This manua	al describes how to use the following products:
SC900AX	Lithium/lithium 1-button 1-home doorphone kit
SC901AX	Mains/mains code-operated 1-home doorphone kit
SC902AX	Mains/lithium 1-button 1-home doorphone kit
SC906AX	Battery/mains 1-button 1-home doorphone kit
SC100AX	Interior handset unit + base + EU power pack
SC101AX	Interior handset unit + battery-charging base
SC200AX	Mains-powered controller
	Lithium battery-operated controller
SC206AX	Dry battery controller
MHF01X	Translucent 2-home outdoor caller unit
MHF02X	Translucent code-operated 2-home outdoor caller unit
MHF03X	Opaque 1-home outdoor caller unit
MHF04X	Opaque 2-home outdoor caller unit
MHF05X	Opaque code-operated 1-home outdoor caller unit
MHF06X	Opaque code-operated 2-home outdoor caller unit

Foreword

The doorphone system can be used to welcome and filter visitors, listen in to background sounds at each access point and communicate with another handset.

It can also be used to remotely control:

- one or several electrical latches,
- one or several automatic gate control systems,
- one or several automatic garage door control systems,
- one or several lights.

It also allows users to check the status of access points or lights using the screen on the handset at any time.

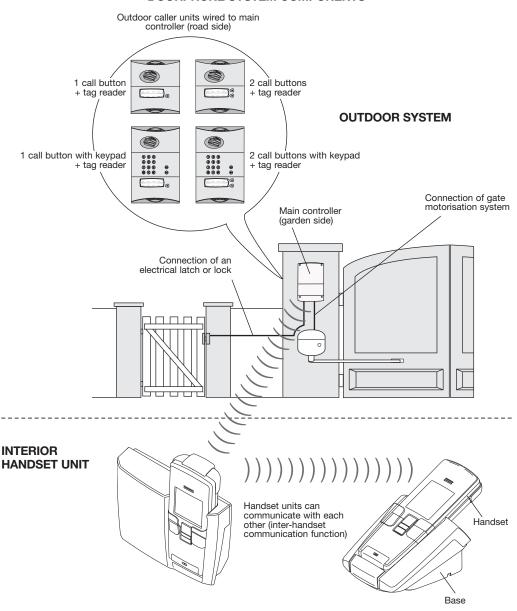
Several additional interior handset units can be added to the doorphone system (maximum of 4 per call button).

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1. Introduction

DOORPHONE SYSTEM COMPONENTS



Each kit comprises the following (minimum):

- An outdoor caller unit installed on the road side, for visitors.
- A controller installed on the same pillar but on the garden side. This controller provides:
 - the radio link with the interior handset unit,
 - the power supply to the outdoor caller unit and controller,
 - the connections to the electrical lock or latch and gate motorisation system.

These products are connected via a cable that either goes through or around the pillar.

- An interior handset unit (base and handset) for receiving calls and remotely controlling:
 - the electrical locks or latches,
 - the gate motorisation system.
 - the automatic garage door control system (1),
 - lighting (1),
 - communication with another handset (2),
 - doorphone programming.

Using the outdoor caller unit, access is controlled using:

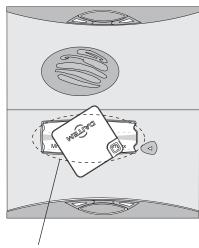
- an access code.
- a tag reader.

Identifying each user with a tag

The outdoor caller units have a front panel with a tag reading zone allowing each user to control access quickly once the tag has been identified.

Holding the tag **up to the name** label dispenses the user from entering the access code.

The outdoor caller unit with keypad can manage up to 16 different tags. Each tag must be registered on the caller unit.



The tag is detected in this zone

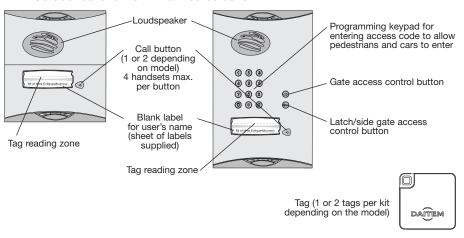
¹⁾ Via output receiver.

²⁾ Requires a minimum of 2 handsets.

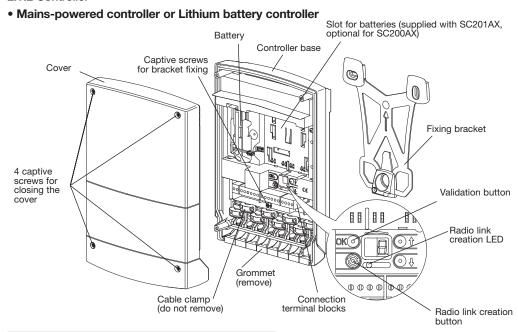
2. Description

2.1 Outdoor system

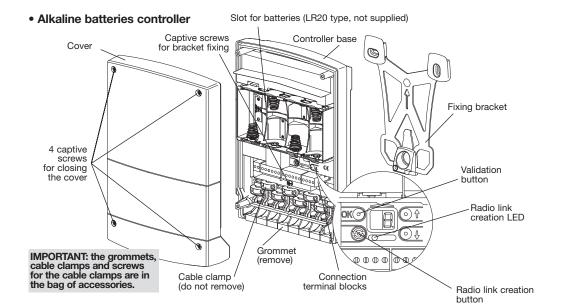
2.1.1 Outdoor caller units with armoured cover



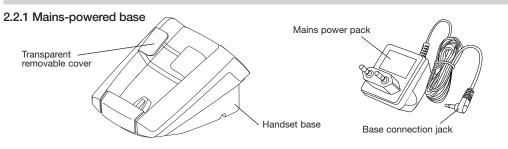
2.1.2 Controller

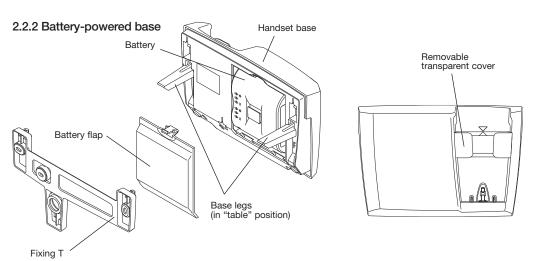


IMPORTANT: the grommets, cable clamps and screws for the cable clamps are in the bag of accessories.

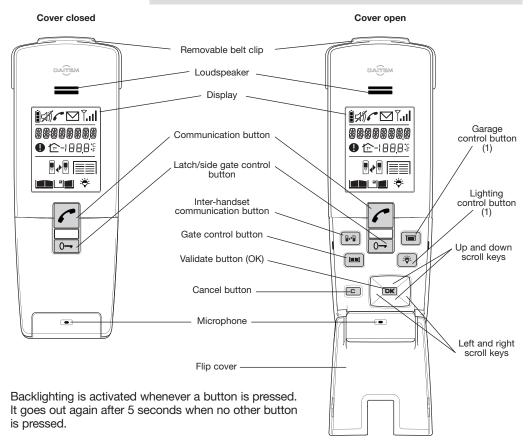


2.2 Interior handset unit

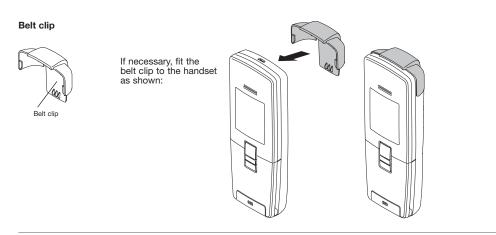




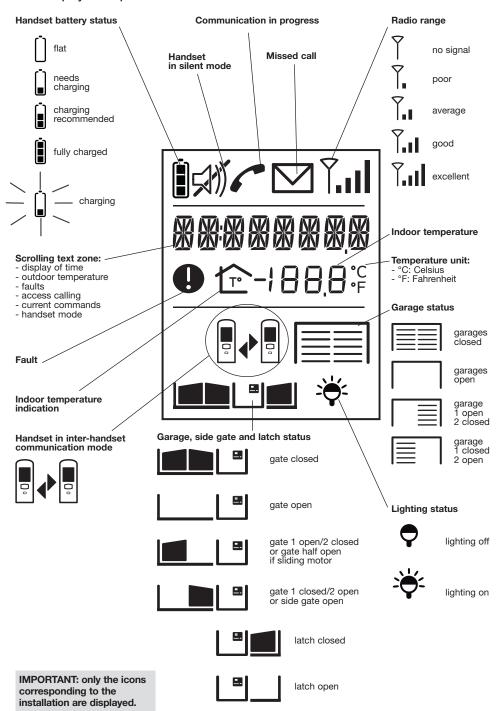
IMPORTANT: when installing the system, the handset(s) must be charged on their base before they can be used.



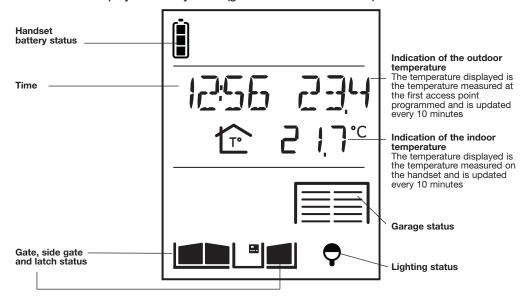
(1) These functions require a relay output receiver to be installed.



