Installation guide



Doorphone

SC901AU / SC902AU SC100AU SC200AU / SC201AU MHF01X / MHF02X MHF03X / MHF04X MHF05X / MHF06X





This manual describes how to install the following products: SC901AU Mains/mains code-operated 1-home doorphone kit SC902AU Lithium/mains 1-button 1-home doorphone kit SC100AU Interior handset unit + base + EU power pack SC200AU Mains controller SC201AU Lithium battery-operated 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).

CE

Product type: Doorphone

of the following directives:

R&TTE Directive: 99/5/CE

ROHS directive: 2002/95/CE

Low Voltage Directive: 2006/95/CE

Trade mark: Daitem

Product reference

(GB)

10

France

CLARATION OF CONFORMITY
CLARATION OF CONFORMITY nufacturer: Hager Security SAS Iress: F-38926 Crolles Cedex - Fr

Product type: Doorphone

Trade mark: Daitem

We declare under our sole responsibility that the products to which this declaration relates are compliant with the essential requirements of the following directives:

- R&TTE Directive: 99/5/CE
- Low Voltage Directive: 2006/95/CE ROHS directive: 2002/95/CE

in compliance with the following harmonised European standards:

Product reference	SC100AU	SC200AU	SC201AU
EN 300 220-2 V2.1.2	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 and EEA countries and Switzerland.

Crolles, 06/05/10



EN 300 330-2 V1.3.1 EN 60950 (2006) х х х х х EN 301 489-1 V1.8.1 х х х х х These products can be used in all EU and EEA countries and Switzerland. Crolles, 06/05/10

DECLARATION OF CONFORMITY

Address: F-38926 Crolles Cedex - France

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х

х

MHF01X MHF02X MHF03X MHF04X MHF05X MHF06X

х

х

Signature: Patrick Bernard Research & Development Director



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(GB)

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Non-binding document, subject to modification without notice.

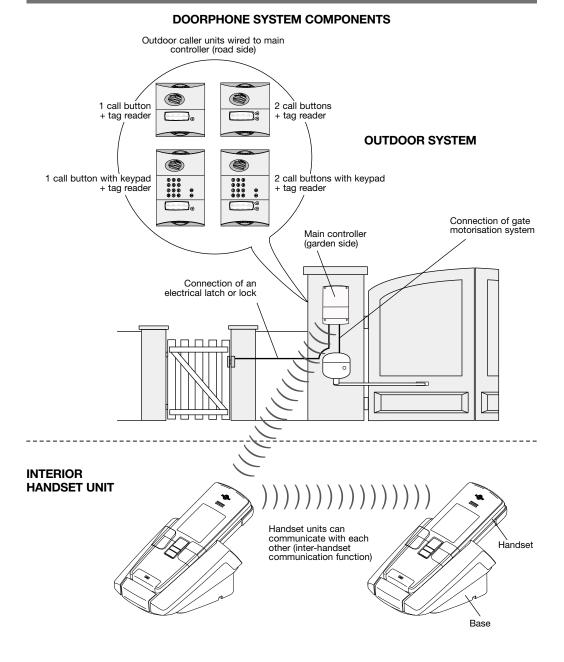
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Waste processing of electrical and electronic devices at the end of their service life (Applicable in European Union countries and other European countries with a waste collection system). Used on products or product packaging, this symbol indicates 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.



1. Introduction



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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:

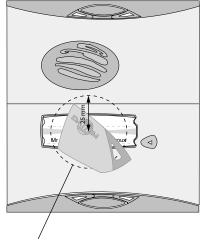
- an access code,
- a tag reader.

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.

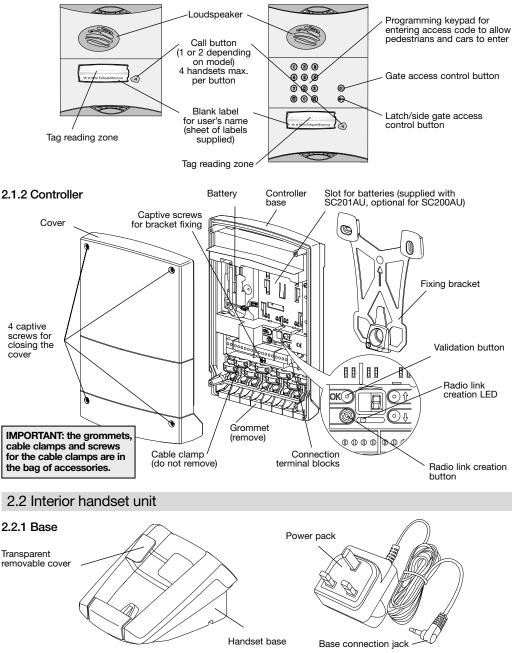


The tag is detected in this zone at a maximum distance of 20 mm.

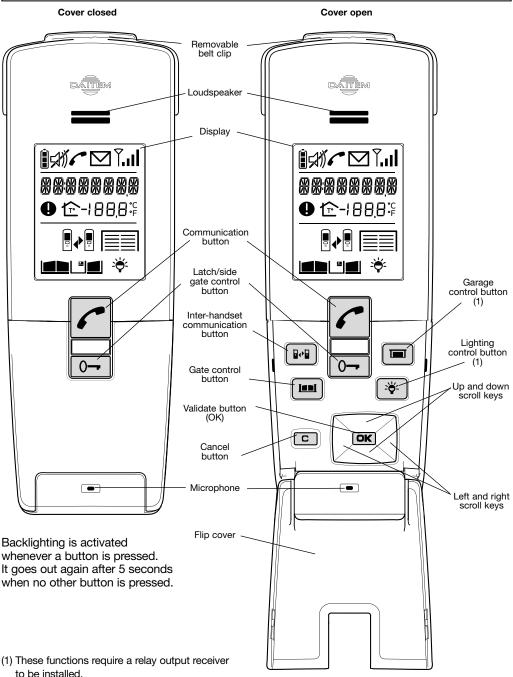


2.1 Outdoor system

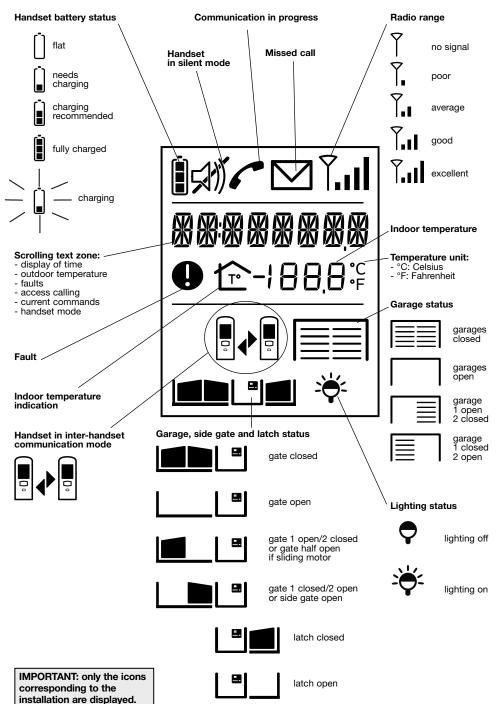
2.1.1 Outdoor caller units with armoured cover



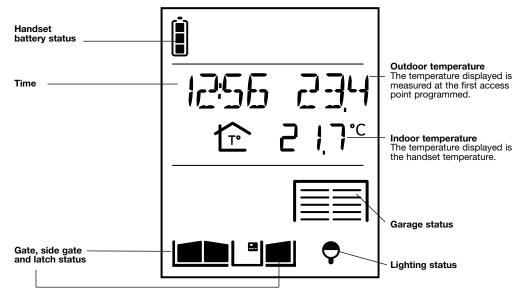
IMPORTANT: when installing the system, the handset(s) must be charged on their base before they can be used.



