

VELUX®

VSE/VCE

KLR 100



User manual

ENGLISH



VAS 452672-2011-06

Congratulations on your new VELUX product

In order to make the best use of your product please read these instructions on operation and maintenance.

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Important information / Warnings

Please keep instructions for future reference and hand them over to any new user.

Safety

- Before operating ensure that the skylight with electrical products can be operated without risk of damage to property or injury to people or animals.
- For personal safety, never have head, hand, arm or any other body part out of or through the opening of the skylight without first having switched off main power supply.
- Children must not be allowed to play with the skylight and its electrical products. The remote control should be kept out of reach of children. Do not allow children near an open skylight.
- This device is intended for use by persons with the relative experience and knowledge and who have been given instruction concerning use of the device by a person responsible for their safety.
- If repair or adjustment work is needed, disconnect from main power supply and ensure that it cannot be reconnected unintentionally.
- The main power supply cable is for indoor use only.
- It is recommended that a remote control be placed in the room where the skylight and its electrical products have been installed.
- If the skylight is positioned within reach, the opening of the skylight operator must be adjusted to reduce the maximum size of the opening (see section *Adjusting the maximum opening*). Failure to make such adjustment can result in serious injury or death.
- Make sure that the insect screen is installed before putting the skylight into use.
- FCC ID: XSG863829 and IC ID: 8642A-863829: Remote control
Certificate of Radio Equipment in Japan: No. 10215191/AA/00
FCC ID: XSG863765 and IC ID: 8642A-863765: Window operator (skylight operator)

This device complies with part 15 of the FCC and RSS-210 of the IC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

- FCC Radiation Exposure Statement: This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment
- The term "IC:" before the device certification number only signifies that the Industry Canada technical specifications were met.

Function

- If the rain sensor gets wet, the skylight automatically closes.
- Disabling the rain sensor while the skylight is open creates a risk of water to the interior of the building.
- To prevent the skylight from closing because of very fine/weak rain, fog or dew, the rain sensor is equipped with a heating element to keep the surface dry.
- If the rain sensor is activated, the skylight will close within approximately 30 seconds. If the skylight is activated with the remote control or another activation control, it will take up to one minute until the skylight is completely closed. Therefore, in case of sudden rain, water may enter the room before the skylight is closed.
- In case of snow and/or ice, the operation of the skylight may be blocked resulting in damage to the skylight.

Important information / Warnings

Product

- This product has been designed for use with genuine VELUX products. Connection to or use with other products may cause damage, malfunction or injury.
- Electrical products must be disposed of in conformity with all local codes, ordinances, rules and regulations for electronic waste and not with household waste.
- Used remote control batteries have to be disposed of in conformity with the relevant environmental regulations and ordinances.
- Expected lifetime of the remote control battery: Approx 1 year.
- The packaging can be disposed of with usual household waste.
- Radio frequency band: 2.4 GHz.
- Radio frequency range: 110 yards (100 m) free field. Depending on building construction, the indoor range is approx 30 ft (10 m). However, constructions with reinforced concrete, metal ceilings and plaster walls with steel members may reduce the range.

Maintenance and service

- Disconnect from main power supply before carrying out any maintenance, repair, adjustment or service work to the skylight or products connected to it (including battery backup KLB 100, if installed) and ensure that it cannot be reconnected unintentionally during this time.
- Maintenance and installation must be carried out in consideration to Health and Safety at work requirements.
- If main power supply cable is damaged, it must be replaced by a qualified electrical installer in accordance with all local codes, ordinances, rules and regulations.
- There are no serviceable parts inside the skylight operator.
- Spare parts are available through your VELUX sales company. Please provide information from the data plate.
- If you have any technical questions, please contact your VELUX sales company, see telephone list or www.velux.com.

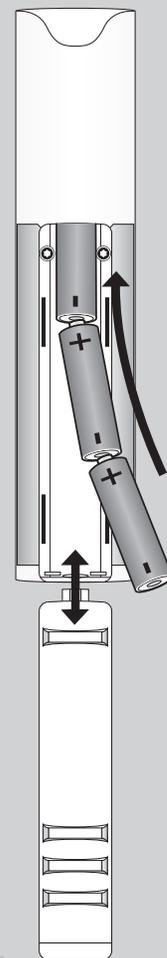
Initial set-up

Products to be operated with the remote control must be registered in the remote control. Registration, however, depends on whether the remote control is new or whether it is already used for operating other products.

