

SH602AX

SJ608AX
SJ604AX

SH602AX: 2 function remote keyfob with information feedback
 SJ604AX: bi-protocol 4 function remote keyfob with information feedback
 SJ608AX: 8 function 4 key remote keyfob with information feedback



GM Techtronics

DAITEM

INSTALLATION MANUAL

Contents

1. Introduction.....	1	6. Locking the remote control keyfob via a code....	6
2. Preparation.....	2	6.1 Procedure for locking or unlocking the keyfob ..	6
3. Recognition programming with a TwinBand [®] alarm control panel.....	3	6.2 Personalising the locking code.....	6
4. Parameter-setting (TwinBand [®] radio).....	3	7. Three-colour LED operation.....	6
4.1 Setting a command number.....	3	7.1 Information feedback.....	6
4.2 Setting a key to Arm or Disarm groups 1 to 8 ...	4	7.2 Confirmation of receipt.....	7
5. Radio link between the remote control keyfob and an Optwin [®] wireless product.....	5	7.3 Protected or locked keys.....	7
5.1 Creating and deleting the radio link between the remote control keyfob and an Optwin [®] wireless product.....	5	7.4 Remote control battery fault.....	7
5.2 Deleting the radio links of a key on the remote control keyfob.....	5	8. Maintenance.....	7
		8.1 Changing the battery.....	7
		8.2 Returning to the factory configuration.....	8
		9. Technical data.....	8

Recommendations

The user must not attempt to access the device's internal parts, except areas described in this manual. If the user does access these parts, the product guarantee will be considered null and void and DAITEM shall not be held responsible for any problems. Touching the device's internal parts and/or electronic components can damage the product. Furthermore, the device is designed in such a way that these parts and components do not need to be accessed for operation or maintenance purposes.

1. Introduction

IMPORTANT




- Some functions are only available with control panel versions 2.0.0 or later (enter in the control panel keypad to check the version).
- Operational differences in relation to former ranges are described in the compatibility booklet available in the Daitem Installers section at www.daitem.co.uk.

The remote control devices SJ604AX and SJ608AX combine two radio protocols (TwinBand[®] and Optwin[®]) allowing them to control several product ranges.

The remote control device SH602AX operates only on the TwinBand[®] radio protocol, it does not operate on the Optwin[®] radio protocol.

- The keyfob can be used to control:
 - the intrusion protection function of the alarm system hence ensuring the protection of individuals (TwinBand[®] radio),
 - latch/gate access points using the wireless doorphone system (Optwin[®]), except for the SH602AX,
 - comfort applications with external receivers or the remote-controlled socket (TwinBand[®] and Optwin[®].)
 The keys can be personalised to adapt the commands to the user's habits.
- Factory configuration of remote control keyfobs
 - The SJ608AX keyfob has a cursor (top and bottom position) so that commands on each key can be doubled hence providing up to 8 functions.
 - The commands allocated to keys are identical whatever the position of the cursor (top or bottom).

The keys are configured to issue the following commands:

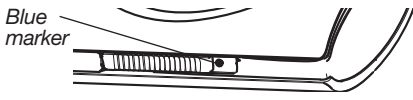
Keyfob reference	Factory configuration of keys			
	ON	OFF	P1	P2
SH602AX 	Arm	Disarm		
SJ604AX 	Arm	Disarm	Partially arm 1	Alert
SJ608AX	Arm	Disarm	Partially arm 1	Alert
Cursor in bottom position <i>Blue marker</i> 				

IMPORTANT: when the cursor is in the middle position, the keys are in protected mode and cannot issue radio commands.

• Specific feature of the SJ608AX keyfob

When a command n° has been configured (TwinBand®) and a radio link created (Optwin®) for one of the keys, then the cursor is in the bottom position while the other keys are automatically configured to be disabled (command n° 44 for TwinBand® radio).

Example: the cursor is in the bottom position and the P1 key parameter is set for the “Silent alarm” command. The other three keys are disabled.