2.2.4 Display description

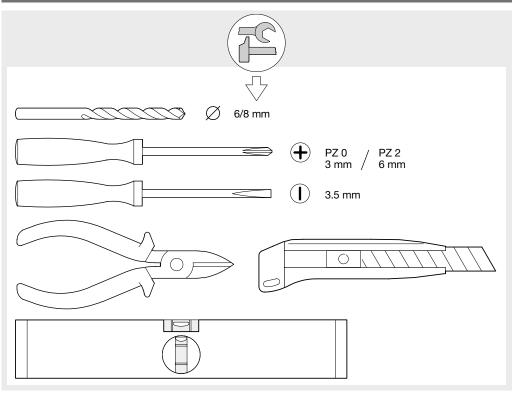


2.2.5 Handset display in standby mode (general information screen)





3. Tooling required



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:

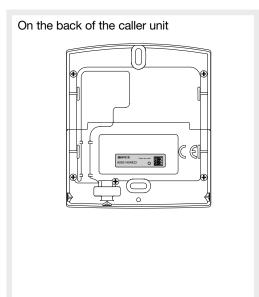
- MHU01U power pack
- SC501AX interior handset unit base
- SC501AX belt clip
- SC801AX handset flip cover

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

4. Preparation

4.1 Guarantee stickers

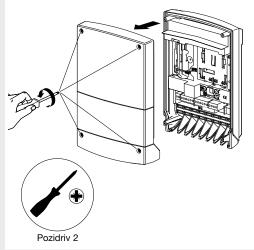
Remove the pre-cut parts of the stickers and stick these to the extension request supplied.



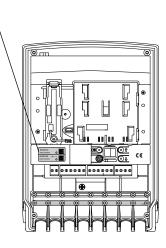


Inside the controller

1. Unscrew the 4 cover screws and open the controller.



2. Remove the pre-cut part.

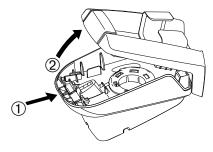




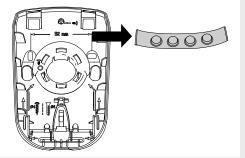
IMPORTANT: when installing the system, the handset(s) must be charged on the base before it/they can be used.

4.2.1 Handset on mains-powered base

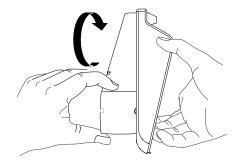
1. Open the base.

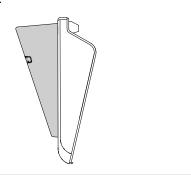


2. Remove the 4 anti-slip pads.

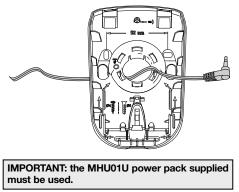


3. Rotate the back of the base until it is in "table" position.

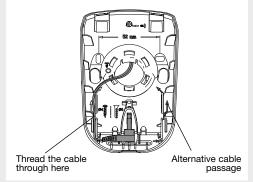




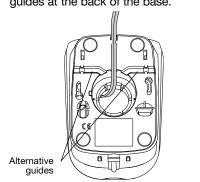
4. Thread the power pack jack through the hole.



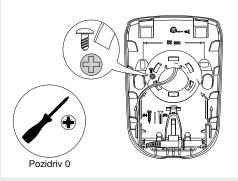
5. Connect the jack to the base making sure that the cable is positioned in the designated slot.



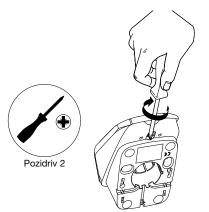
6. Thread the power cable into one of the guides at the back of the base.



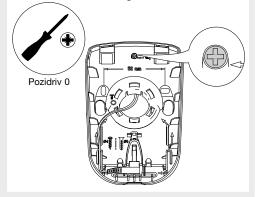
8. Screw it back into the same place hence locking the base in "table" position.



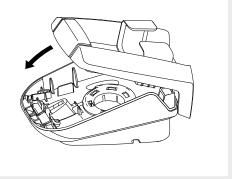
10. Tighten the locking screw to prevent the base from being opened by mistake.



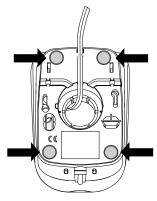
7. Unscrew the locking screw.



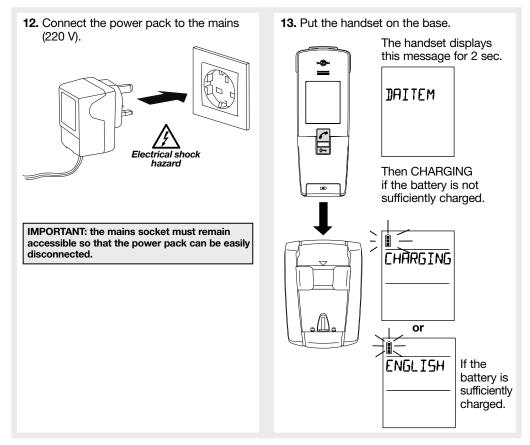
9. Close the base.



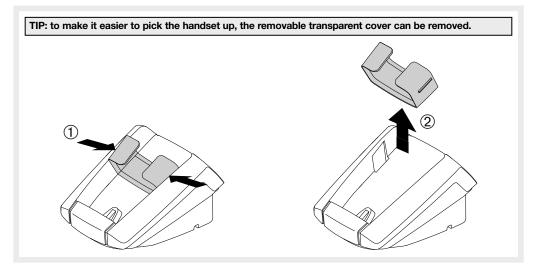
11. Stick the 4 anti-slip pads to the back of the base and then put it on the table.







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

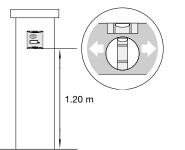


5. Installing the outdoor system

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.

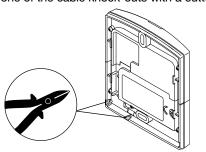


 Mark and drill the outdoor caller unit holes with a Ø 6 mm drill bit. Also mark the place where the cable feed hole has to be drilled (Ø 8 mm min. recommended).



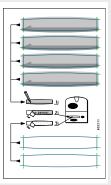
Please refer to the next chapter for mounting outdoor caller units with armoured cover. Follow steps 3 to 6 below for units without armoured cover.