- 1
 - If the remote control is already in operation, proceed with section *Registering new products*.
 - If the remote control is new, proceed as follows.

When the initial set-up has been completed, the registered products will appear in the display.

- 2 Slide off the battery cover of remote control as shown. Insert the three batteries supplied (type AA, 1.5 volt). Replace cover.

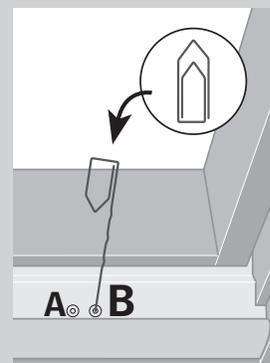


- 3 Choose language:
Press  to highlight your language.
Press  "Enter" to confirm your choice.



- 4 Prepare products for registration in one of the two following ways:
 - Disconnect the main power supply to the products for 1 minute and then reconnect it.
 - Press the button closest to the side frame of the skylight (**B**) once.

The products must now be registered in the remote control within the next 10 minutes.



5 Press  "Register" to start registration.



6 Registration is running. This can take up to two minutes.

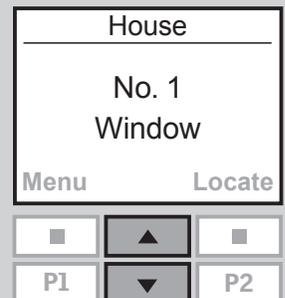


7 The display shows "Completed" when all products have been registered.

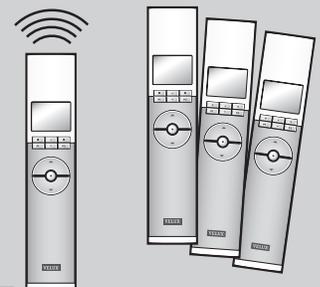
Note: If the display shows "Failed", remove the batteries from the remote control. Prepare the products for registration, see section *Resetting and preparing for registration*. Repeat the initial set-up.



8 The display shows one of the registered products. Press  to see the other registered products.



For use of more than one remote control, all products must be registered in one of the remote controls, see above. Then the information must be copied from this remote control to the other remote controls, see section *Using additional activation controls*.



Note: The opening of the skylight operator must be adjusted if your skylight is positioned within reach, see section *Adjusting the maximum opening*.

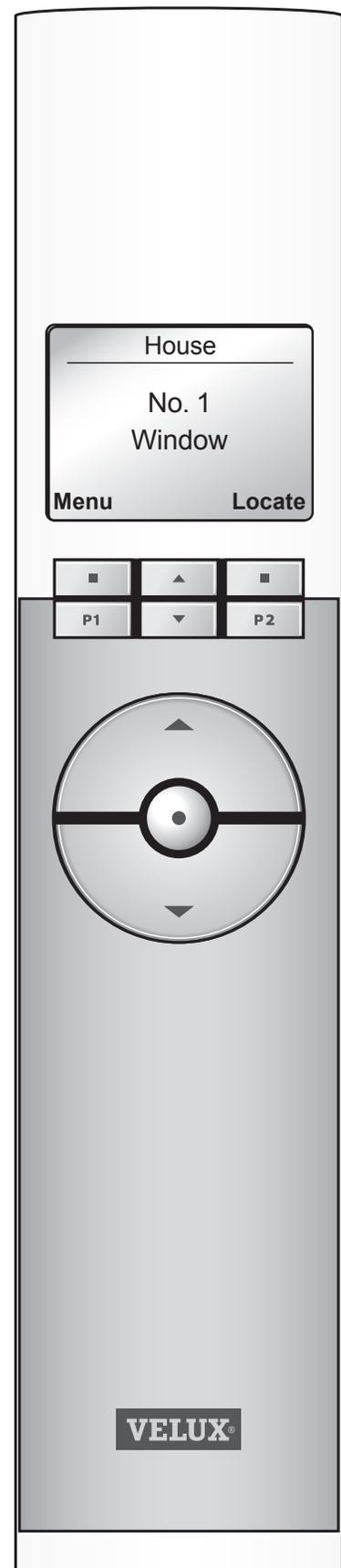
Remote control functions

The display indicates which product is being operated, which menu function is being used etc. The top line of the display states the chosen area. Products are as default shown under the area House. The bottom line of the display states the function of the two selection keys.