SJ608AX keyfob	Factory configuration of keys			
	ON	OFF	P1	P2
Cursor in bottom position <i>Blue marker</i> 	Key disabled	Key disabled	Silent alarm	Key disabled

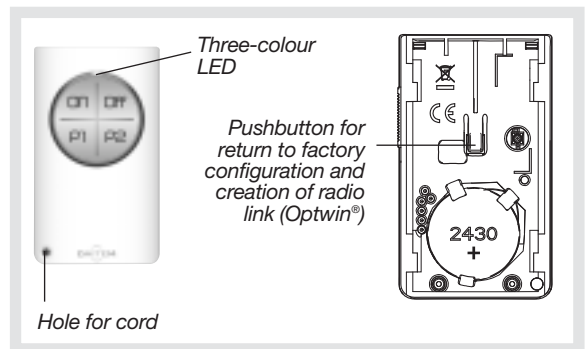
• The keyfob has a three-colour LED on its front face indicating:

- radio transmission when a key is pressed,
- information feedback from the system being controlled or, failing this, confirmation of receipt,
- the battery status.

This three-colour LED can also be used for different parameter settings.

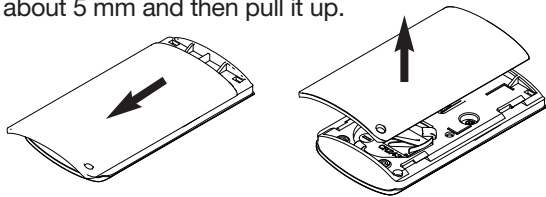
• The keyfob has a pushbutton for:

- returning to the keyfob’s factory configuration,
- creating or deleting a radio link between each key and Optwin® wireless devices (external receiver and doorphone).

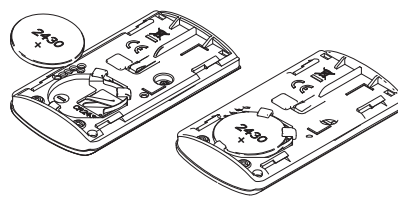


2. Preparation

1. To connect the battery, slide the rear base down by about 5 mm and then pull it up.

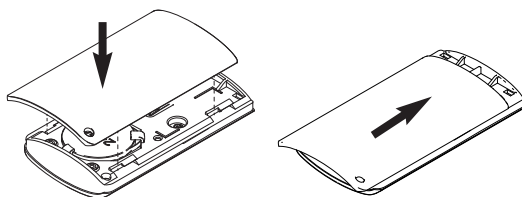


2. Position the battery (supplied).

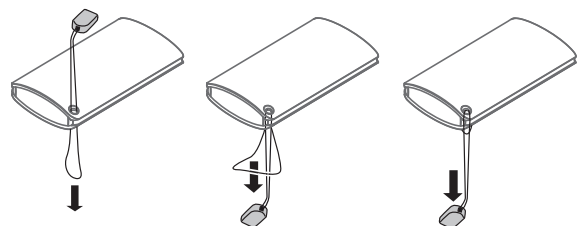


IMPORTANT: make sure you position the battery the right way round with the “+” facing up.

3. Put the rear base back by sliding it upwards until it locks into position.



4. Insert the cord.



5. Guarantee sticker

Remove the pre-cut part of the sticker and stick it on to the guarantee certificate inside the user manual supplied with the control panel. If you are adding to an existing system, use the guarantee certificate supplied with this product.