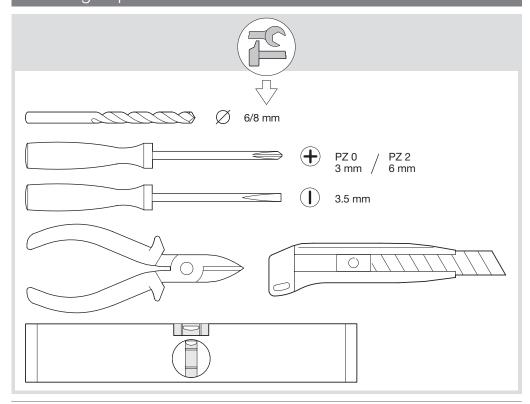
2.2.4 Display description



2.2.5 Handset display in standby mode (general information screen)



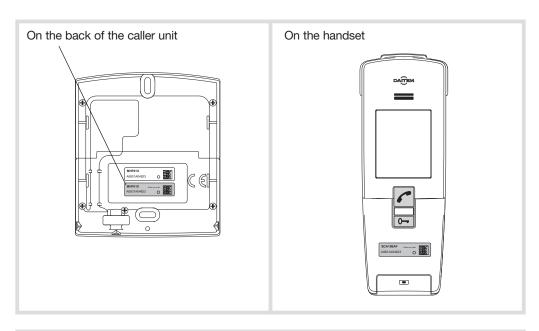
3. Tooling required

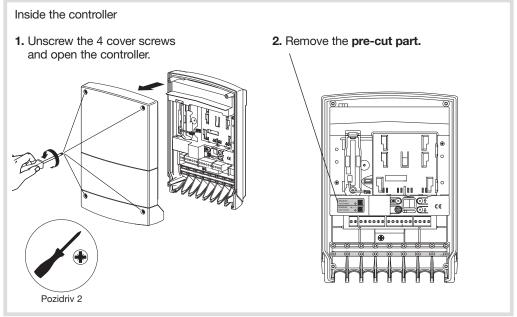


4. Preparation

4.1 Guarantee stickers

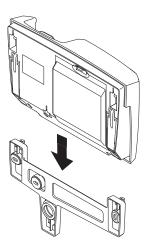
Remove the pre-cut parts of the stickers and stick these to the extension request supplied.





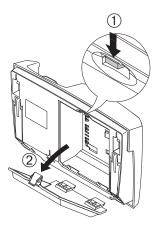
Inside the battery-operated base

 Remove the fixing T and put it to one side for possible wall mounting in the future (see Installing the doorphone system/Wall mounting).



3. Remove the pre-cut part.

2. Open the battery flap.





GUARANTEE

The conditions according to which the guarantee and after sales service apply are described in the general price list and can be sent on request.

Some after sales service products and accessories, such as:

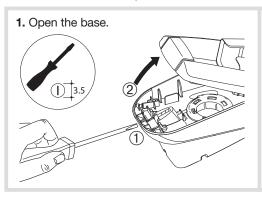
- MHU01X power pack
- SC501AX interior handset unit base
- SC501AX belt clip
- SC801AX handset flip cover

(non-exhaustive list for indication purposes only) have a 2-year manufacturer guarantee, which cannot be extended.

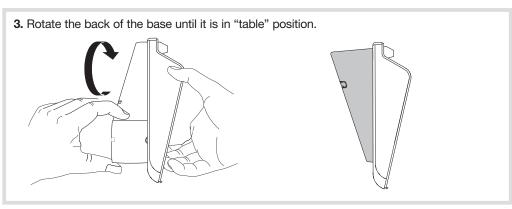
4.2 Charging the handset before installation

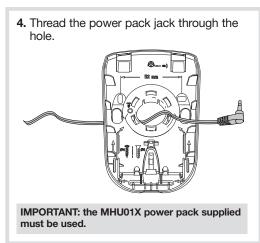
IMPORTANT: when installing the system, the handset(s) must be charged on the base before it/they can be used.

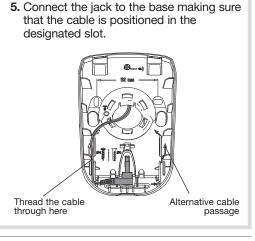
4.2.1 Handset on mains-powered base



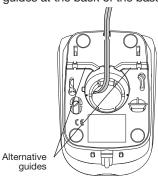








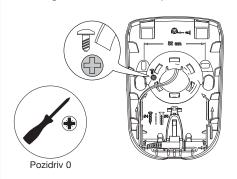
6. Thread the power cable into one of the guides at the back of the base.



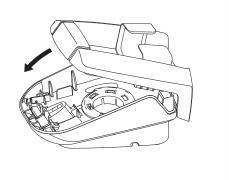


8. Screw it back into the same place hence locking the base in "table" position.

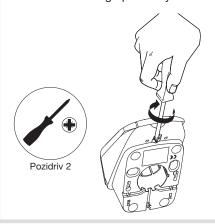
guides



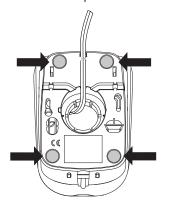
9. Close the base.

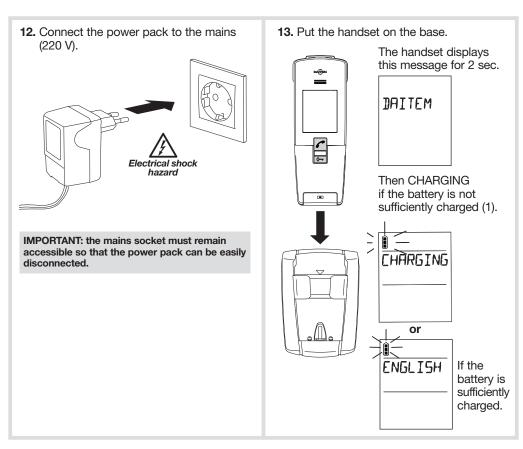


10. Tighten the locking screw to prevent the base from being opened by mistake.

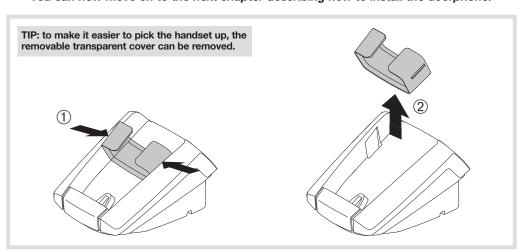


11. Stick the 4 anti-slip pads to the back of the base and then put it on the table.





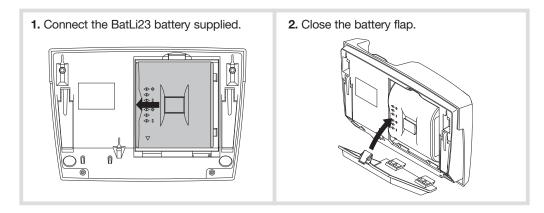
You can now move on to the next chapter describing how to install the doorphone.

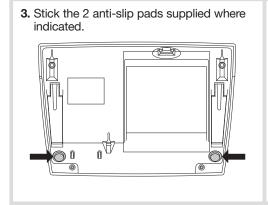


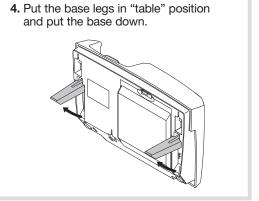
(1) For the rechargeable handset battery life to last its full period (15 days) when off its base, it must be left on its base to charge for at least 2 days beforehand (during which time it can of course be used).

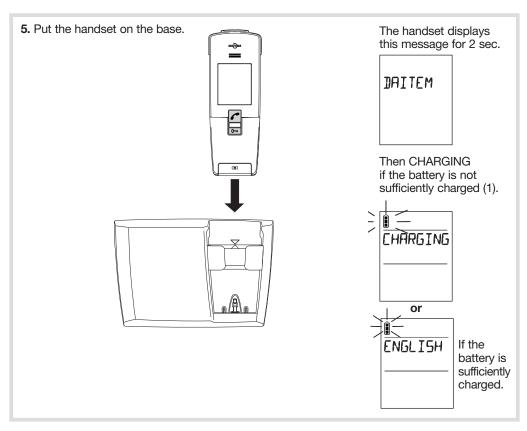
4.2.2 Handset on battery-powered base

See the chapter on Preparation/Guarantee stickers about how to open the battery-powered base.

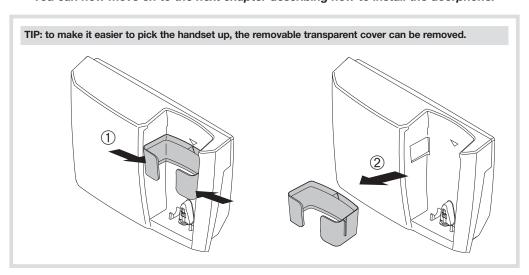








You can now move on to the next chapter describing how to install the doorphone.



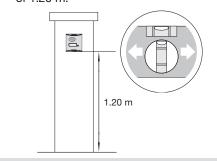
(1) For the rechargeable handset battery life to last its full period (15 days) when off its base, it must be left on its base to charge for at least 2 days beforehand (during which time it can of course be used).

5. Installing the outdoor system

5.1 Installing the outdoor caller unit

IMPORTANT: to ensure the outdoor caller unit remains watertight, never try to open it!

1. To ensure easy use, fix the unit at a height of 1.20 m.



 Mark and drill the outdoor caller unit holes with a Ø 6 mm drill bit.

Also mark the place where the cable feed hole has to be drilled (Ø 8 mm min. recommended).

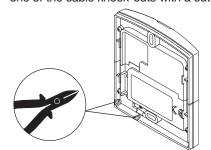


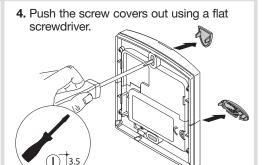


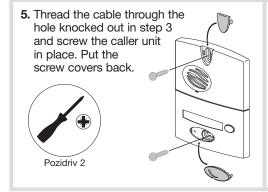
Please refer to the next chapter for mounting outdoor caller units with armoured cover.

Follow steps 3 to 6 below for units without armoured cover.