Note: The display shows the last product operated. The word "Window" is used for both windows and skylights.

Selection, navigation and program keys

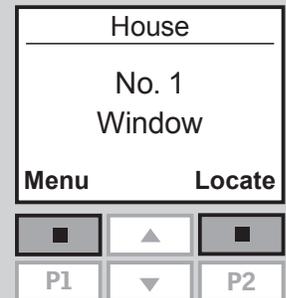
Keys for operating the product chosen



Selection keys

- for **activating** the menu and **confirming** the chosen menu function.
- for **locating** the Room, the Group, the Zone or the product to be operated.

The current function of the individual selection key is stated directly above in the display.



Navigation keys

- for **scrolling** up and down in the product or menu list.
- for **scrolling** through the time intervals to set the remote control to close the skylight automatically.



Shortcut keys P1/P2

- for **activating** a program by pressing just one key.



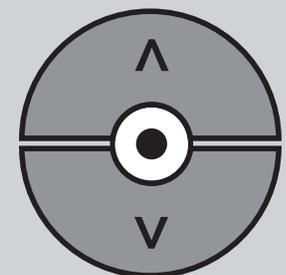
Keys for operating a product or a Group of products

 OPEN/UP or  CLOSE/DOWN

Short key pressure: Product will travel to maximum top or bottom position.

Long key pressure: Product will travel to pre-set position.

See section *Choosing positions*.

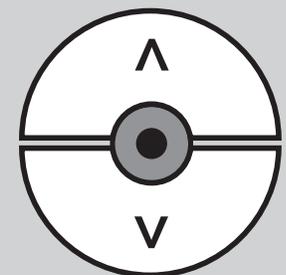


Stop and status key

 STOP / STATUS

Short key pressure: The product in operation stops or the status is shown.

Long key pressure: All products in operation stop.



Locating and operating a product

To be able to operate a product (eg a roller shade), you first have to locate the product in question in the display.

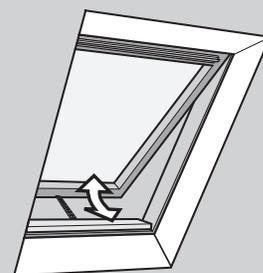
The examples show the easiest way to find the product you want to operate.

One skylight

With one electrical product

The skylight (indicated as "Window" in the remote display) is equipped with a skylight operator only and therefore you do not have to locate the product first.

Press  to start operation.



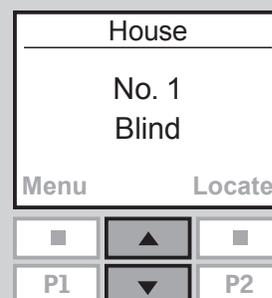
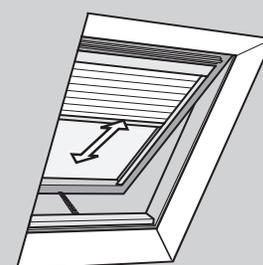
With more than one electrical product

The skylight is equipped with a skylight operator and a roller shade.

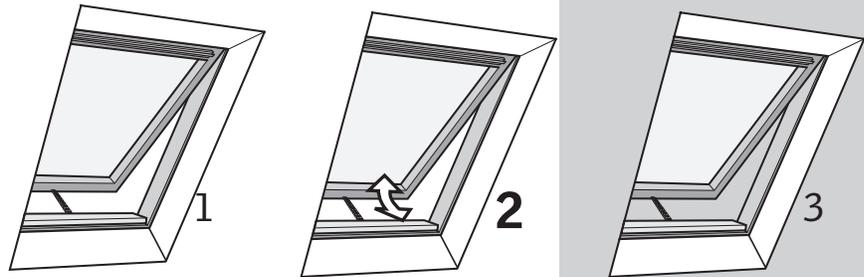
The example shows how to locate and operate the roller shade.