3. Recognition programming with a TwinBand® alarm control panel

This step enables radio recognition between devices:

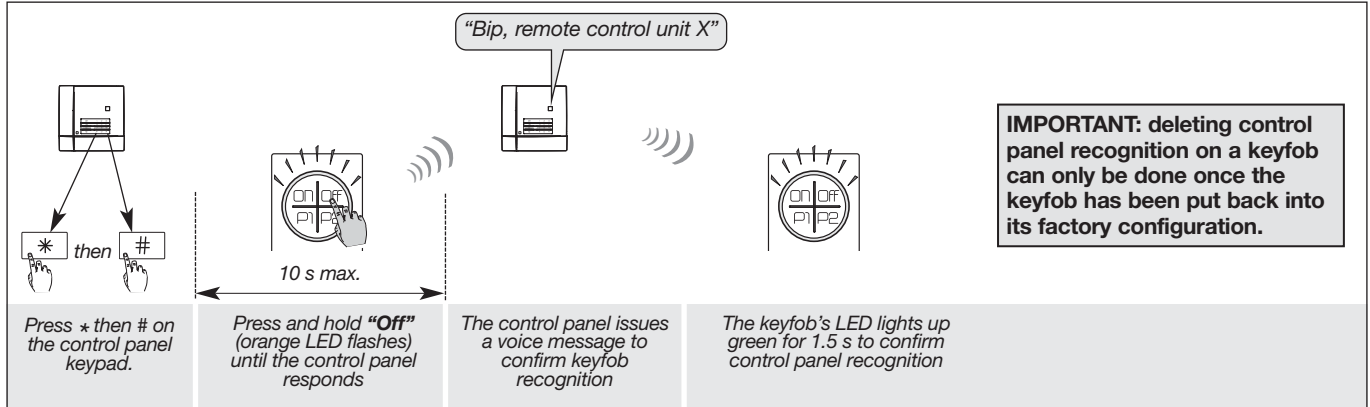
- the keyfob is recognised by the control panel,
- the control panel is recognised by the keyfob (for managing control panel information feedback on the keyfob).

To perform recognition programming, place the cursor in the top position for keyfob SJ608AX.

The control panel must be in installation mode. If it is not, enter:

2 # # then # 3 # #
master code (factory: 0000) installer code (factory: 1111)

Perform the following recognition programming sequence:



IMPORTANT: the keyfob can recognise two different alarm control panels and manage information feedback from both.

4. Parameter-setting (TwinBand® radio)

The keyfob's parameters can be set in order to personalise commands in relation to the user's needs.

4.1 Setting a command number

1. Choose the keyfob key to be personalised (ON, OFF, P1 or P2)
2. Choose a command n° (2 or 3 digits) from the table below depending on the command to be set.
3. Choose a top or bottom cursor position (only for SJ608AX).

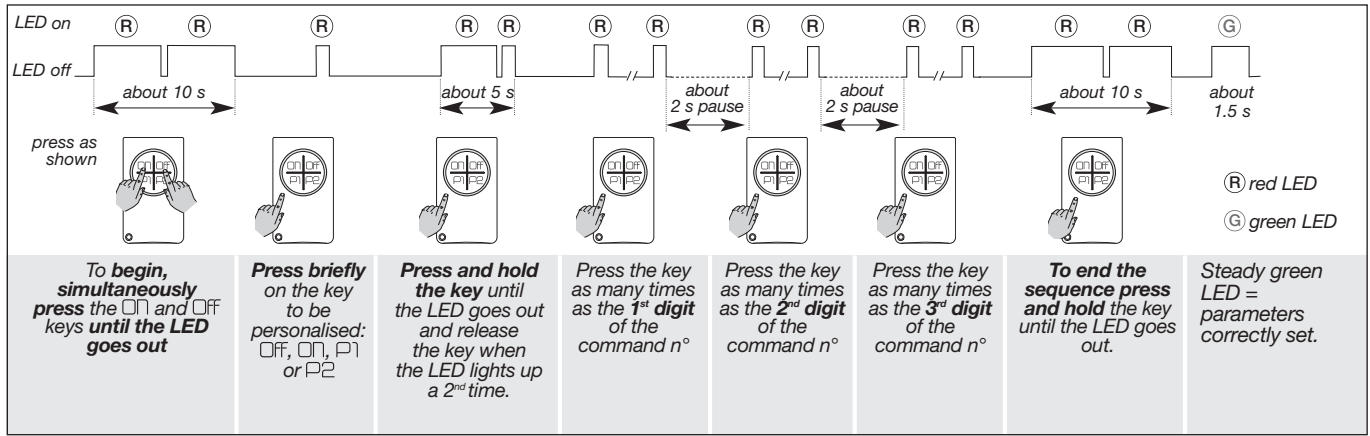
Command description	Command n°	Command description	Command n°	Command description	Command n°
OFF (coded access compulsory)	21	Light ON	54	Armed relay 3	84
Panic Alarm	22	Light toggle switch	56	Toggle switch relay 3	86
Armed	23	Light timer	58	Timer relay 3	88
Silent alarm	24	Pulse relay 1	60	Pulse relay 4	90
Armed, Partial 1	25	OFF relay 1	62	OFF relay 4	92
Armed, Partial 2	27	Armed relay 1	64	Armed relay 4	94
Fire alarm	32	Toggle switch relay 1	66	Toggle switch relay 4	96
Armed, Presence mode (stay)	33	Timer relay 1	68	Timer relay 4	98
Silent command	36	Pulse relay 2	70	Off relay control panel 1	112
Stop indications*	37	OFF relay 2	72	On relay control panel 1	114
Door Bell Chime	38	Armed relay 2	74	Off relay control panel 2	122
Audible signal Chime	42	Toggle switch relay 2	76	On relay control panel 2	124
No command	44	Timer relay 2	78	System status	129
Pulse light	50	Pulse relay 3	80		
Light OFF	52	OFF relay 3	82		