3. If the cable goes around the pillar, pierce one of the cable knock-outs with a cutter.

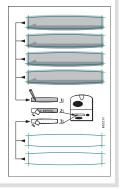




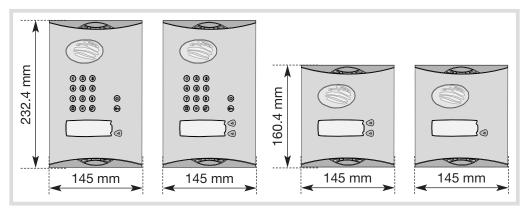


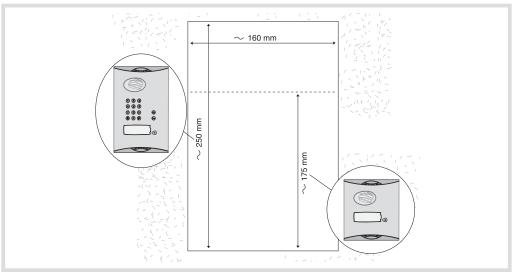
6. Use a pencil or permanent marker to write the names. Stick a transparent protection label on top.

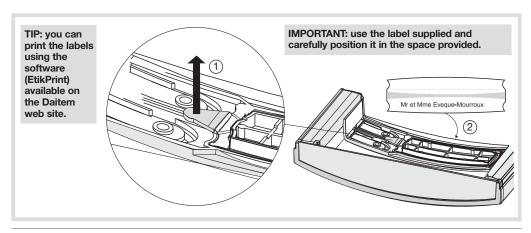
TIP: you can print the labels using the software (EtikPrint) available on the Daitem web site.

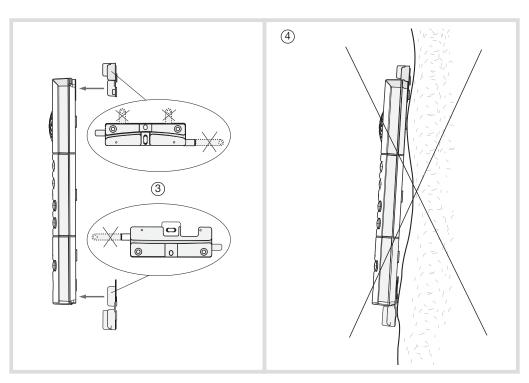


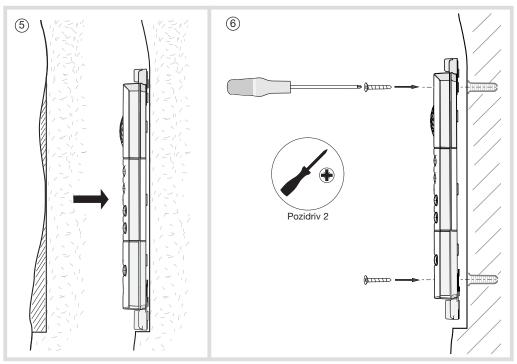
Mounting the outdoor caller units with armoured cover

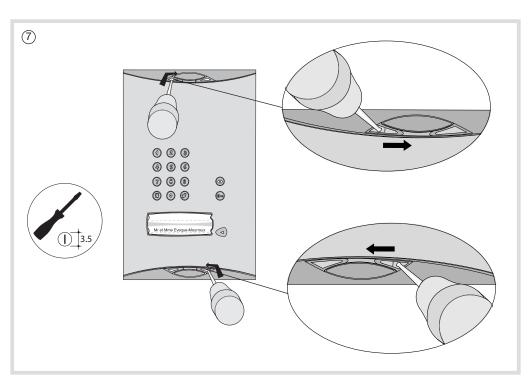


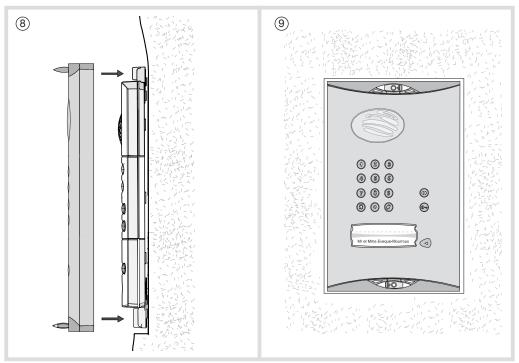


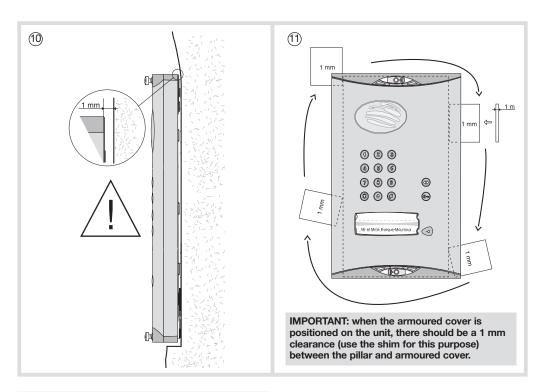


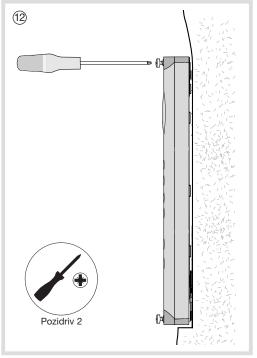






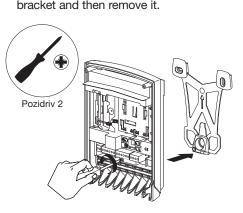




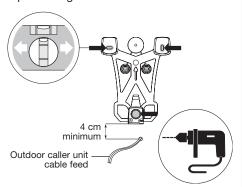


5.2 Installing the controller

1. Unscrew the locking screw from the bracket and then remove it.



Following the installation rules below, mark 3 fixing points and drill a hole in the pillar using a Ø 6 mm drill bit.



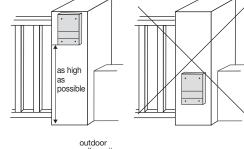
Installation rules

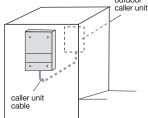
To make it easier to hook the base on to the bracket choose a flat surface (or make the surface as flat as possible) on the garden side of the pillar. This is especially important for the top part of the bracket.

To guarantee an excellent radio range:

- keep the space clear around the controller,
- remove any dense vegetation nearby and make sure the area is always clear,
- place the controller as high up as possible (80 cm min.).
- make sure there are no obstacles between the controller installation point and the house where the handset(s) is/are installed.

Do not wind the cable up nearby or inside the controller. Instead, cut off any excess length.

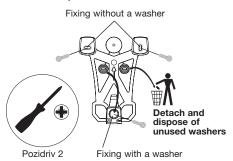




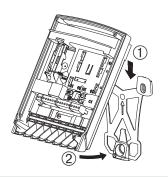
Do not place the products near metal surfaces (screens, fences, gates, etc.) or sources of electromagnetic disturbance:

- for the controller: electricity meter, high voltage line, lighting control system, radio receiver, etc.
- for the handset: hi-fi equipment, video, household appliance, electricity meter or switchboard, lighting control system, etc.
- the controller must be more than 3 m away from the interior handset unit.

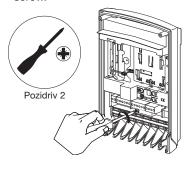
3. Insert a washer and fix the bottom and then the top of the bracket.



4. Hook the base on to the fixing bracket.

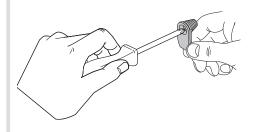


Lock the base in place using the locking screw.



5.3 Connecting the equipment

 To make it possible to thread the cables through (for the outdoor caller unit, external power supply, motorisation system, etc.), remove the grommets and pierce a hole with the same diameter as the cable using a Philips screwdriver.



2. Cut the cables to the necessary length and then thread them through the grommets. Expose the end of the wires over a length of approximately 1 cm.







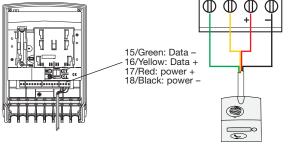


TIP

- · All terminal blocks can be unplugged to facilitate wiring.
- The connections to be made are summarised on a label inside the controller cover.

3. Connecting the outdoor caller unit Connect the 4 outdoor caller unit wires to terminal blocks 15 to 18 on the controller. 15/Green: Data -16/Yellow: Data + 17/Red: power +





16 17

TIP: if the cable between the outdoor caller unit and the controller has to be extended, keep or shorten the length of the cable supplied and then connect the wires to a branch box in accordance with the rules below:

- up to 10 m (including the remaining length of the original cable): use 4 x 0.32 mm² cross-section cable (AWG22) for the 4 wires
- from 10 to 15 m (including the remaining length of the original cable):
 - use 2 x 0.75 mm² cross-section cable (AWG18) for the supply wires (red and black),
 - use standard 2 x 0.16 mm² bunched cable (AWG25) with an impedance Z of 124 Ω for the Data wires (green and vellow)
- from 15 to 25 m (including the remaining length of the original cable):
 - use 2 x 1.5 mm² cross-section cable (AWG15) for the supply wires (red and black),
 - use standard 2 x 0.16 mm² bunched cable (AWG25) with an impedance Z of 124 Ω for the Data wires (green and yellow).

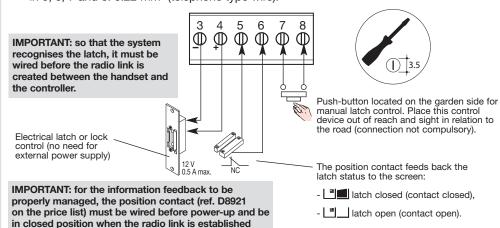
4. Connecting an electrical latch

Connect the latch according to the following cable cross-sections:

- in 3 and 4: 0.75 mm² up to 15 m/1.5 mm² up to 30 m,
- in 5, 6, 7 and 8: 0.22 mm² (telephone type wire).

between the handset and the controller. If no contact is connected, the handset display will show the latch is

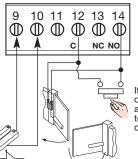
closed whatever its status.