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

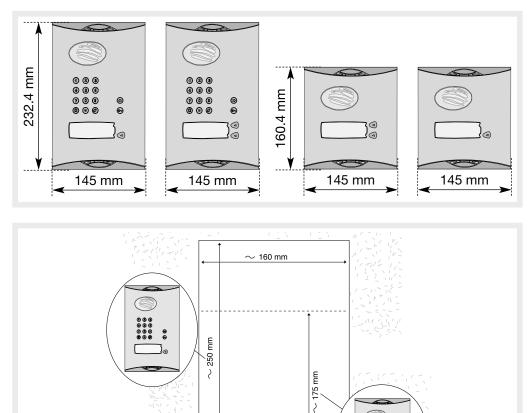


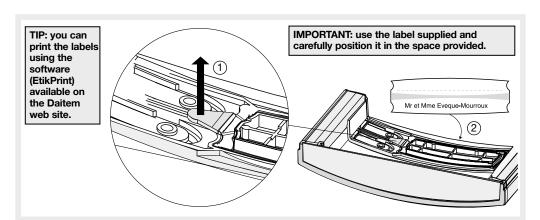
- 4. Push the screw covers out using a flat screwdriver.
- 5. Thread the cable through the hole knocked out in step 3 and screw the caller unit in place. Put the screw covers back.
- 6. Use a pencil or permanent marker to write the names. Stick a transparent protection label on top.

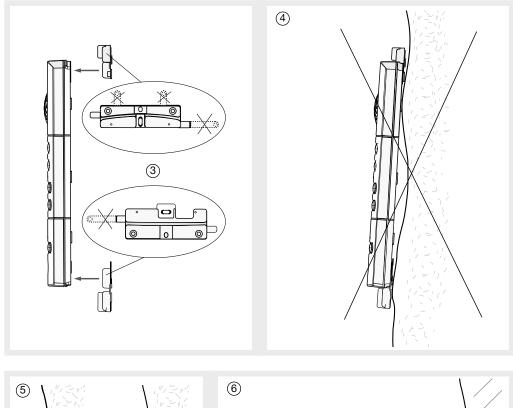
TIP: you can print the labels using the software (EtikPrint) available on the Daitem web site.

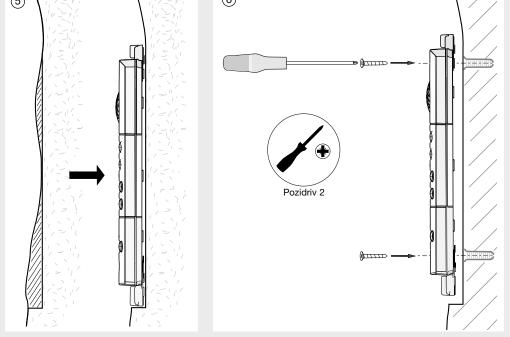


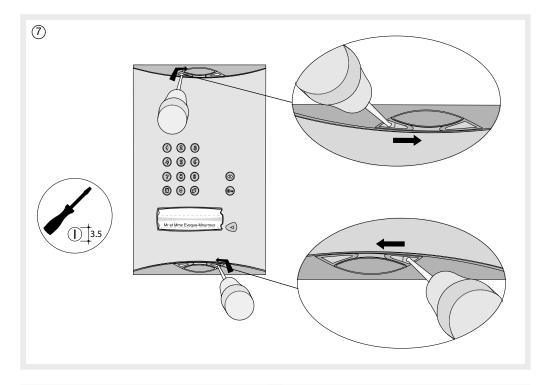
Mounting the outdoor caller units with armoured cover

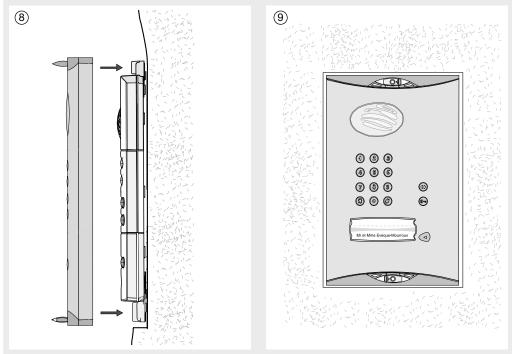


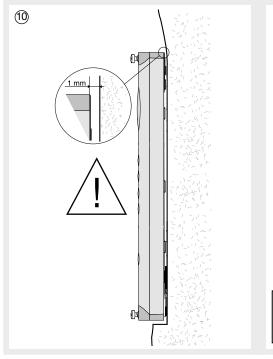


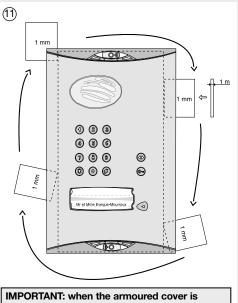




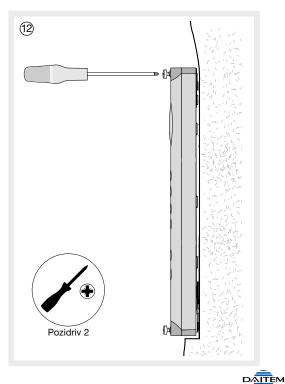






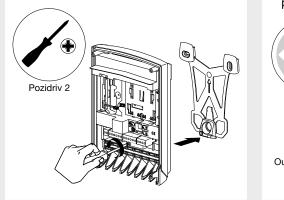


IMPORTANT: when the armoured cover is positioned on the unit, there should be a 1 mm clearance (use the shim for this purpose) between the pillar and armoured cover.

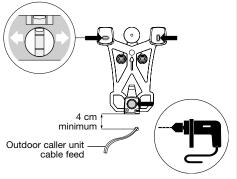


5.2 Installing the controller

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



2. 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

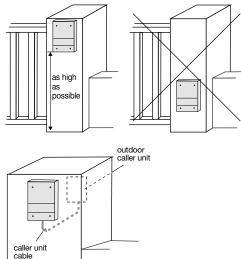
To make it easier to hook the base on to the bracket choose a flat surface (or make the surface as flat as possible) on the garden side of the pillar. This is especially important for the top part of the bracket.

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.



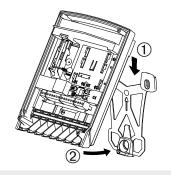
Do not place the products near metal surfaces (screens, fences, gates, etc.) or sources of electromagnetic disturbance:

• for the controller: electricity meter, high voltage line, lighting control system, radio receiver, etc.

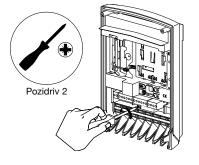
• for the handset: hi-fi equipment, video, household appliance, electricity meter or switchboard, lighting control system, etc.

• 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. Fixing without a washer Fixing without a washer Detach and dispose of unused washers Pozidriv 2 Fixing with a washer
- 4. Hook the base on to the fixing bracket.