* Used to stop indications concerning a technical alarm, an alert or a tamper alarm without changing the system status.
 Important: telephone transmissions are not interrupted.

IMPORTANT

- To use the "Alert" or "Silent alarm" command, press and hold the key for 2 seconds in order to validate radio transmission.
- A key cannot be set with a TwinBand® command n° if an Optwin® radio link has already been allocated (unless the Optwin® radio link is deleted).

4. Set the parameters according to the sequence below.

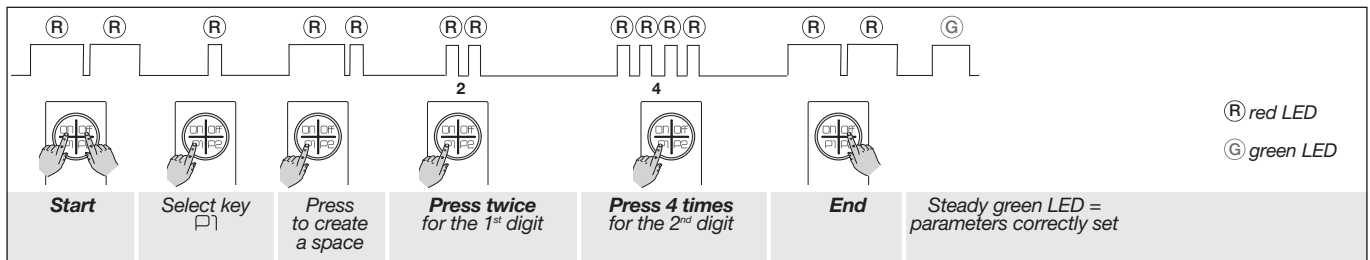


IMPORTANT

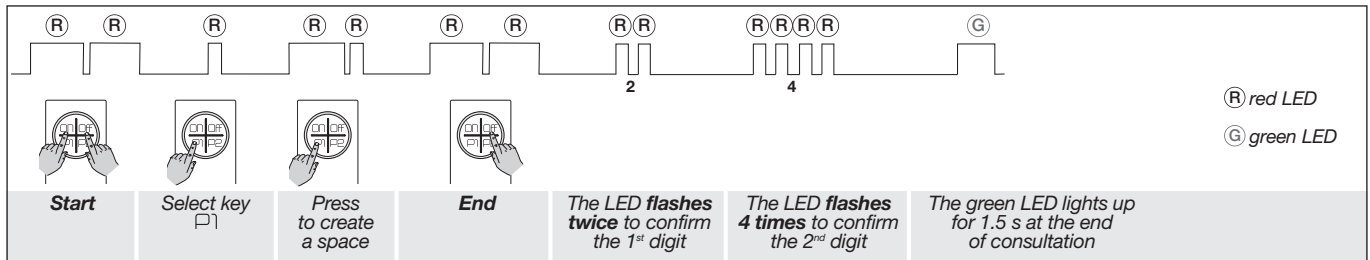
- Each command n° digit corresponds to the number of times the keyfob is pressed (digit “0” = key pressed 10 times in a row)
- If the red LED flashes three times in a row during or at the end of parameter-setting, you have made a programming error. When this happens, go through the sequence again from the beginning.

Example of parameter-setting

Personalise key P1 to trigger a “Silent alarm”. The command n° is 24.



Verification of parameter setting of the preceding example



4.2 Setting a key to Arm or Disarm groups 1 to 8

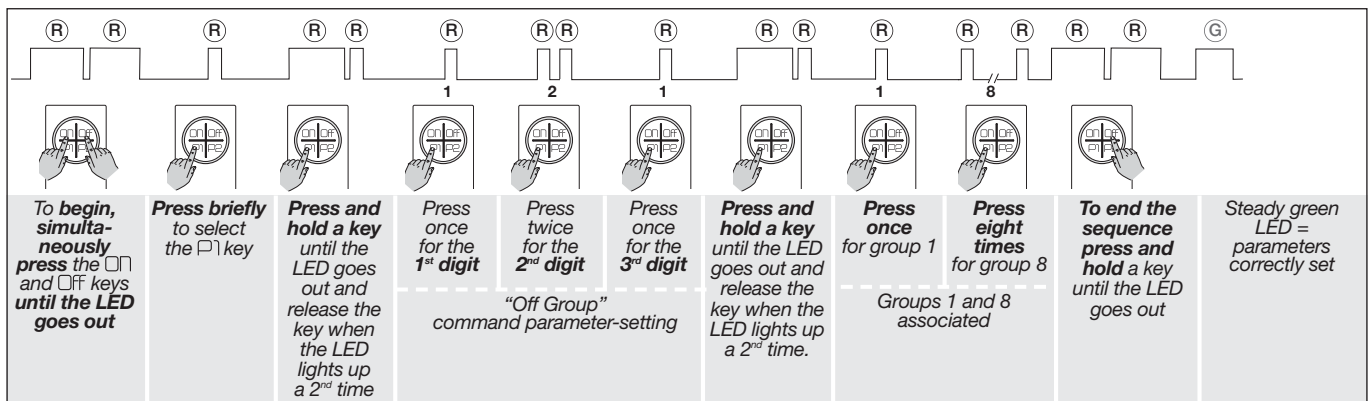
The arming or disarming of a group from among the 8 alarm groups available (depending on the type of control panel) can be programmed by first configuring:

- the Disarm group function (command 121) and associating this with the group(s) to be disarmed,
- the Arm group function (command 123) and associating this with the group(s) to be disarmed.

IMPORTANT: a key cannot be set with a TwinBand® command n° if an Optwin® radio link has already been allocated (unless the Optwin® radio link is deleted).

Example of parameter-setting

Personalising the P1 key to trigger the “Off group” function (command 121) associated with groups 1 and 8.



5. Radio link between the remote control keyfob and an Optwin® wireless product

This step only concerns the remote control devices SJ604AX and SJ608AX.

IMPORTANT: An Optwin® radio link can be created for a key programmed for a TwinBand® command n°. If the radio link is deleted the key returns to its initial command n° setting.

5.1 Creating and deleting the radio link between the remote control keyfob and an Optwin® wireless product

This step is for creating (or deleting) a radio link between a keyfob and:

- an external receiver,
- a doorphone controller.