Use a cable cross-section of 22 mm² (telephone type wire) to connect the system.

IMPORTANT: for the information feedback to be properly managed, the position contact (ref. D8921 on the price list) must be wired before power-up and be in closed position when the radio link is established between the handset and the controller. If no contact is connected, the handset display will show the gate is closed whatever its status.





If a push-button allowing manual control of the automatic system has already been installed, connect terminal blocks 12 and 14 in parallel on this manual control input.

The position contact feeds back the gate status to the screen:

- gate closed (contact closed),
- gate open (contact open).

Gate motorisation control, 48 V DC/1 A dry contact relay output.

The motorisation system requires an

external power supply.

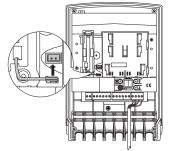
5.4 Powering the controller

1.A Mains-powered controller or Lithium battery controller

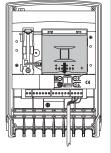
Three types of power supply can be used.

Lithium battery

IMPORTANT: 908-21X battery must be installed for current-based applications. Connect the battery supplied to the connector.

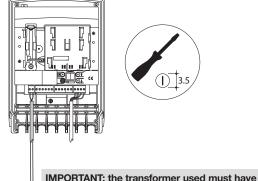


then connect the battery by positioning it on the rails and sliding it downwards.

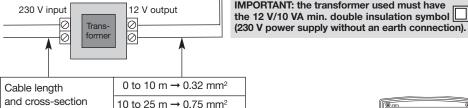




Connect a 12/24 V AC or 12/30 V DC power pack to terminal blocks 1 and 2 of the controller (transformer A7901 available in the catalogue). There are no polarities to be respected on these terminals.

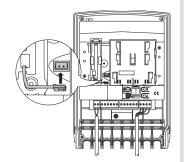






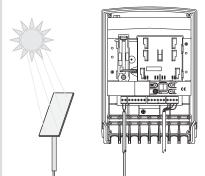
Optional

Connect the 908-21X battery supplied to its connector. It will be used in the event of a power cut.

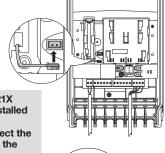


Solar panel

Connect a 12 V/8 W min. power solar panel (ref. MJU01X on price list) to terminal blocks 1 and 2 on the controller. There are no polarities to be respected on these terminals.



IMPORTANT: 908-21X battery must be installed for current-based applications. Connect the battery supplied to the connector.



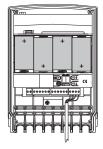


1.B Alkaline batteries controller

1. Two types of power supply can be used.

Alkaline batteries

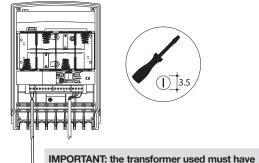
Position the 4 LR20 1.5 V batteries (not supplied) making sure they are the right way round.



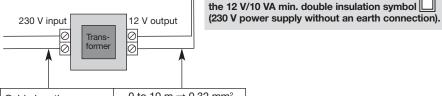
IMPORTANT: push the batteries into their slot making sure that the + pole of each one is in contact with the metal part.

Transformer

Connect a 12/24 V AC or 12/30 V DC power pack to terminal blocks 1 and 2 of the controller (transformer A7901 available in the catalogue). There are no polarities to be respected on these terminals.



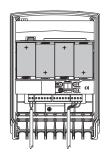




Cable length	0 to 10 m → 0.32 mm ²	
and cross-section	10 to 25 m → 0.75 mm ²	

Optional

Position the 4 LR20 1.5 V batteries (not supplied) making sure they are the right way round. The batteries are used as back-up in the event of a mains power failure.



2. When powered, the outdoor caller unit lights up and beeps for 2 sec. The radio link creation LED also lights up red for 2 sec.

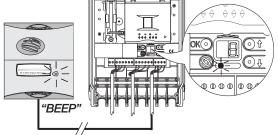
If this is not the case, check that the controller's batteries or external power supply are properly connected.

If the radio link creation LED flashes three times every 5 seconds:

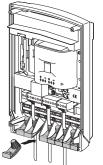
- remove the controller's power supply,
- check the outdoor caller unit wiring,
- reconnect the controller's power supply,

or

the battery is not connected.
 Check is it inserted
 and/or connected.



3. To ensure the controller is watertight, all the grommets must be positioned and locked into place the right way round.



4. Use the cable clamp and screws provided to lock the cables in place.

Do not loosen the cable clamps.

5.5 Creating the radio link between the handset and the controller

IMPORTANT: each call button on the outdoor caller unit can be linked via radio with up to 4 handsets.

1.	At this stage in the installation procedure, the handset should display:	Î
	If this is not the case, the handset needs to be charged (see chapter on Charging the handset before installation) until the language selection message is displayed.	ENGLISH
	Pick up the handset, open the cover and select the desired language (1) using the following keys then then	Î FRANCAIS
	The handset beeps for 2 sec .	
	Programme the time (1): A/ set the first digit using the keys	0.000
	B/ set the next digit using the key The key selects the previous character	-1000
	C/ return to steps A and B to set the minutes and then, once the desired time has been programmed, press OK. The handset beeps for 2 sec .	1256-
4.	The handset then moves on to radio link set-up mode and displays:	Û
	IMPORTANT: after 2 minutes, the handset exits radio link creation mode and displays: Reprogramme the time (Step 3 in this chapter), then refer to the procedure described in chapter "9.1.5 Specific cases, creating a radio link between a handset and several controllers or several outdoor caller unit call buttons" in order to create the radio link between the controller and the handset.	WAIT
5.	Pick up the handset, stand next to the controller and follow the procedure on the ne	ext page:

IMPORTANT: the handset does not need to be placed next to the controller for recognition programming. In fact, it is advisable to move it at least 2 metres away from the controller.

(1) These parameters can be modified at a later stage (see User manual/Modifying handset operating options/Modifying options for use).

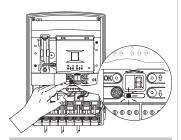
Controller

Handset unit

Outdoor caller unit

6. Put the controller in radio link creation mode by pressing

The radio link creation LED lights up orange.



7. The radio link creation LED lights up orange.

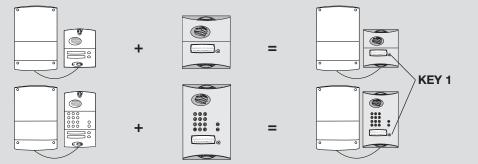
The handset displays:



8. Press once on the outdoor caller unit call button so that it calls the handset.



IMPORTANT: when using a translucent MHF01X or MHF02X outdoor caller unit and 1-button armoured cover, only the bottom key (KEY 1) can be accessed once the armoured cover has been placed on the unit.



Controller

The radio link LED lights up

green for 2 sec.

Handset unit

Outdoor caller unit

9. The handset displays:

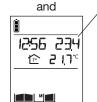


then



Display of time, indoor and outdoor temperature, gate, side gate and latch status (if position contacts connected).

beeps for 2 sec



The outdoor caller unit beeps for 2 sec.



The radio link has been created.

If an error occurs, the handset displays:

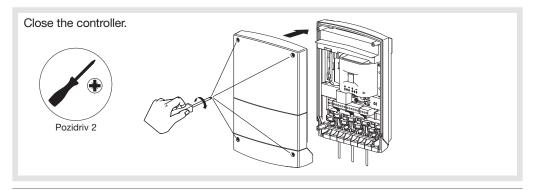


It beeps 3 times and then automatically returns to the next screen:



Start the radio link creation procedure again.

Carry out the radio link creation procedure again for all the handsets.



6. Testing the radio range

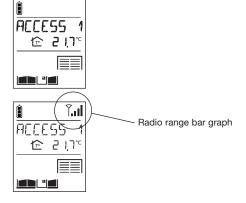
Before installing the handset base, make sure the radio range between the handset and the controller(s) is good.

- 1. Stand in the place you wish to install the handset unit and quickly press the key.
- If you have several access points: select the access point from where you would like to listen in to background sounds using the keys



You can hear what is happening around the outdoor caller unit at the selected access point. Reception is good if at least 3 bars are displayed.

If this is not the case, move the handset.



4. Press on the key and test the radio range again for each access point.

IMPORTANT: if the handset units or controllers are too close to each other when you are testing the radio link, this may generate interference (Larsen effects, crackling, etc.). Move the various devices over 3 metres away from each other.

7. Installing the interior handset unit

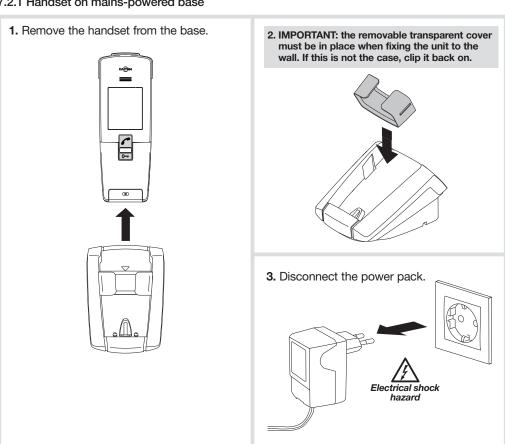
7.1 On a table

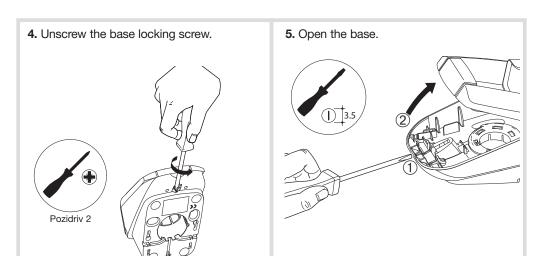
The table mounting procedure is described in the chapter on Charging the handset unit before installation.