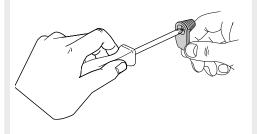


5. Lock the base in place using the locking screw.



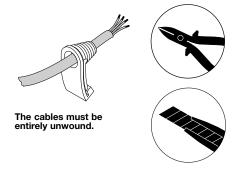
5.3 Connecting the equipment

1. 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.



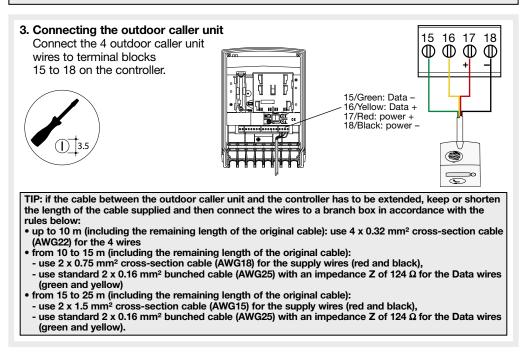
DAITEM

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.



All terminal blocks can be unplugged to facilitate wiring.

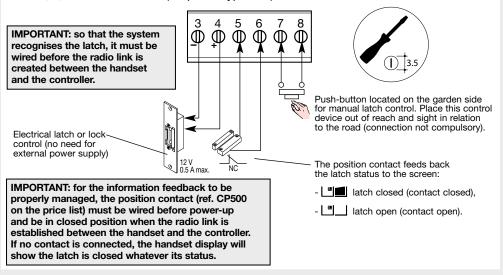
• The connections to be made are summarised on a label inside the controller cover.



4. Connecting an electrical latch

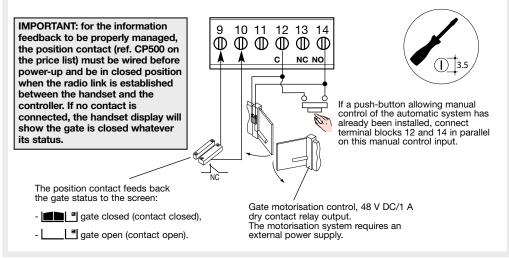
Connect the latch according to the following cable cross-sections:

- 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).



5. Connecting a gate motorisation system

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

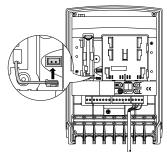




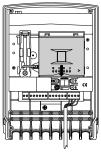
5.4 Controller power supply

- 1. Three types of power supply can be used.
- Battery

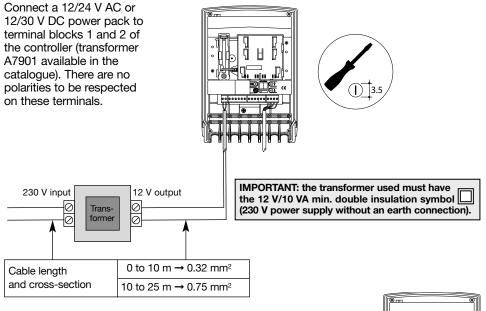
IMPORTANT: 908-21X battery must be installed for current-based applications. Connect the battery supplied to the connector.



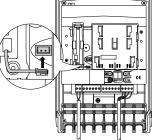
then connect the battery by positioning it on the rails and sliding it downwards.



• Transformer

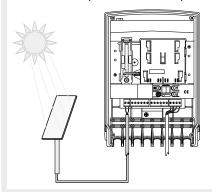


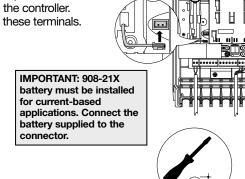
Connect the 908-21X battery supplied to its connector. It will be used in the event of a power cut.



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.



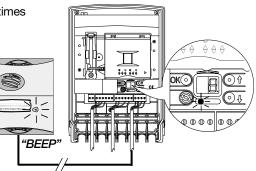


2. When powered, the outdoor caller unit lights up and beeps every 2 sec. The radio link creation LED also lights up red for 2 sec.

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.
 Pozidriv 2
 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:

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.

2. Pick up the handset, open the cover and select the desired language (1) using the following keys



then OK.

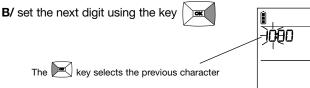
The handset beeps for 2 sec .

3. Programme the time (1):**A**/ set the first digit using the keys









C/ return to steps A and B to set the minutes and then, once the desired time has been programmed, press **DK**.

The handset beeps for 2 sec .

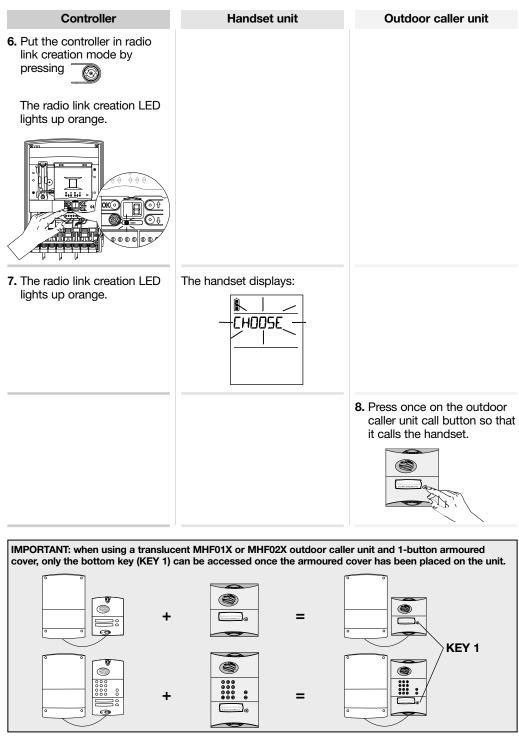
4. The handset then moves on to radio link setup mode and displays:



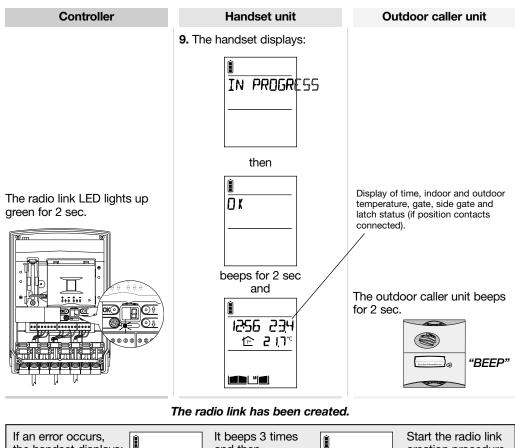


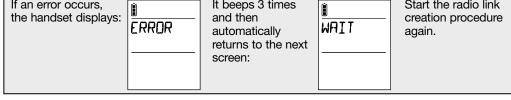
5. Pick up the handset, stand next to the controller and follow the procedure on the next page:

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

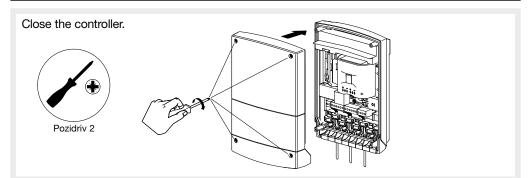


DATTEM





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
- If you have several access points: select the access point from where you would like to listen in to background sounds using the keys



3. 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.