Press  to find the roller shade (indicated as "Blind").

Press  to start operation.



More than one skylight



With one electrical product

Three skylights are equipped with skylight operators only. The example shows how to locate and open skylight No. 2.

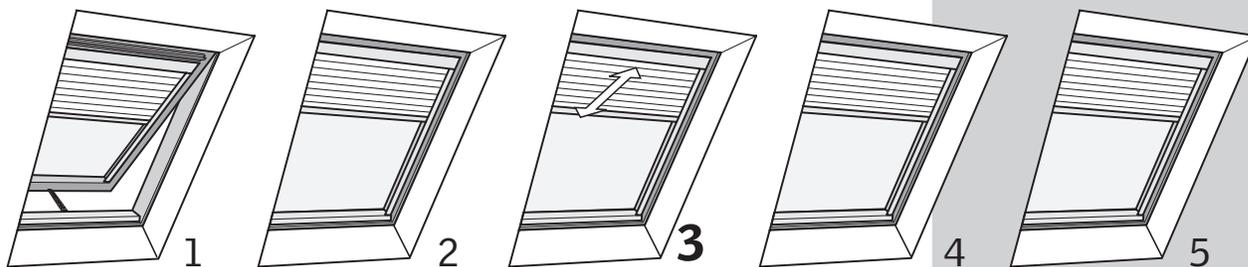
Press  to find skylight No. 2 (indicated as "Window").

Press  to open the skylight.



Note: You can rearrange the order of the individual products, Groups, Rooms and Zones displayed, see section *Rearranging order*.

More than one skylight

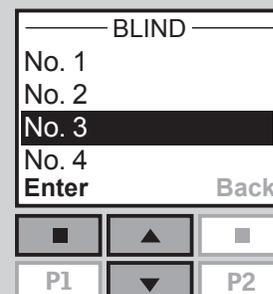


With more than one electrical product

One skylight is equipped with a skylight operator. In addition, all five skylights are each equipped with a roller shade.

The example shows how to locate and operate roller shade No. 3 (indicated as "Blind").

- 1 Press  "Locate".
- 2 Displays the list of product types within the area House. To operate one of the roller shades, press  and highlight "Blind". Press  "Enter".
- 3 Press  to highlight roller shade "No. 3". Press  "Enter".
- 4 Press  to start operation.



Choosing positions

A product or a Group of products can be set to travel to a certain position.

The example shows how to set a roller shade to close by 50%.

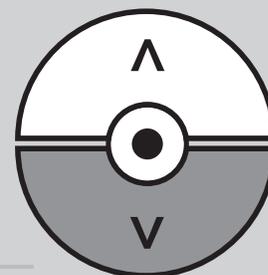
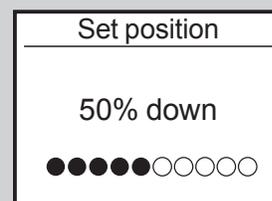
1 Locate the product in question, see section *Locating and operating a product*.

2 Product chosen is displayed. The example shows roller shade No. 2 (indicated as "Blind").

3 Press and hold key  and watch the display. Each black spot corresponds to the roller shade closing in 10% increments. Five black spots thus correspond to it closing by 50%.
Release key  and the roller shade will travel to the position chosen.

Note: A short key pressure will make the roller shade travel to maximum top or bottom position.

Some decoration and sunscreening products can be operated in two ways. For instance, a Venetian blind can be drawn up and down and its slats can be tilted. Once the product has been located, choose Tilt  or Turn  with the navigation keys .

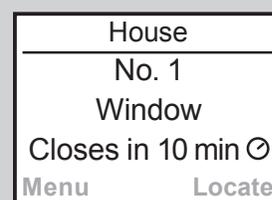
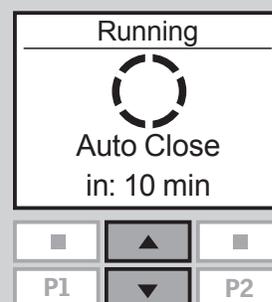
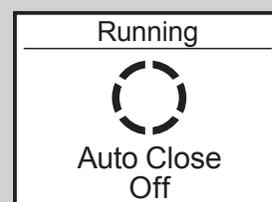


Closing the skylight automatically

When a skylight has been opened with the remote control, you can set it to close again automatically after a certain time. For instance you might want to air your house briefly when returning home. The possible settings are: Off, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min and 60 min.