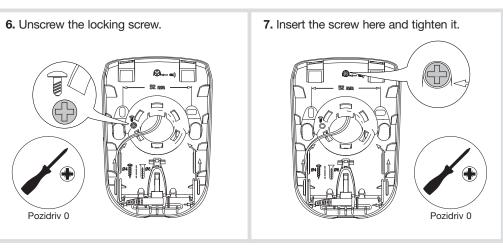
7.2 On a wall

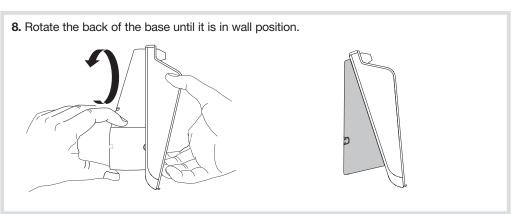
This chapter describes how to move the handset unit from a "table" position (in which the handset unit is normally placed at this stage in the installation, see chapter on Charging the handset unit before installation) to a "wall" position.

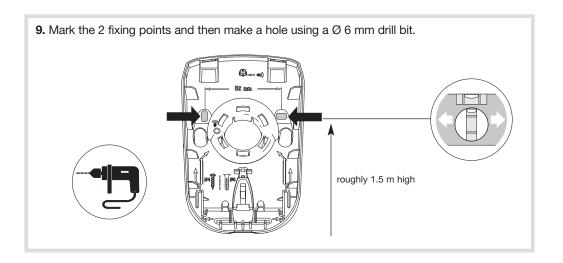
7.2.1 Handset on mains-powered base

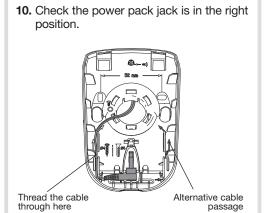


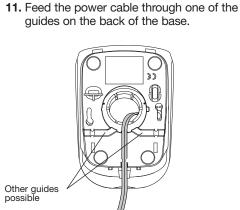


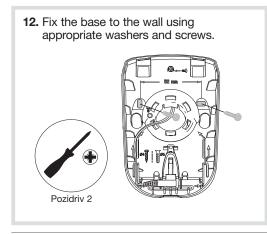


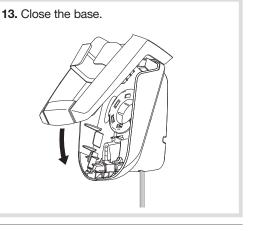


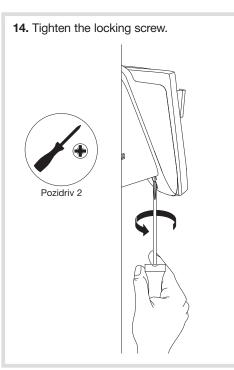








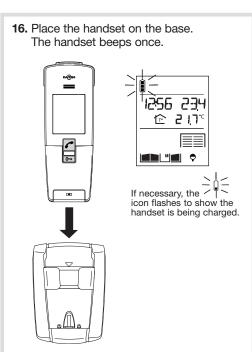




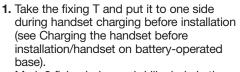
15. Connect the power pack to the mains (220 V).

Electrical shock hazard

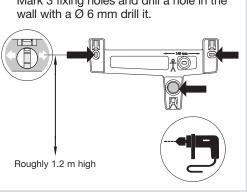
IMPORTANT: the mains socket must remain accessible so that the power pack can be easily disconnected.



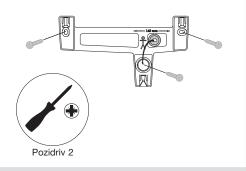
7.2.2 Handset on battery-operated base



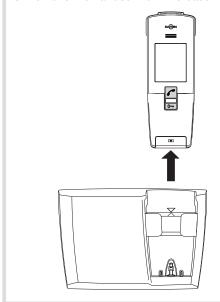
Mark 3 fixing holes and drill a hole in the



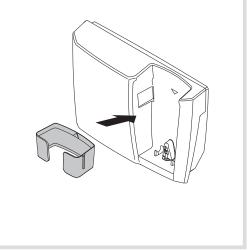
2. Insert the washer and fix the T using appropriate screws and washers.

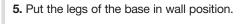


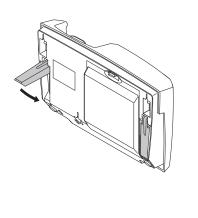
3. Remove the handset from the base.

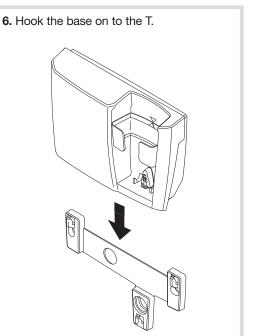


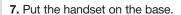
4. IMPORTANT: the removable transparent cover must be in place when fixing the base to the wall. Clip it back on if this is not the case.

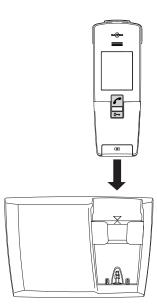












The handset beeps.



If necessary, the icon flashes to indicate that the handset is charging.

8. Testing operation

8.1 Testing communication with each interior handset unit

Press on the outdoor caller unit call button.

To confirm the call, the outdoor caller unit rings at regular intervals for 30 sec.



IMPORTANT

If the handset being called is already:

- · communicating with another outdoor caller unit or handset.
- · outside the radio range, the outdoor caller unit sounds engaged.

2. The handset rings (1) (except if it is in silent mode), and the backlighting flashes.



The name of the access point calling (2) is displayed.

- 3. If the handset is on its base, pick it up:
 - if the automatic pick-up mode is activated, communication is established.
 - otherwise, press the key.



If the handset is already off the base, press 🥒

- 4. Open the flip cover to talk and adjust the audio communication volume using the keys.
- 5. At the end of communication, press



and/or put the handset back on the base to hang up (the handset issues 3 beeps if it is correctly placed on the base).

If no button is pressed, the communication is automatically cut off after 3 minutes.



volume +

volume -

Perform the same test for all of the handsets

- (1) If there is no answer, the handset rings for 20 sec. (factory setting) then stops. The duration of ringing can be adjusted (see Programming handset operating options). If the handset is on the base, it rings at the programmed volume (see Modifying handset operating options). If the handset is off the base, ringing gradually becomes louder (from level 1 to the programmed volume).
- (2) Access point names can be customised (see Modifying doorphone operating options).

8.2 Testing access controls

IMPORTANT: to test the access controls, it is first necessary to register a tag or programme an access code on the outdoor caller unit (see User guide/11.2 Modifying tag options/11.3 Modifying access code options).

Activate the outdoor Status display Latch access status caller unit on the handset (1) 1. Hold the tag in front of the name label. Or enter the access code (2) 1256 234 企 217℃ Closed 2. If a latch is connected, it will Open be unlocked within 1256 234 5 seconds. 企 217° or or If a gate alone is connected (without a latch), side gate 1256 234 access is unlocked within 企 2179 5 seconds.

For additional tests (gate access, listen-in and inter-handset communication functions, etc.), please refer to the corresponding chapters in the user manual.

The doorphone is now operational. If need be, you can customise it by following the instructions in the chapters on Modifying outdoor caller unit operating options and Modifying handset operating options in the user manual.

⁽¹⁾ If a position contact is connected.

⁽²⁾ If you press the wrong button, press (3) then enter the access code again.

9. Appendices

9.1 General information about creating the radio link

An OPTWIN installation is a home-control system in which all the doorphone products communicate with each other via a hardwired bus or radio.

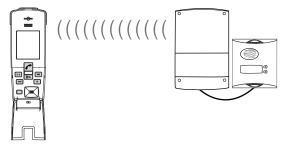
It comprises different types of products that can be classed according to their function at a given time T in the installation:

- "Transmitter" products: these send commands or information following actions (e.g. when the handset Light button is pressed) or events (e.g. when the gate is closed via the controller).
 A "Transmitter" product can generate several different commands (e.g. Light or Garage buttons on the handset).
- "Receiver" products: these receive commands and information and activate the appropriate
 applications (lighting, automatic control system, etc.) or respond according to their
 programming. These applications or responses are also called functions.
 A "Receiver" product can have several functions (e.g. 2-channel relay output receiver, strobe
 and siren sounding, etc.).

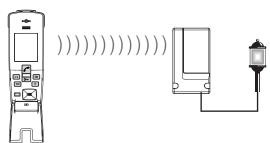
It should be noted that products may act as "Transmitters" and "Receivers".

Examples:

Audio communication between the handset and the outdoor caller unit. The handset is considered as the receiver while the controller/outdoor caller unit act as the transmitter.



The Light button on the handset controls the lighting connected to the relay output receiver. The handset is considered as the transmitter while the output receiver acts as the receiver.



Configuring an OPTWIN installation consists in:

- Creating radio links between the different transmitter and receiver products to define who
 controls who and who sends information to whom.
- Allocating a function to each radio link, e.g. when the Light button on the handset is pressed, this activates the lighting controlled by the output receiver for 5 minutes.

A radio link is created and a function is allocated to this radio link as part of the same procedure. This procedure is as follows:

Transmitter	Receiver
1. Switch to radio link creation mode.	
	2. Switch to radio link creation mode.
	3. Select the function.
4. Select the button or event associated with the function.	
5. Validate the procedure.	

9.1.1 The controller is used as a transmitter

Application examples

By creating a radio link between a controller and an output receiver, the following applications can be set up:

- gate opening can switch on lighting to facilitate night time access and gate closing can switch off lighting,
- electrical latch opening can switch on courtesy lighting for a programmable duration,
- etc.



 pressing on the outdoor caller unit call button can trigger a door bell installed elsewhere for a programmable duration.