- Image: Constraint of the second se
- 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

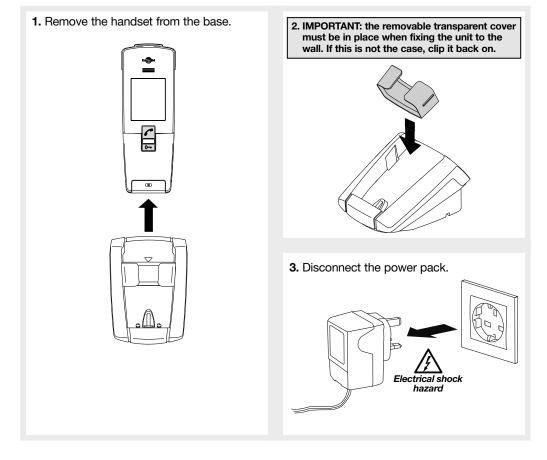
7.1 On a table

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.

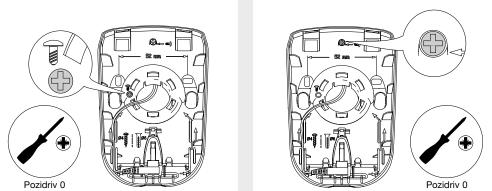
7.2.1 Handset on mains-powered base



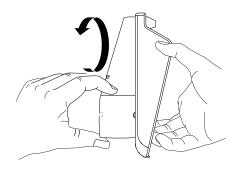
- **4.** Unscrew the base locking screw.
- Pozidriv 2

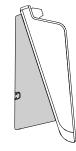
6. Unscrew the locking screw.

- 5. Open the base.
 - 7. Insert the screw here and tighten it.



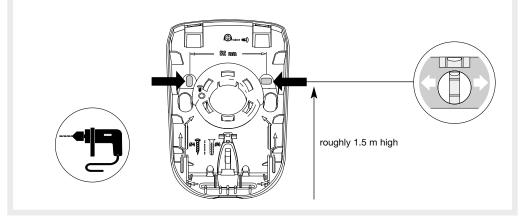
8. Rotate the back of the base until it is in wall position.



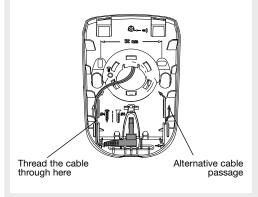




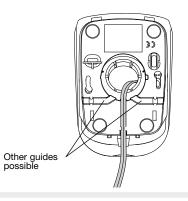
9. Mark the 2 fixing points and then make a hole using a \emptyset 6 mm drill bit.



10. Check the power pack jack is in the right position.

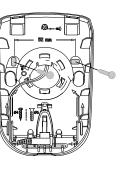


11. Feed the power cable through one of the guides on the back of the base.

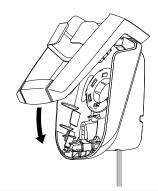


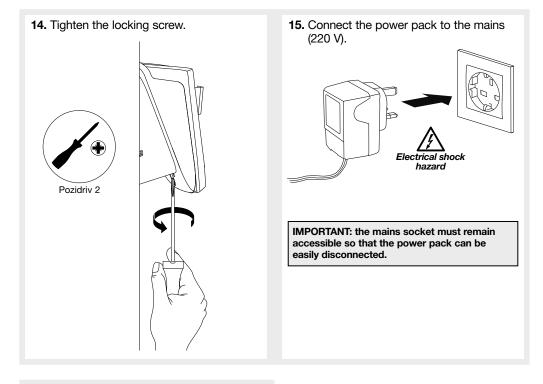
12. Fix the base to the wall using appropriate washers and screws.



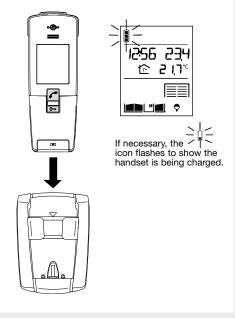


13. Close the base.





16. Place the handset on the base. The handset beeps once.





8. Testing operation

8.1 Testing communication with each interior handset unit

1. Press on the outdoor caller unit call button.

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

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

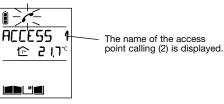
Perform the same test for all of the handsets



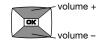
IMPORTANT

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.





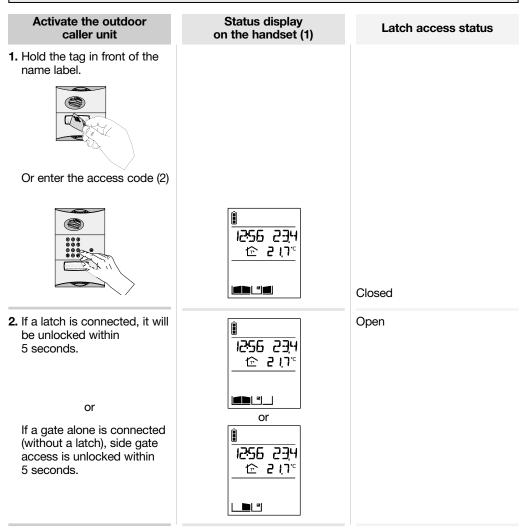




⁽¹⁾ If there is no answer, the handset rings for 20 sec. (factory setting) then stops. The duration of ringing can be adjusted (see Programming handset operating options). If the handset is on the base, it rings at the programmed volume (see Modifying handset operating options). If the handset is off 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).

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 manual/Modifying outdoor caller unit operating options).



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 (2) 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.

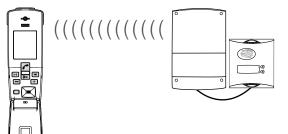
It comprises different types of products that can be classed according to their function at a given time T in the installation:

- "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.).

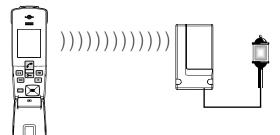
It should be noted that products may act as "Transmitters" and "Receivers".

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

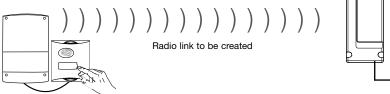
Application examples

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.



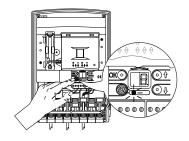
Receiver

Controller

1. Switch to radio link creation mode.



The radio link creation LED lights up orange.



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

Information available in the receiver product manual.

Receiver

4. Select the event associated with the function.

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OK()

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Using the O1, O4 keys and controller display

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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	This event is displayed when the day breaks. Useful for switching off night lighting.
6	Night falling	This event is displayed when the night falls. Useful for switching on night lighting.