The example shows how to time skylight No. 1 (indicated as "Window" in the remote display) to close after 10 minutes.

- 1 Locate skylight No. 1 (indicated as "Window"). Press  to open the skylight.
- 2 The display shows the icon  and the text "Auto Close". Start item 3 within 5 seconds, otherwise the skylight will not close automatically.
- 3 Scroll via  through the time options and choose "in: 10 min".
- 4 The display shows the icon  and counts down until the skylight is closed.



If you close the skylight earlier than chosen, the function will be cancelled.

Note: Registered products can be set to operate automatically via menu item Program settings.

Disabling rain sensor

If the rain sensor gets wet, the skylight operator automatically closes the skylight within 30 seconds.

If you want to open the skylight even if it is raining, you must disable the rain sensor. When the rain sensor is disabled, the skylight can only open up to 50% of its normal opening distance and the rain sensor will be disabled for 60 minutes.

The example shows how to open skylight No. 1 (indicated as "Window" in the remote display) even if it is raining.

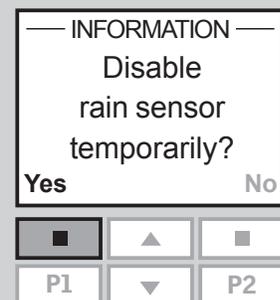
- 1 Locate skylight No. 1 (indicated as "Window").
Press  to open the skylight.



- 2 The display shows that the operation cannot be executed because the skylight operator has been limited by the rain sensor.



- 3 The display asks whether to disable the rain sensor temporarily.
Press  "Yes" to disable the rain sensor temporarily.



- 4 The skylight is opened and the rain sensor is now disabled for the next 60 minutes.