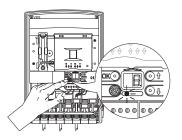


Controller

1. Switch to radio link creation mode.



The radio link creation LED lights up orange.



Receiver

- 2. Switch to radio link creation mode.
- 3. Select the function.

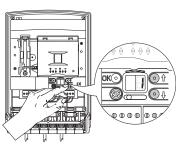
Information available in the receiver product manual.

Controller

Receiver

4. Select the event associated with the function.

Using the $\bigcirc \widehat{\underline{\upphantom{1}{1}}}$, $\bigcirc \widehat{\underline{\upphantom{1}{1}}}$ keys and controller display



Event N°	Event name	Comment
1	Gate opening	This event is displayed when the gate is opened.
2	Gate closed	This event is displayed when the gate closes, as long as limit switches have been wired.
3	Latch opening	This event is displayed when the latch is opened.
4	Side gate closed	This event is displayed when the side gate closes, as long as limit switches have been wired.
5	Day breaking (1)	This event is displayed when the day breaks. Useful for switching off night lighting.
6	Night falling (1)	This event is displayed when the night falls. Useful for switching on night lighting.



4. Select the key associated with the function.

Press: gate , latch , or cal on the outdoor caller unit.

IMPORTANT: step 5 is not necessary if the outdoor caller unit gate, latch or call buttons have been selected.

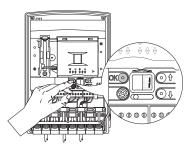
(1) Event only available with an MHF01X or MHF02X caller unit.

Controller

Receiver

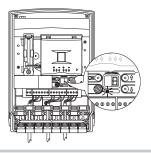
5. Validate the procedure.

Press OK(•)



The radio link creation LED lights up green for 2 sec.

Otherwise, start the procedure again.



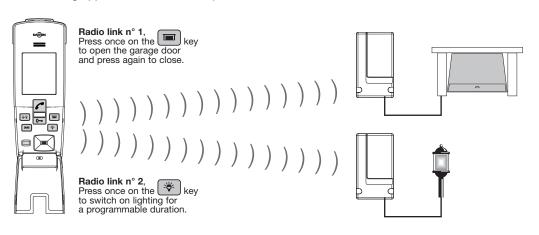
The radio link has been created.

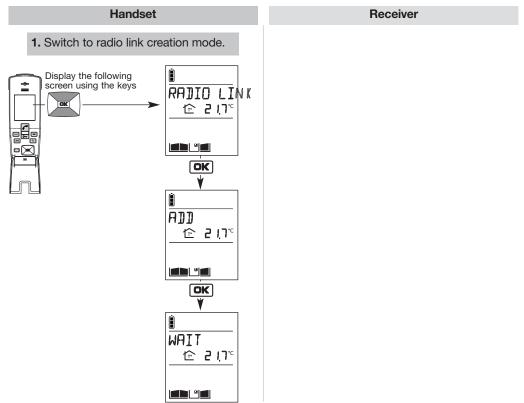
IMPORTANT: if an error occurs, the radio link LED flashes red 3 times. The radio link creation process should be performed again in this case.

9.1.2 The handset is used as a transmitter

Application examples

By creating a radio link between the or well keys on the handset and an output receiver, the following applications can be set up:





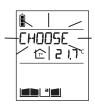
Handset

Receiver

- 2. Switch to radio link creation mode.
- 3. Select the function.

Information available in the receiver product manual.

4. Select the key associated with the function.



Press on the or key





then

Select a command from the following:

GARAGE 1 or LIGHT 1
GARAGE 2 LIGHT 2
GARAGE 3 LIGHT 3
GARAGE 4 LIGHT 4

Using the keys





5. Validate the procedure.

Press OK

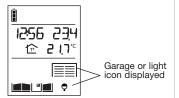
the handset displays:



then



beeps for 2 sec and



The radio link has been created.

If an error occurs, the handset displays:



It beeps 3 times and then automatically returns to the general information screen:



Receiver

Perform the radio link creation procedure again.

Transmitter

1. Switch to radio link creation mode.

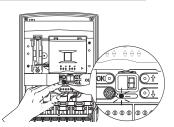
Information available in the transmitter product manual.

Controller

2. Switch to radio link creation mode.



The radio link creation LED lights up orange.

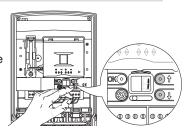


3. Select the function.



<u>O</u>, (

keys and the controller display.

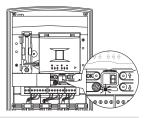


Event N°	Event name	Comment
1	Gate	Triggers the external motorisation system manual control to open the gate.
2	Side gate	Triggers the external motorisation system manual control to open the side gate.
3	Latch	Triggers the controller latch.

- **4.** Select the key or event associated with the function.
- **5.** Validate the procedure.

Information available in the transmitter product manual.

The radio link creation LED lights up orange. Otherwise, perform the procedure again.



The radio link has been created.

IMPORTANT: if an error occurs, the radio link creation LED flashes red 3 times. Perform the radio link creation procedure again.

Example: operating the controller relay using the button on the handset.



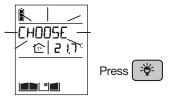
Handset

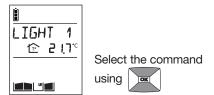
1. Put the handset in radio link creation mode.

Display the screen:



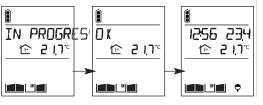
4. Select the key associated with the function.





5. Validate the procedure.

Press OK



Controller

2. Put the controller in radio link creation mode.

Press



3. Select the function.

Select function 1 using ⑥介, ⑥认 (1)

The radio link creation LED lights up green for 2 sec.

(1) The relay pulse duration can be adjusted (see ACCES /TIME DELAY menu)

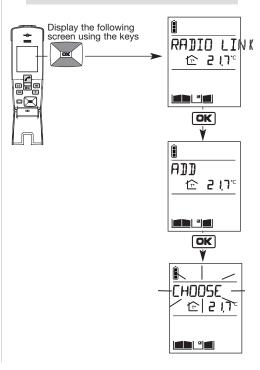
Transmitter

1. Switch to radio link creation mode.

Information available in the transmitter product manual.

Handset

2. Switch to radio link creation mode.



Transmitter

Handset

3. Select the function.

Select one of the 9 ringing tones available using the keys .

The handset displays:



then



beeps every 2 sec and



- **4.** Select the key or event associated with the function.
- **5.** Validate the procedure.

Information available in the transmitter product manual.

The radio link has been created.

If an error occurs, the handset displays:



It beeps 3 times and then automatically returns to the general information screen:

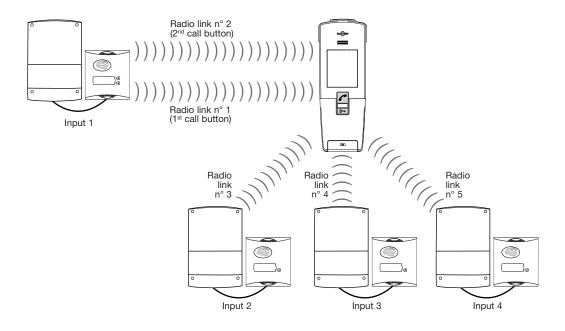


Perform the radio link creation procedure again.

9.1.5 Specific cases

 Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons.

A handset can be associated with 4 different inputs. By creating a radio link between the handset and the controller (see chapter on Installing the doorphone), you have created radio link n° 1 (e.g. handset programmed for the 1st call button and input 1).



To create radio links n° 2, n° 3, n° 4 and n° 5, follow the procedure below:

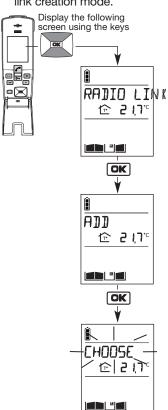
Controller	Handset	Outdoor caller unit
1. Switch the controller to radio link creation mode by pressing		
The radio link creation LED lights up orange.		

Controller

Handset

Outdoor caller unit

2. Switch the handset to radio link creation mode.

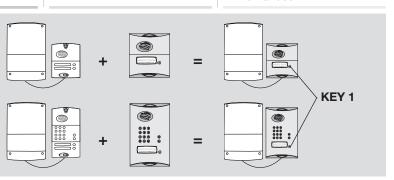


The radio link creation LED flashes orange.

3. Press once on the outdoor caller unit call button to call the handset.



IMPORTANT: if you are using an MHF01X or MHF02X translucent outdoor caller unit and a 1-button armoured cover, only the bottom button (KEY 1) is accessible once the cover is in place.



Controller

The radio link creation LED

lights up green for 2 sec.

Handset

Outdoor caller unit

4. The handset displays:



then



beeps for 2 sec.



Display of time, indoor and outdoor temperature, gate, side gate or latch status (if position contacts connected).

The outdoor caller unit beeps for 2 sec.



The radio link has been created.

If an error occurs, the handset displays:



It beeps 3 times and then automatically returns to the general information screen:



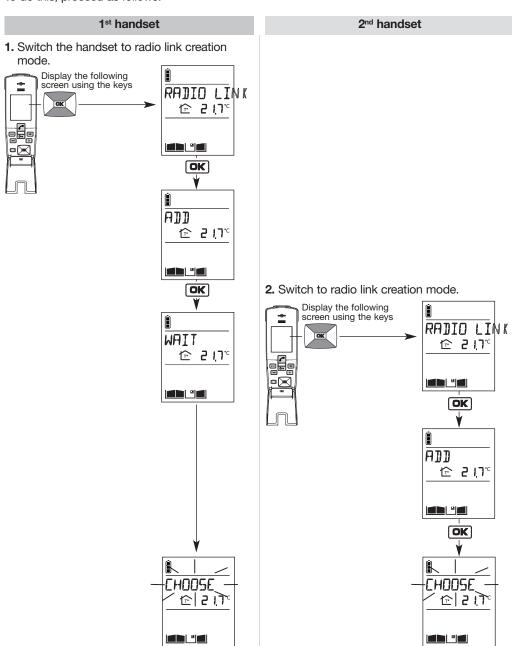
Perform the radio link creation procedure again.