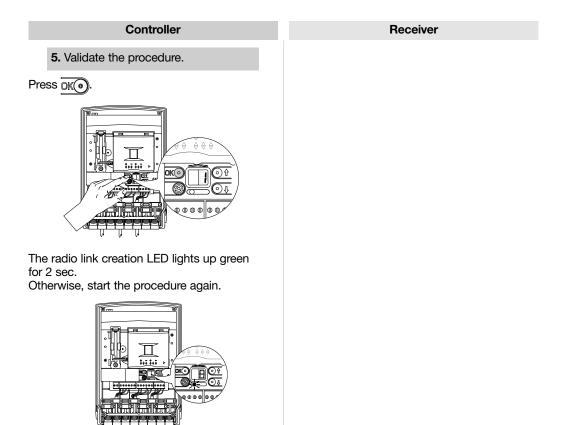
or

4. Select the key associated with the function.

Press: gate 0, latch 0, or cal 0 on the outdoor caller unit.

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





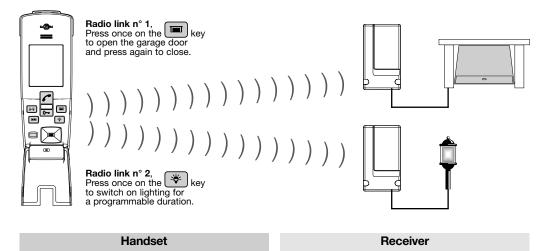


IMPORTANT: if an error occurs, the radio link LED flashes red 3 times. The radio link creation process should be performed again in this case.

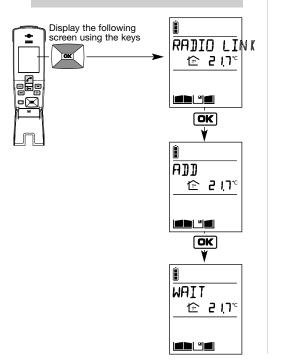
9.1.2 The handset is used as a transmitter

Application examples

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



1. Switch to radio link creation mode.



2. Switch to radio link creation mode.

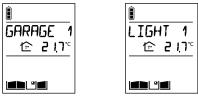
3. Select the function.

Information available in the receiver product manual.

4. Select the key associated with the function.







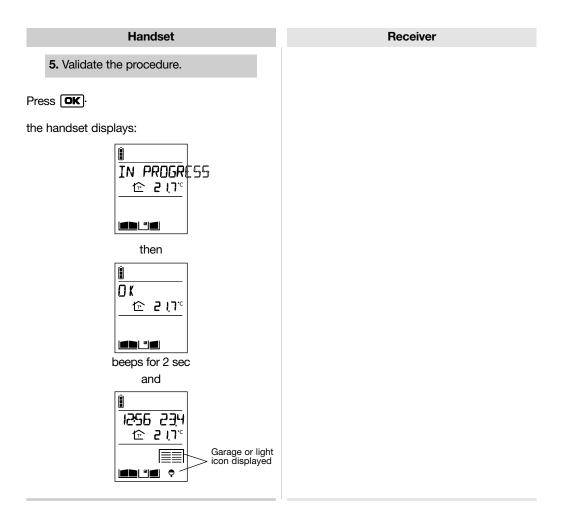
then

Select a command from the following:

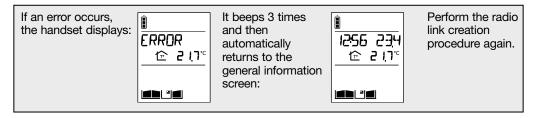
GARAGE 1	or	LIGHT 1
GARAGE 2		LIGHT 2
GARAGE 3		LIGHT 3
GARAGE 4		LIGHT 4

Using the keys





The radio link has been created.





9.1.3 The controller is used as a receiver

Transmitter	Controller	
1. Switch to radio link creation mod	le.	
Information available in the transmitte product manual.	er	
	2. Switch to radio link creation mode.	
	Press	
	The radio link creation LED lights up orange.	
	3. Select the function.	
	Using the ऒ., ऒ 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.	

Triggers the controller latch.

3

Latch

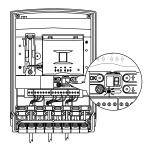
Transmitter

- 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.

Controller



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.



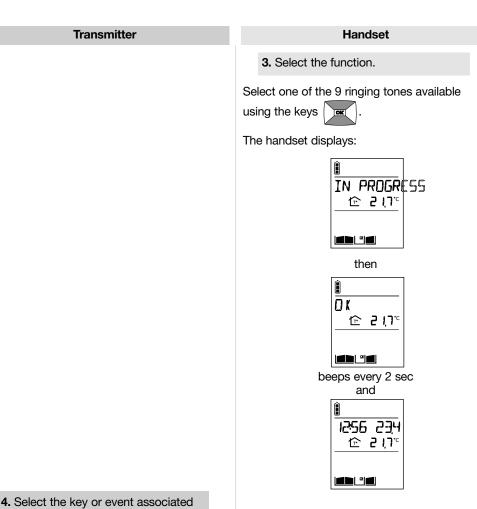
9.1.4 The handset is used as a receiver

Transmitter Handset 1. Switch to radio link creation mode. Information available in the transmitter product manual. 2. Switch to radio link creation mode. İ Display the following screen using the keys ŧ RADIO LINK OK Ê 217° OK) ₩ İ

ADD

CHOOSE < ☆ 2 1

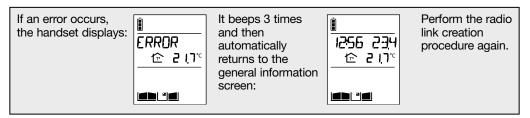
Ê 217°



- with the function.
- **5.** Validate the procedure.

Information available in the transmitter product manual.

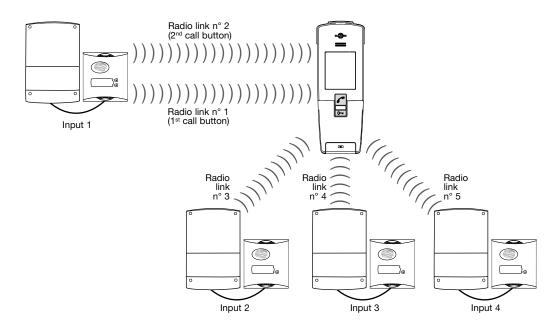
The radio link has been created.



9.1.5 Specific cases

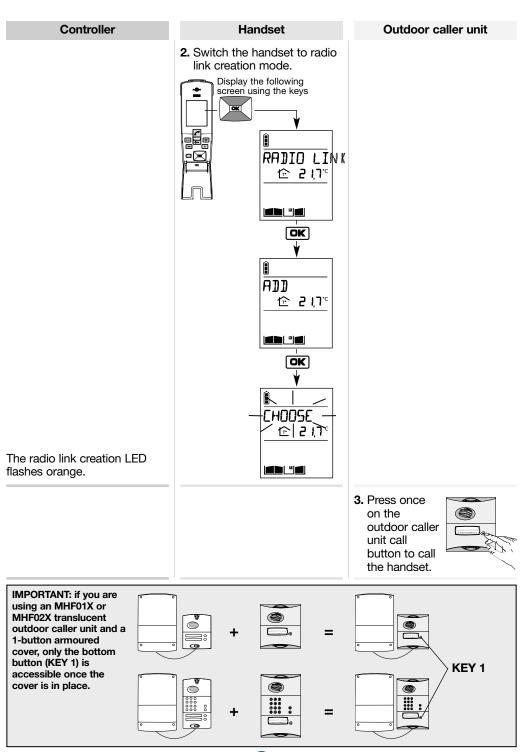
• Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons.