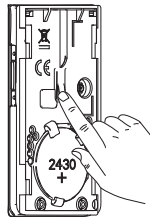
The keyfob can be programmed to recognise up to 16 products with 16 radio links per key.

A function-allocated radio link can be created or deleted following the same procedure, as described below:

Keyfob

1. Switch to radio link creation mode.

Remove keyfob battery compartment cover to access Radio link button. Press briefly on the radio link creation PB: red LED when the key is pressed switching to orange when it is released to indicate the change to radio link creation mode for a maximum duration of 5 min.



N.B. press briefly on the link creation PB a second time to exit this mode without waiting until the end of the 5 minute period.

4. Select the key to be associated (or deleted) and validate the procedure

IMPORTANT: choose the top or bottom cursor position for the SJ608AX.

Press briefly on the chosen key. The LED lights up green for 1.5 s.



External receiver and doorphone controller

2. Switch to radio link creation or deletion mode.

Refer to the installation manual of each product.

3. Select the function.

Refer to the installation manual of each product.

IMPORTANT: if an error is made, the LED flashes red 3 times. Go through the radio link creation (or deletion) procedure again.

5.2 Deleting the radio links of a keyfob key

Example: the P2 key on the keyfob controls two separate lights via 2 external receivers.

Follow the procedure below to delete the 2 radio links with these 2 receivers.

Procedure:

1. press briefly on the radio link creation pushbutton on the keyfob,
2. press and hold the keyfob P2 key for longer than 10 seconds.

The keyfob LED lights up green for 1.5 s to indicate that all of the selected key's radio links have been deleted.

6. Locking the remote control keyfob via a code

This step only concerns the remote control devices SJ604AX and SJ608AX.

Locking the keyfob via a code prevents it from being used. The “code” corresponds to the keyfob being pressed 4 times (any key or keys).

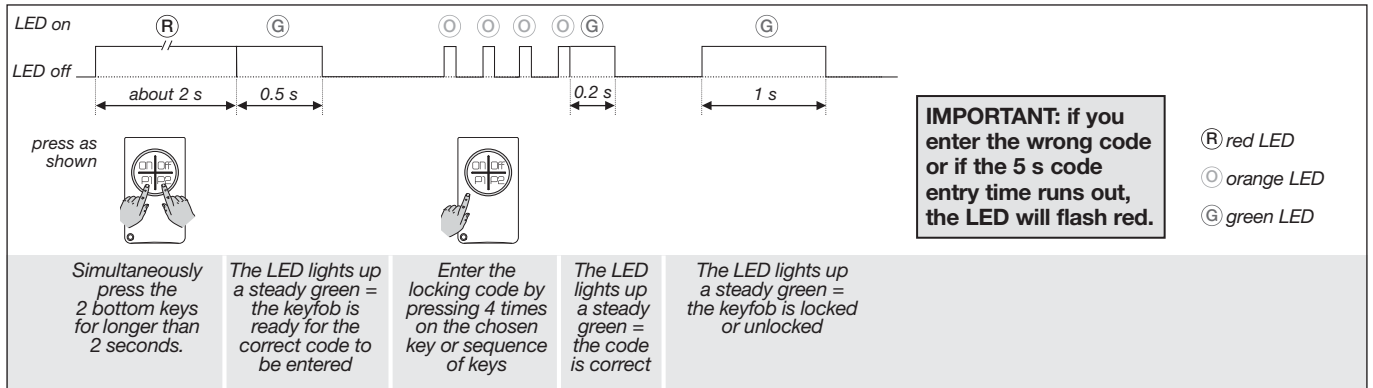
When the keyfob is locked, a key can be pressed without any commands being transmitted by radio.

The keyfob can only be unlocked using the code or by putting it back into its factory configuration.

The factory configuration of the locking code involves pressing ON then OFF then P1 and then P2.