· Creating a radio link between several handsets

IMPORTANT: each handset can be linked via radio with a maximum of 7 other handsets.

To allow several handsets to communicate with each other (inter-handset communication), a radio link has to be created between each one.

To do this, proceed as follows:





- 3. Press
- 4. The handset displays:



then



beeps for 2 sec. and



2nd handset

4. The handset displays:



then



beeps for 2 sec.

and



The radio link has been created.

If an error occurs, the handset displays:



It beeps 3 times and then automatically returns to the general information screen:



Perform the radio link creation procedure again.

9.2 Testing the radio links

This function is used to test the radio links created between a handset and a controller.

To do this, open the controller cover and proceed as follows:

Handset Controller 1. Switch the handset to radio link test mode. Display the following screen using the keys RADIO LINK 1 2 1,7° OK ADD 1 2 1,7° TEST 1 2 1,7° OK 企口门 2. Press or ACCESS 企 217℃

Handset

3. Select the controller to be tested using the keys

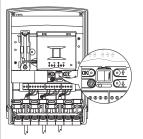


4. Press again on [



Controller

The controller screen displays "1".



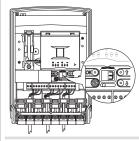
The kev is linked via radio to the controller gate output.

The controller screen displays "2".



The 0key is linked via radio to the controller side gate output.

The controller screen displays "3".



The is linked via radio to the controller latch output.

5. Press twice on

The controller beeps 3 times and the display goes out.

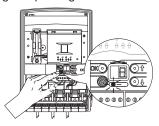
6. After several seconds the handset exits radio link test mode and returns to the general information screen.

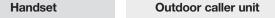
9.3 Deleting radio links and returning to factory programming

9.3.1 Deleting a radio link between a controller and a handset

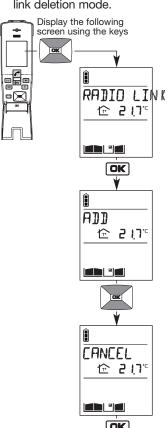
This function is used to delete the radio links created between a controller and a handset.

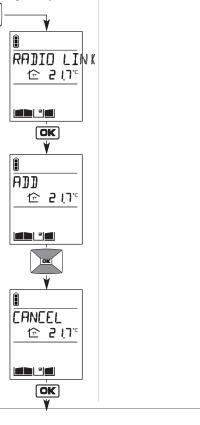
Controller 1. Press The radio link creation LED lights up orange.





2. Switch the handset to radio link deletion mode.





Controller

The radio link creation LED flashes orange.

Handset



Outdoor caller unit

3. Press once on the outdoor caller unit call button to call the handset.



4. The handset displays:





beeps for 2 sec.



The outdoor caller unit beeps for 2 sec.



The radio link has been deleted.

If an error occurs, the handset displays:

The radio link creation LED lights up green for 2 sec.



It beeps 3 times and then automatically returns to the general information screen.

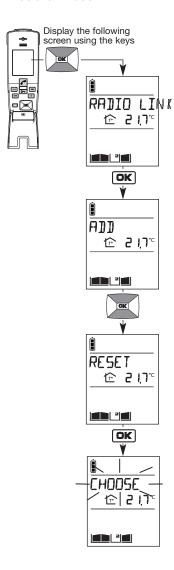


Perform the radio link deletion procedure again.

9.3.2 Returning the handset and controller to factory programming

This procedure is used to delete all the radio links and reset all handset and controller parameters to their factory value.

1. Switch the handset to radio link deletion mode.



2. Press and hold **OK** until the screen displays OK

The handset displays:





beeps for 2 sec. and



If an error occurs, the handset displays:

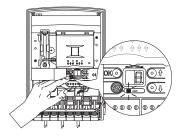


It beeps 3 times and then automatically returns to the general information screen.



Perform the radio link deletion procedure again.

3. Quickly press and then release the key.



4. Press and hold for more than 10 sec. until the radio link LED stops flashing red. The LED will then light up green for 2 sec. The outdoor caller unit beeps for 2 sec.

The handset and controller have been returned to their factory settings.

10. Changing the batteries

IMPORTANT

- There is a risk of explosion if the battery/ies is/are not properly replaced.
- Replace the flat battery/ies with the same type.
- Do not expose the battery to excessive heat (e.g. a flame) and do not throw it in a fire.

Dispose of flat batteries in the appropriate waste disposal containers.

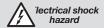


10.1 In the controller

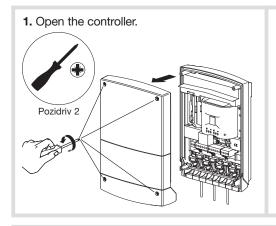
When the "BATTERY ACCESS X" message appears, you have 1 month in which to change the batteries of the controller concerned.



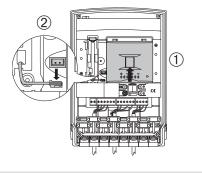
IMPORTANT: disconnect the controller from the electrical network before carrying out any maintenance work.



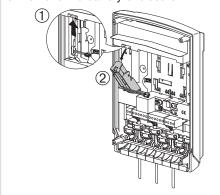
Lithium battery



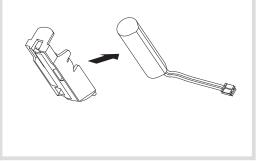
2. Remove the MPU01X battery and then disconnect the other battery.



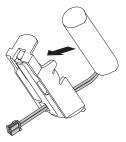
3. Remove the battery enclosure.



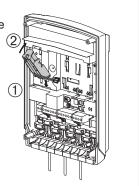
4. Remove the flat battery from its box.



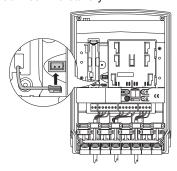
Replace it with a new one (ref. 908-21X)
making sure to thread the connector
through the hole in the enclosure.



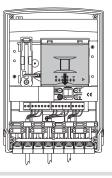
Reposition the battery enclosure in the controller.



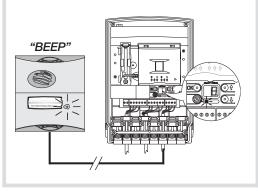
7. Reconnect the battery.



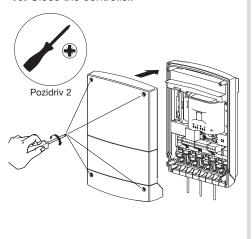
8. Connect a new MPU01X battery.



9. When powered, the radio link creation LED lights up red for 2 sec, the outdoor caller unit lights up and also beeps for 2 sec. If this is not the case, check the batteries have been correctly inserted.

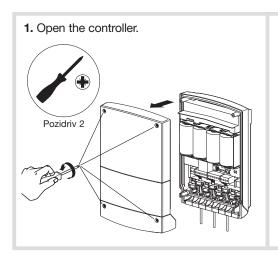


10. Close the controller.

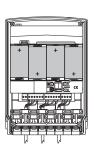


No reprogramming is required after the batteries have been changed.

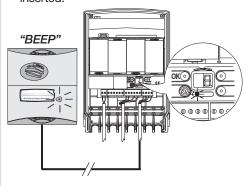
Alkaline batteries



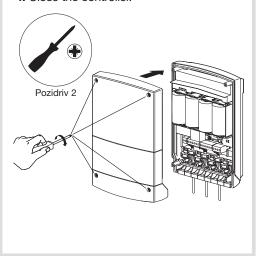
2. Replace the 4 flat LR20 batteries with new ones.



3. When the controller is powered, the radio link LED lights up red for 2 sec, the outdoor caller unit lights up and also beeps for 2 sec. If this is not the case, check the batteries have been correctly inserted.



4. Close the controller.

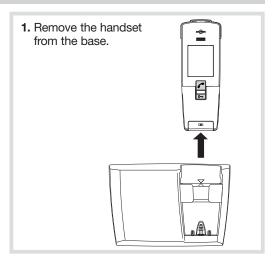


No reprogramming is required after the batteries have been changed.

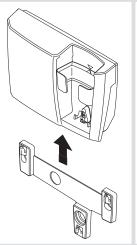
10.2 In the battery base

When the message "BATTERY BASE" is displayed, the base battery has to be replaced within a month.



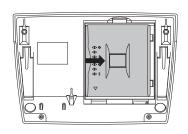


2. If the base is fixed to a wall, remove the fixing T.

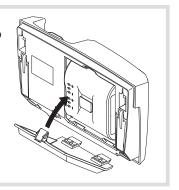


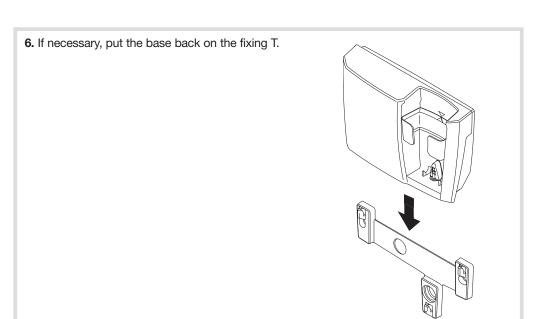
3. Open the battery flap.