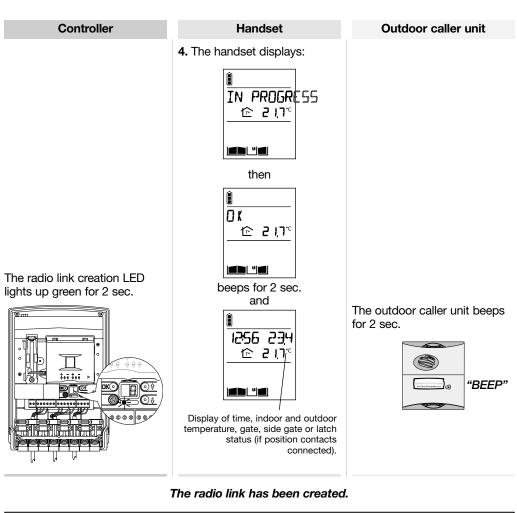
A handset can be associated with 4 different inputs. By creating a radio link between the handset and the controller (see chapter on Installing the doorphone), you have created radio link n° 1 (e.g. handset programmed for the 1st call button and input 1).

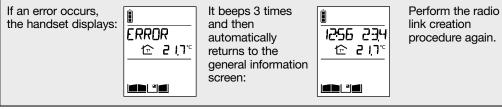


To create radio links n° 2, n° 3, n° 4 and n° 5, follow the procedure below:

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



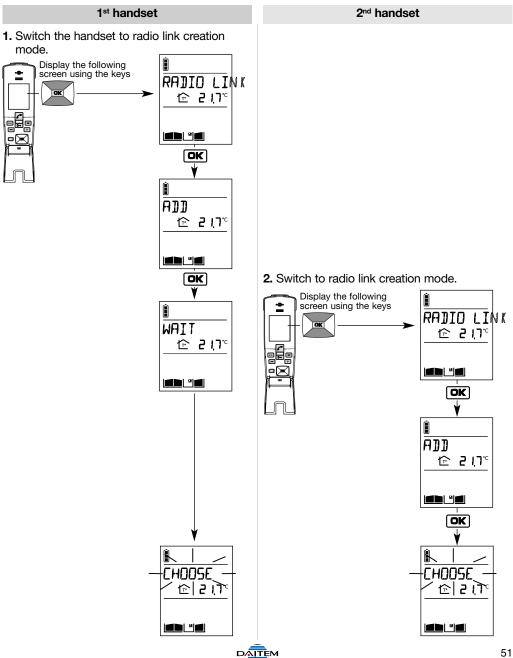


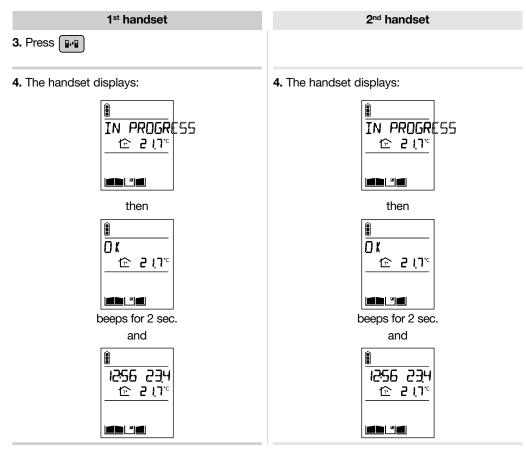


· Creating a radio link between several handsets

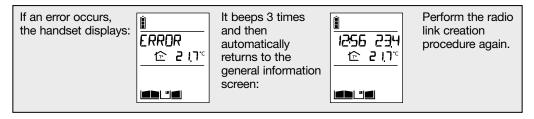
IMPORTANT: each handset can be linked via radio with a maximum of 7 other handsets.

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:





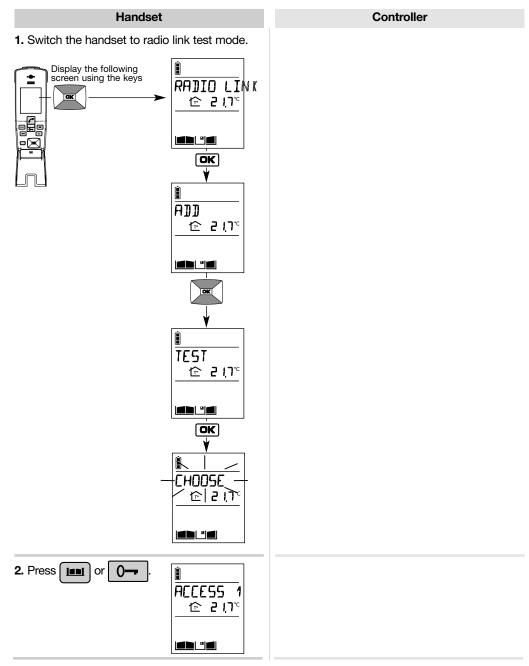
The radio link has been created.



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:

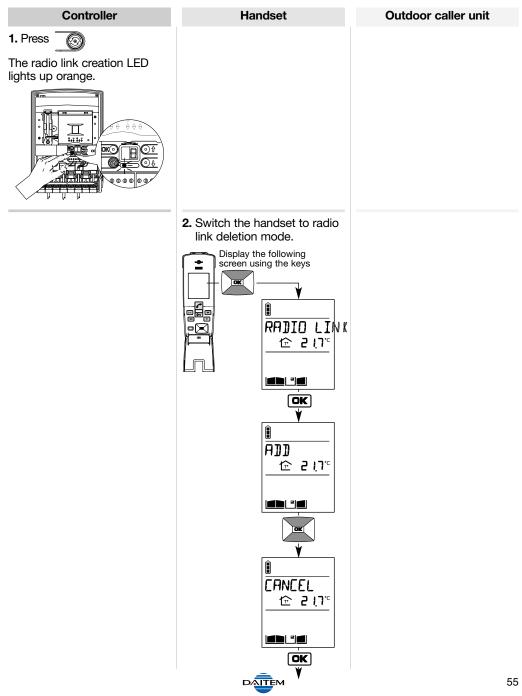


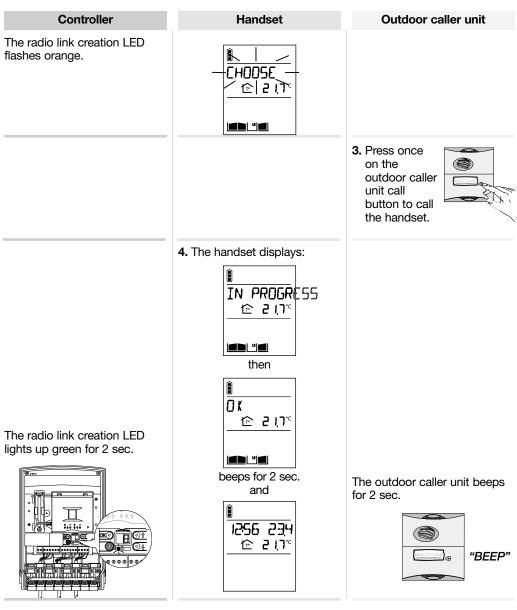
Handset	Control	ler
3. Select the controller to be tested using the keys		
4. Press again on	The controller screen displ	ays "1".
		The wey is linked via radio to the controller gate output.
or 0 .	The controller screen displ	ays "2".
		The O
	The controller screen displ	ays "3".
		The O
	5. Press twice on	
	The controller beeps 3 time goes out.	es and the display
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