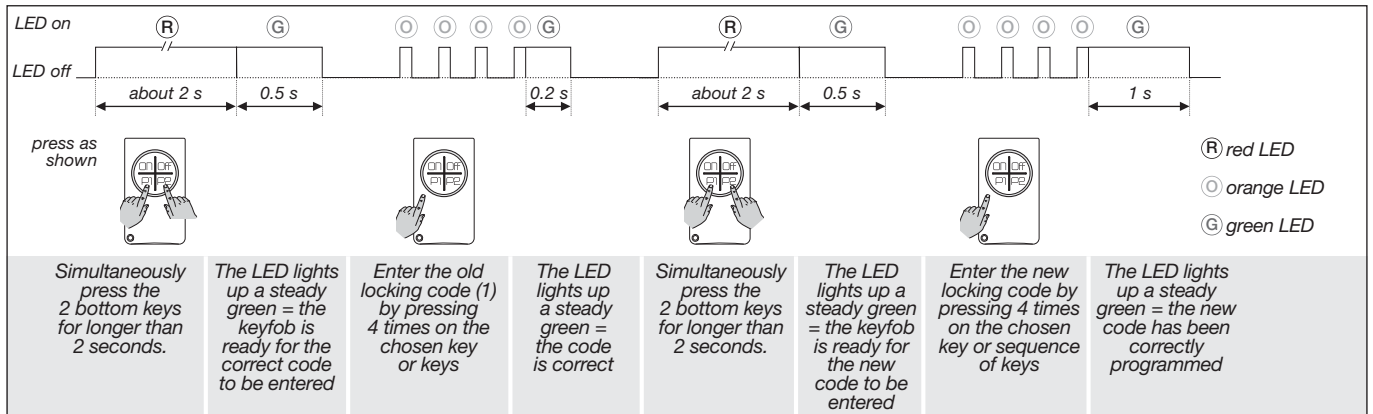
6.1 Procedure for locking or unlocking the keyfob

The procedure is identical in both cases.



6.2 Personalising the locking code

The keyfob must not be locked.



(1) Or the factory locking code for a first code change.

IMPORTANT: if you enter the wrong code or if the 5 s code entry time runs out, the LED will flash red.

7. Three-colour LED operation

The viewing of events depends on the devices to be controlled as well as on the type of radio used. Events can only be viewed on the remote control unit having issued the order and concern the last key pressed (i.e. the last command issued).

IMPORTANT: the LED does not light up when the key has not been allocated with an Optwin® radio link or if it has been programmed as a “disabled key” (command n° 44) for TwinBand® radio.

7.1 Information feedback

Information feedback is displayed when the receiver product acknowledges a command and indicates its status. This display concerns:

- the TwinBand® radio alarm control panel when its system status is modified or queried,
- Optwin® wireless products (external receiver or doorphone controller) when these are able to send information about their status (e.g.: product fitted with a position contact or allocated with a bistable type command like a toggle switch function).

LED indication table

Command sent to:	LED colour and status		Meaning
Alarm control panel	flashes ORANGE while the key is pressed then...	lights up steady GREEN for 1.5 s	• Total/Partial or group DISARMING <i>or</i> • Silent alarm
		flashes GREEN 3 times	Total/partial or group DISARMING (with memory of alarm)
		lights up steady RED for 1.5 s (1)	Total/partial or group ARMING
		flashes RED 3 times	ARMING blocked (2)
<ul style="list-style-type: none"> • An Optwin® external receiver • A doorphone controller 	flashes ORANGE once then...	lights up steady GREEN for 1.5 s	• position contact OPEN <i>or</i> • relay ENABLED (e.g.: toggle switch function)
		lights up steady RED for 1.5 s	• position contact CLOSED <i>or</i> • relay DISABLED (e.g. toggle switch function)

(1) This is the indication used when the control panel receives an ARM order even if there is a fault or a door or window open.

(2) ARMING blocked means that the intrusion system has been unable to arm owing to a system fault.

The user must check the control panel for more information.

7.2 Confirmation of receipt

This display only concerns commands with an Optwin® wireless product.

