● Green	🔊 ON	🔈 OFF
Valid Input ✓		ON (green)	🔊 1 BEEP	
Invalid Input ✕	ON (red)		🔊 4 FAST BEEPS	
Entering programming mode ⚙	FAST FLASHING		🔊 3 FAST BEEPS	
Active programming mode ⚙	FLASHING EVERY 1S		🔈 OFF	
Exiting programming mode ⚙	FAST FLASHING		🔊 4 FAST BEEPS	
Memory error 🔴	FLASHING		🔊 1 BEEP	

DECLARATION OF CONFORMITY	DECLARATION DE CONFORMITE
Prastel declares that the following equipment: radio keypad **RADIOKEYD+/RADIOKEYDS+** complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internetaddress:	Le soussigné, Prastel, déclare que l'équipement radioélectrique du type clavier radio **RADIOKEYD+/RADIOKEYDS+** est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:

http://www.prastel.com

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note:This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Consult the dealer or an experienced radio technician for help.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

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.
NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance.
Such modifications could void the user's authority to operate the equipment

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FC CE

8. SAFETY INSTRUCTIONS

These warnings are an integral and essential part of the product, and must be delivered to the user. Read them carefully: they provide important installation, operating, and maintenance instructions. Keep this form and give it to any persons who may use the system in the future. Incorrect installation or improper use of the product may cause serious danger.

INSTALLATION INSTRUCTIONS

Installation must be performed by a qualified professional and must observe all local, state, national and European regulations.

Before starting installation, make sure that the product is in perfect condition.

Laying, electrical connections, and adjustments must be done to "Industry Standards".

Packing materials (cardboard, plastic, polystyrene, etc.) are potentially dangerous. They must be disposed of properly and kept out of the reach of children

Do not install the product in an explosive environment or in an area disturbed by electromagnetic fields.

The presence of gas or inflammable fumes is a serious safety hazard.

Provide an overvoltage protection, mains/knife switch and/or differential on the power network that is suitable for the product and conforming to current standards.

The manufacturer declines any and all liability if any incompatible devices and/or components are installed that compromise the integrity, safety, and operation of the product.

Only original spares must be used for repair or replacement of parts.

The installer must supply all information regarding the operation, maintenance, and use of individual components and of the system as a whole

MAINTENANCE

To guarantee the efficiency of the product, it is essential that qualified professionals perform maintenance at the times and intervals required by the installer, by the manufacturer, and by current law.

All installation, maintenance, repair and cleaning operations must be documented. The user must store all such documentation and make it available to competent personnel.

WARNINGS FOR THE USER

Carefully read the enclosed instructions and documentation.

This product must be used for its intended purpose only. Any other use is improper and therefore dangerous. The information contained herein and in the enclosed documentation may be changed without notice, and are in fact provided in an approximate manner for application of the product. Prastel. declines any and all liability in this regard.

Keep this product, devices, documentation and all other items out of the reach of children.

In case of maintenance, cleaning, breakdown or malfunction of this product, turn off the unit and DO NOT try to repair it yourself. Call a qualified professional only. Disregard of this instruction may cause extremely dangerous situations.

WARRANTY LIMITS

This product has a warranty of 24 months starting on the date of selling document, and is valid for the first purchaser only.

The warranty will expire in the event of: negligence, incorrect or improper use of the product, use of accessories not conforming to the manufacturer's specifications, tampering by the customer or by third parties, natural causes (lightning, flood, fire, etc.), insurrection, acts of vandalism, changes in environmental conditions of the installation site. In addition, it does not cover parts subject to wear (batteries, etc.). If the product has to be returned to PRASTEL for repair, it must be sent postage paid. Prastel will return the repaired product to the sender COD. Under any other circumstances, the product will be refused upon receipt or held at the time of shipment. Purchase of this product implies full acceptance of all of the terms of this warranty. In the event of dispute, the competent forum will be that of Marseille, France.

PRASTEL

Prastel France
ZI Athélia II 225, Impasse du Serpolet
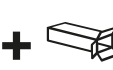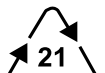*13704 LA CIOTAT CEDEX - France*
www.prastel.com

Séparez les éléments avant de trier