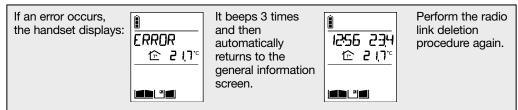
9.3.1 Deleting a radio link between a controller and a handset

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





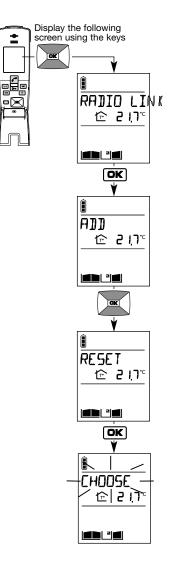
The radio link has been deleted.



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.

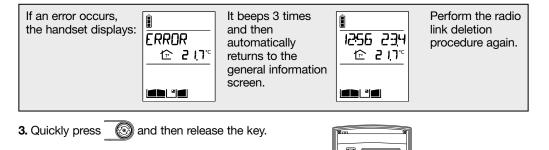




2. Press and hold OK until the screen displays OK

The handset displays:





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.

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.

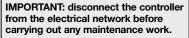
Dispose of flat batteries in the appropriate waste disposal containers.



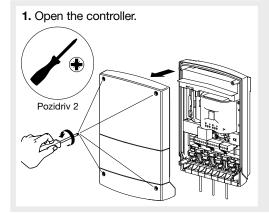
10.1 In the controller

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

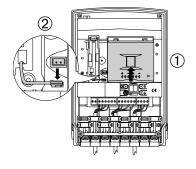




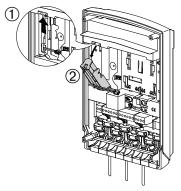




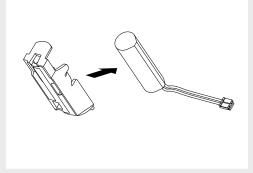
2. Remove the MPU01X battery and then disconnect the other battery.



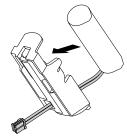
3. Remove the battery enclosure.



4. Remove the flat battery from its box.

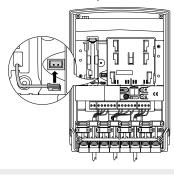


5. Replace it with a new one (ref. 908-21X) making sure to thread the connector through the hole in the enclosure.

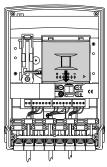


6. Reposition the battery enclosure in the controller.

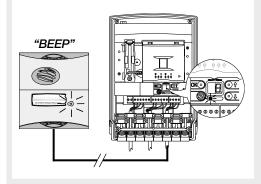
7. Reconnect the battery.



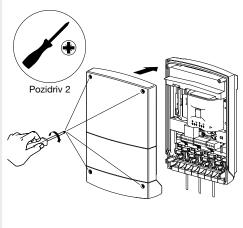
8. Connect a new MPU01X battery.



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.

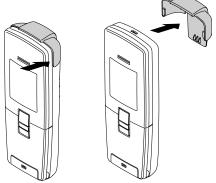


No reprogramming is required after the batteries have been changed.

10.2 In the handset

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

1. Take the handset off its base and remove the belt clip by pressing on one of its sides.



3. Replace the flat MTU01X battery with a new once.



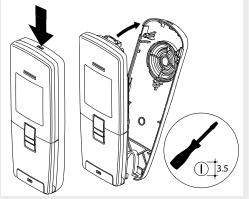
5. Programme the time using



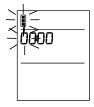
The temperature display will be updated several minutes after the handset has been powered.

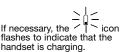


2. Insert a flat screwdriver into the slot and press to open the handset.



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.





11. Questions - Answers

Questions	Answers
Why can conversation be "broken" when using the handset?	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.
What causes the interference (Larsen effect, crackling, etc.) that can be heard in the handset?	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.
Why does the reception quality vary when I move around with the handset?	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.
What should I do if I lose the display on my handset?	Simply recharge the handset on its base. The time must be reprogrammed (HANDSET/SETTINGS/TIME menu)
What should I do if the handset does not beep and display $\geq \leq \leq $ when I put it back on its base?	Check the mains power supply.
Can I clean my doorphone?	Use soapy water and a soft cloth to clean products whenever necessary. Do not use alcohol or acetone to clean them.
What should I do if the handset does not ring during a communication test?	 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 (↔) icon displayed).
How should I go about changing controller connections when it has already been operating for several weeks (e.g. to connect a latch?)	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 Appendices/Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons).

Questions	Answers
Why does the handset not display the status of the motorisation system connected?	 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 Appendices/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 wiring and check for any short-circuits between terminal 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 issue 3 error beeps when a tag is held up to it?	The tag has not been registered (see Programming doorphone operating functions).
Why is the "BATTERY ACCESS X" message displayed?	Change the controller batteries (see Appendices/Changing the batteries). It is advisable to change the handset battery at the same time.
Why is the "CHARGE HANDSET" message displayed?	Put the handset on the base to charge it.
Why is the "MEMORY FULL" message displayed when a radio link is created?	The handset's memory capacity has been reached. Delete some of the radio links (see Appendices/Specific cases/Creating a radio link between several handsets).
Why is communication with another handset impossible?	Check there is a radio link between the handsets (see Appendices/Specific cases/Creating a radio link between several handsets).
What does the 🖂 icon displayed on the handset mean?	A visitor came to the outdoor caller unit while you were out. To delete the icon, press on a handset button.
How can I change the access code, e.g. from 4 to 6 digits?	 Delete all the programmed codes (ACCESS/CODES/DELETE menu) Modify the size of the access codes (ACCESS/CODES/SIZE menu) Reprogramme all the codes (ACCESS/CODES/ADD menu)
What should I do if I cannot operate the latch?	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 Appendices/Deleting radio links and then Creating a radio link between a handset and several controllers or several outdoor caller unit call buttons).



General data

- Failsafe multi-frequency radio technology with a free field (1) range of up to 400 m, according to environmental and installation conditions
- 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.
- 5-year battery life (with MPU01X battery) (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 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.