Confirmation of receipt is displayed when the product acknowledges the command without indicating its status.

It indicates to the user that the radio message has been received and taken into account (examples: pulse function without position contact or timer function).

LED indication table

Command sent to:	LED colour and status		Meaning
<ul style="list-style-type: none"> • An Optwin® external receiver • A doorphone controller 	flashes ORANGE once then...	lights up steady GREEN for 0.5 s	Radio-transmitted command received correctly (e.g. pulse function without status indication)

7.3 Protected or locked keys

When the keyfob has been locked using a code or is in protected mode (SJ608AX with cursor in middle position) the LED quickly flashes red to indicate locking/protection when a key is pressed (the LED stops flashing when the key is released or after the key has been pressed for longer than 2 s).

7.4 Keyfob battery fault

This fault is indicated by the LED flashing red four times at the start of a sequence when a key is pressed and for however long the key is pressed.

The battery must be changed within 4 weeks.

The control panel responds to remote control battery faults: Following a system command (for example, ON or OFF), the control panel issues the voice message "Beep, fault, voltage, remote control unit X".

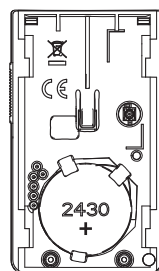
8. Maintenance

8.1 Changing the battery

To replace a low battery, see chapter "2. Preparation".

IMPORTANT

- When a keyfob is powered (battery changed) in locked mode it remains in locked mode.
- The parameters set do not change when the keyfob battery is changed.
- After the battery change, the low battery fault announcement by the Control panel will be removed following a second press of a remote control button (for example press OFF twice).



IMPORTANT: make sure you insert the battery the right way round with the "+" facing up.

Dispose of waste batteries in the appropriate recycling containers.

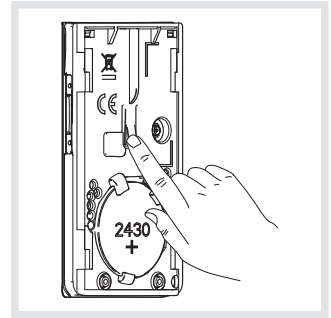


8.2 Returning to the factory configuration

Procedure:

1. Briefly press the pushbutton and then press and hold it down for longer than 10 s.
2. The LED lights up green for 1.5 s to indicate that the operation has been performed correctly.

N.B: if, during this procedure, the LED remains lit a steady orange, briefly press the pushbutton again to switch the LED off and perform steps 1 and 2 again.



9. Technical data

Characteristics	Keyfobs
2 personalised keys	SH602AX: 2 functions
4 personalised keys	SJ604AX: 4 functions
4 personalised keys and a cursor	SJ608AX: 8 functions
Use	mobile (keyfob delivered with a cord)
Power supply	1 CR2430 type 3 V lithium manganese battery low voltage threshold 2.15 V - type C
Battery life	5 years with 16 radio commands: <ul style="list-style-type: none"> • 8 TwinBand® radio commands a day • 8 Optwin® radio commands a day
Two-way radio link	<ul style="list-style-type: none"> • TwinBand® 400/800 MHz (SH602AX, SJ604AX, SJ608AX) • Optwin® 868/870 MHz (SJ604AX, SJ608AX)
Operating temperature	- 10 ° C to + 50°C
Degrees of mechanical protection	IP 30
L x w x H	70 x 40 x 14 mm
Weight	27 g

Products code	SH602AX	SJ604AX	SJ608AX
EN 300 220-2 V2.3.1	X	X	X
EN 50130-4 (95) + A1 (98) + A2 (2002)	X	X	X
EN 55022 & 55024 (2002)	X	X	X
EN 60950 (2006)	X	X	X
EN 301 489-1 V1.8.1	X	X	X

These products can be used in all EU, EEA Countries and Switzerland.

Crolles, 02.01.2013

Signature:
Patrick Bernard
Research & Development Manager

Non-binding document, subject to modification without notice.