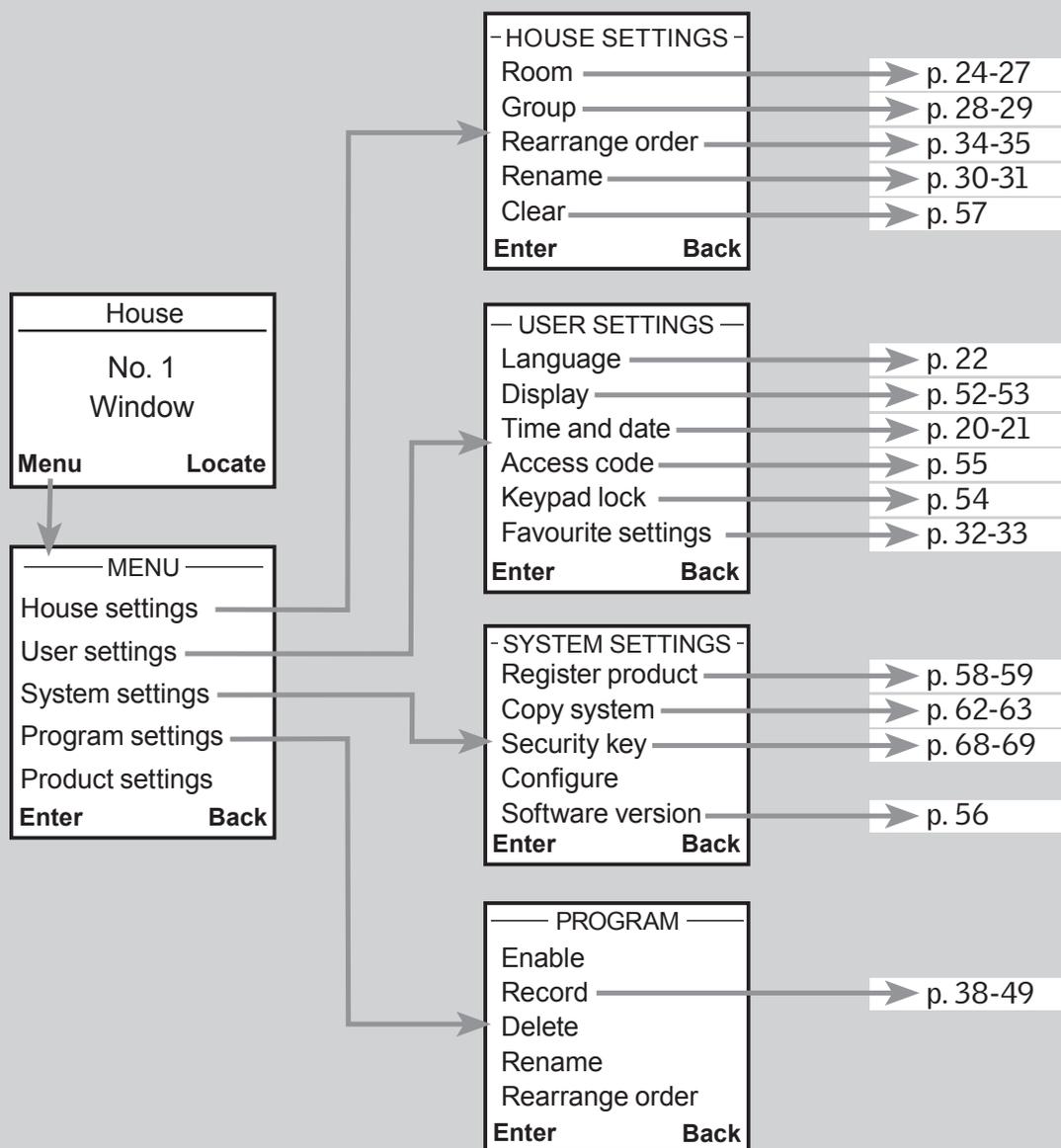


Note: You can combine disabling the rain sensor with "Auto-Close", see section *Closing the skylight automatically*, and in this way choose to disable the rain sensor for a shorter period than 60 minutes.

Menu guide

Guide to the menu functions of the remote control.

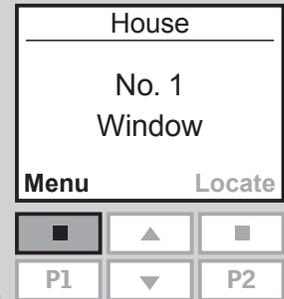
Additional information about the individual function is provided in the relevant section.



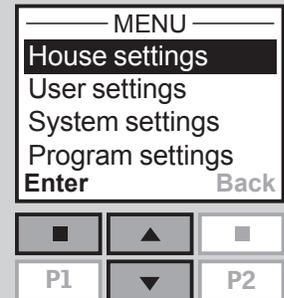
Navigating through the menus

The example shows how to find the menu item Room by means of menu choices.

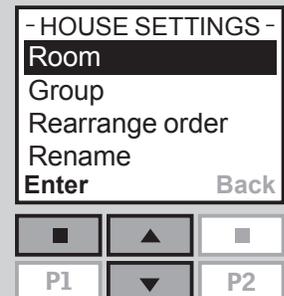
1 Press  "Menu".



2 Displays a list of menu items under Menu.
Press  to highlight "House settings".
Press  "Enter" to confirm your choice.



3 Displays a list of menu items under House settings.
Press  to highlight "Room".
Press  "Enter" to confirm your choice.
You can now proceed with the menu functions under menu item Room.



This way of choosing menu items is shown as follows in the rest of the instructions:

1 Press  "Menu".



2 Scroll through the menus:



Time and date

Time and date must be set the first time the remote control is to be used as correct settings are required for remote programming functions. Time must be changed manually at the start and end of Daylight Saving Time. The time and date format can be set in item 5 by choosing "Set format".

The example shows how to set the time. The date is set correspondingly by choosing "Date" in item 4.