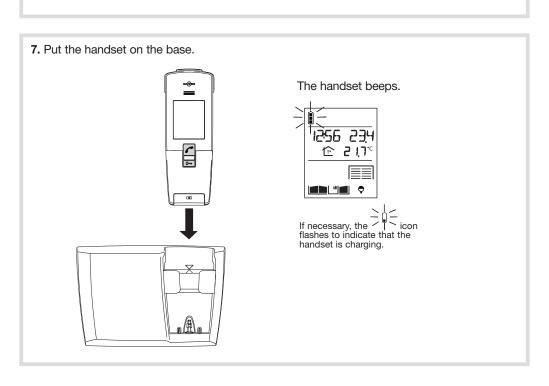
4. Remove the flat BatLi23 and replace it with a new one.



5. Close the battery flap again.



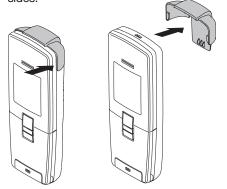




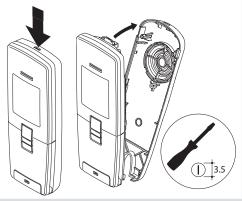
10.3 In the handset

When you change the controller batteries, it is also advisable to change the handset batteries.





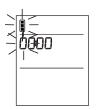
2. Insert a flat screwdriver into the slot and press to open the handset.



Replace the flat MTU01X battery with a new once.



4. Close the handset, put the belt clip back on and then place the handset back on its base in order to start it up.



If necessary, the icon flashes to indicate that the handset is charging.

5. Programme the time using



and **OK**.

The temperature display will be updated several minutes after the handset has been powered.



11. Questions - Answers

Questions

Why can conversation be "broken" when using the handset?

What causes the interference (Larsen effect, crackling, etc.) that can be heard in the handset?

Why does the reception quality vary when I move around with the handset?

Answers

This can happen when you are at the radio reception limit. The controller cuts off communication when you go beyond this limit. You should move closer to the controller.

This can happen when the handset is too close to another handset or the controller. Move the various devices over 3 metres away from each other.

If there is no electromagnetic interference or no obstacle between the handset and the controller, the "free field" radio range is roughly 400 m. When the handset is inside the home, the radio range is less.

Radio wave propagation is limited depending on the type and thickness of the walls or partitions through which they pass.



Plasterboard and wood 10% to 30% reduction

Brick 30% to 50% reduction



Metal and metal cladding 70% to 90%

What should I do if I lose the display on my handset?

What should I do if the handset does not beep and display \(\) when I put it back on its base?

Can I clean my doorphone?

What should I do if the handset does not ring during a communication test?

How should I go about changing controller connections when it has already been operating for several weeks (e.g. to connect a latch?)

Simply recharge the handset on its base. The time must be reprogrammed (HANDSET/SETTINGS/TIME menu)

Check the mains power supply or the state of the handset base battery.

Use soapy water and a soft cloth to clean products whenever necessary.

Do not use alcohol or acetone to clean them.

- Check the radio range (see Testing the radio range) and move closer to the controller if necessary.
- Check that the handset is not in silent mode (ﷺ icon displayed).

Simply connect the latch or automatic control system without disconnecting the power to the controller. When connecting a latch or position contact, the existing radio links must be recreated (see Appendix/Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons).

Questions **Answers** When a radio link is created between a handset and the controller, the position contact must be closed. If this was not the case when the link was created, it must be deleted and recreated (see Appendix/Deleting radio links and then Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons). For a Daitem brand automatic control system, check the Why does the handset not display the status of the wiring and check for any short-circuits between terminal motorisation system connected? blocks 9 and 10. For an automatic control system belonging to another brand: check that the position contact is connected to terminal blocks 9 and 10. • when there is a position contact connected, place the gate in a position so that the position contact is closed and check that it is displayed on the screen. Why does the outdoor caller unit The tag has not been registered (see Programming doorphone issue 3 error beeps when a tag is operating functions). held up to it? Change the controller batteries (see Appendix/Changing the Why is the "BATTERY ACCESS batteries). It is advisable to change the handset battery at the X" message displayed? same time. Why is the "BATTERY BASE" Change the handset base battery. message displayed? Why is the "CHARGE Put the handset on the base to charge it. HANDSET" message displayed? Why is the "MEMORY FULL" The handset's memory capacity has been reached. message displayed when a radio Delete some of the radio links (see Appendix/Specific link is created? cases/Creating a radio link between several handsets). Check there is a radio link between the handsets. Why is communication with (see Appendix/Specific cases/Creating a radio link another handset impossible? between several handsets). What does the \to icon A visitor came to the outdoor caller unit while you were out. displayed on the handset mean? To delete the icon, press on a handset button. Delete all the programmed codes (ACCESS/CODES/DELETE menu) How can I change the access Modify the size of the access codes code, e.a. from 4 to 6 digits? (ACCÉSS/CODES/SIZE menu) - Reprogramme all the codes (ACCESS/CODES/ADD menu) Check the wiring and its characteristics (12 V, 0.5 A max.). If controller base is powered by solar panel or MPU01X, 908-21X battery must be installed. If the latch is an addition to the

initial installation, the existing radio link must be deleted and a

new one created (see Appendix/Deleting radio links and then Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons).

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What should I do if I cannot

operate the latch?

12. Technical data

General data

- Failsafe multi-frequency radio technology with a free field (1) range of up to 400 m, according to environmental and installation conditions
- Radio link: 868 870 MHz, 25 mW max, Duty cycle: 0,1%, Rx: category 2
- High-fidelity digital sound

Outdoor caller unit data

- External boxes made of polycarbonate
- Controller and outdoor caller unit degree of protection: IP54/IK08
- Operating temperature from 20°C to + 70°C
- Controller power supply: 2 x (3.6 V 17 Ah) MPU01X lithium batteries + 1 x (3.6 V 700 mAh) 908-21X lithium-ion battery and/or 12/24 VAC or 12/30V DC power supply and/or 12 V 8 W min. power solar panel, ref. MJU01X or 4 LR20 type 1.5 V alkaline batteries
- 5-year battery life (with MPU01X battery) or 3-year battery life (with 4 LR20 batteries) (2)
- Wiring using 4 wires between the outdoor caller unit and the controller
- Control and powering of any type of low consumption (0.5 A max.) 12 V latches.
- Control of safety ELV motorisation system able to operate with a 48 V DC/1 A dry contact (relay or switch)
- All controller inputs/outputs are SELV types

Internal handset unit data

- Interior boxes made of ABS
- Degree of protection: IP31/IK04
- Operating temperature from -5°C to +55°C
- Base powered by: batteries: BATLi23 lithium battery 2 x (3.6 V 17 Ah)
 - mains supply: via 220 V/6 V transformer
- Rechargeable handset powered by MTU01X plug-in lithium-ion battery
- Rechargeable handset battery life when off base: 15 days (3)
- Battery base battery life: 5 years (3)
- (1) The free field range corresponds to the maximum theoretical distance separating the controller and the handset when there are no obstacles in the way (e.g. wall, screen, vegetation, electromagnetic disturbance, etc.) likely to reduce the range.
- (2) The battery life is based on household use, i.e.: 2 x 10-second communications, 7 latch commands and 6 gate commands per day for a controller and an outdoor caller unit without digicode, 1 x 10-second communication, 4 latch commands (without outdoor caller unit backlighting) and 5 gate commands (without outdoor caller unit backlighting) per day for a controller and outdoor caller unit with digicode.
- (3) The battery life is based on household use, i.e. 2 x 10-second communications, 2 x 10-second inter-handset communications and 6 commands (2 latch commands, 2 gate commands, 1 lighting command, and 1 garage door command) per day. For the rechargeable handset battery life to last its full period (15 days) when off its base, it must be left on its base to charge for at least 2 days when it is first powered or 4 days if the display screen disappears (during which time it can of course be used).

Hager Security SAS hereby declares that the radioelectric equipment, references SC100AX, SC101AX, SC200AX, SC201AX, SC206AX, MHF01X, MHF02X, MHF03X, MHF04X, MHF05X, MHF06X, complies with the requirements of the following 2014/53/EU RE-D directive.

The full text of the EU Declaration of Conformity is available at the address: www.daitem.co.uk.

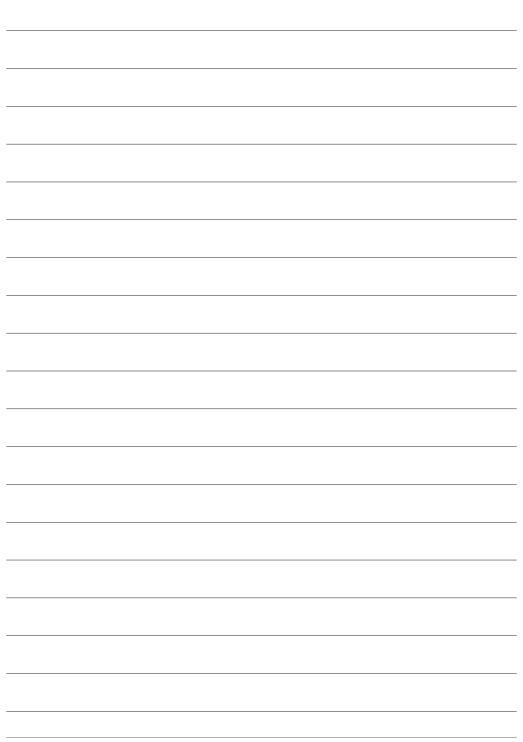
Non-binding document, subject to modification without notice.

Waste processing of electrical and electronic devices at the end of their service life (Applicable in European Union countries and other European countries with a waste collection system). Used on products or product packaging, this symbol indicates that the product must not be thrown out with household waste. It must be taken to a waste collection point for electrical and electronic product recycling. When you make sure

that this product is disposed of in the most appropriate manner, you are helping to protect the environment and human health. If you would like additional information concerning the recycling of this product, please contact

your town/city council, nearest waste collection centre or the shop where you bought the product.









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