1 Press  "Menu".

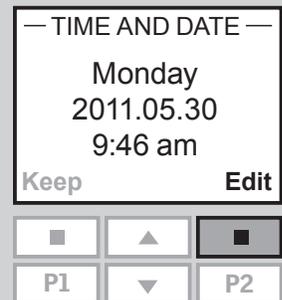


2 Scroll through the menus:

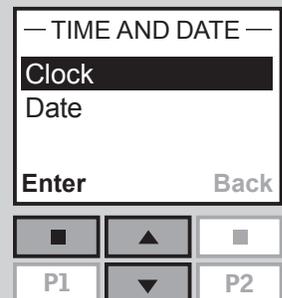


3 The display shows day, date and time.

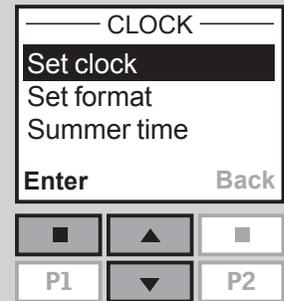
- Press  "Keep" to confirm the setting.
- Press  "Edit" to change day, date or time.



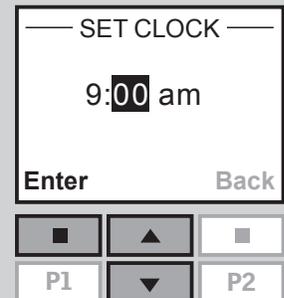
4 Press  to highlight "Clock".
Press  "Enter" to confirm your choice.



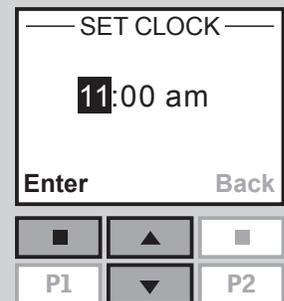
- 5 Press  to highlight "Set clock".
Press  "Enter" to confirm your choice.



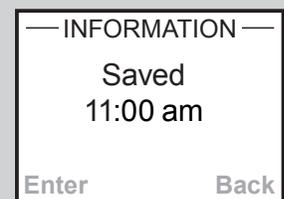
- 6 Press  to set minutes.
Press  "Enter" to change to hours.



- 7 Press  to set hours.
Press  "Enter" to confirm your settings.



- 8 The display shows that the new time has been saved.



Time is shown automatically when the remote control is in sleep mode. See section *Display*.

Changing language

You can change the display text language.

The example shows how to change it into French.

1 Press  "Menu".



2 Scroll through the menus:



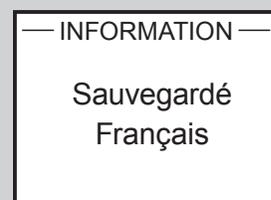
3 The display shows a list of languages. The current language has been ticked.



4 Press  to highlight a new language. Press  "Enter" to confirm your choice.



5 The display shows that the change has been saved.



Room, Group and Zone

To make it easier to locate and operate the products it is recommended to link each product to a Room and/or a Group. Products are as default shown under the area House.

Definition of Room

A Room consists of one or more products of any type located in the same physical room, eg bedroom or kitchen. A product can be assigned to one Room only.

Definition of Group

A Group consists of at least two products of the same type (eg two roller shades).

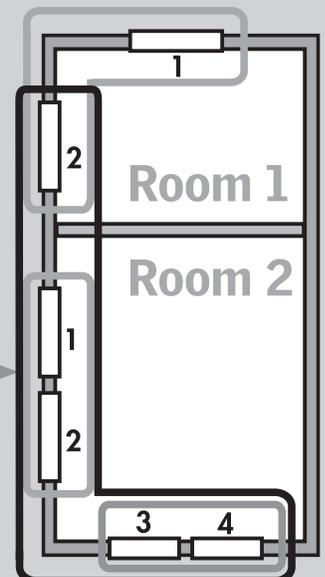
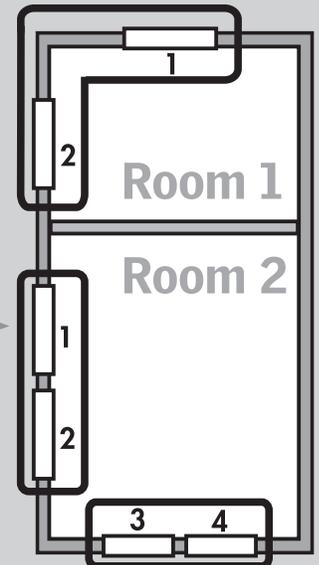
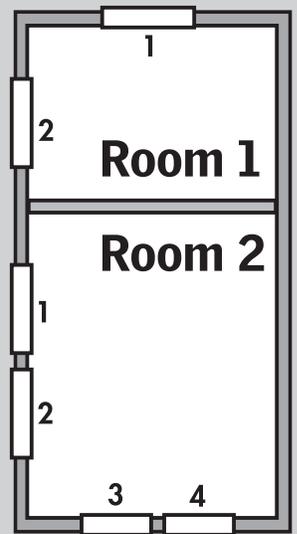
In each Room, a Group "All" with all products of the same type is automatically created to make it easier to locate and operate products of the same type simultaneously.

Groups created across more Rooms are called Zones.

Definition of Zone

A Group created across more Rooms.

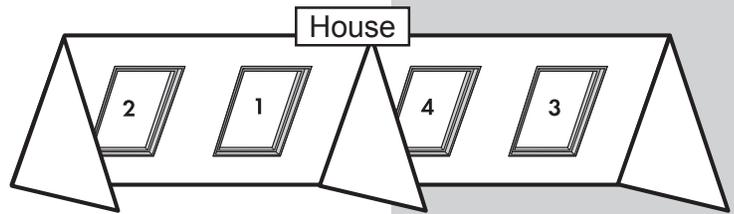
You can create a Zone consisting of for instance all roller shades on the skylights of the house facing west and south.



Creating a Room

Rooms are created to make it easier to locate and operate your products.

The example shows two rooms with two skylights (indicated as "Window" in the remote display) in each. Below it is shown how to create Room 1 by moving the relevant products from House to Room 1.



1 Press  "Menu".



2 Scroll through the menus:



3 Displays the areas, here the area House.

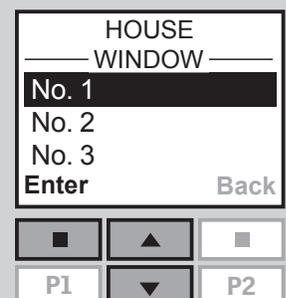
Press  to highlight the area with the product to be assigned to Room 1 first.

Press  "Enter" to confirm your choice.



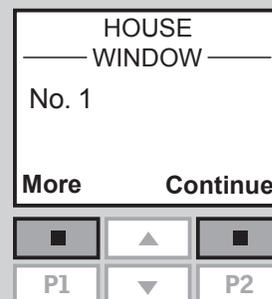
4 Displays a list of all products in House. The product type, in this case skylights (indicated as "Window"), appears in the display. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  to highlight the product to be moved to Room 1. Press  "Enter" to confirm your choice.



5 Displays the product chosen.

- Press  "More" to move additional products to Room 1. You will return to the list in item 4. Repeat items 4-5 until the relevant products have been moved to Room 1.
- Press  "Continue" to proceed.

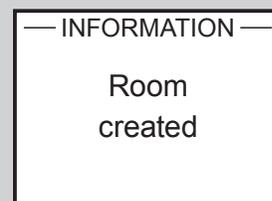


6 Displays a list of options.

- Press  to highlight "Save Room".
- Press  "Enter" to confirm your choice.
- Highlight one of the other options to undo your choice.



7 The display shows that a Room has been created.



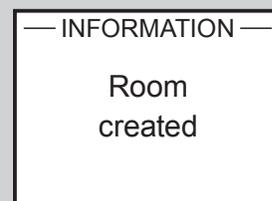
8 The display asks whether to assign the remaining products to just one new Room.

- Press  "Yes" to save the remaining products in Room 2.
- Press  "No" to return automatically to the list in item 3 and possibly create more Rooms.

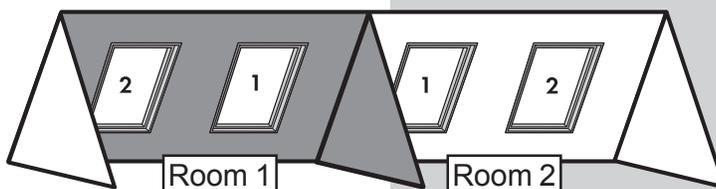
Note: All products must be assigned to a Room.



9 The display shows that a new Room has been created.



Note: Numbers are assigned in the order in which the products are moved to the Room in question.

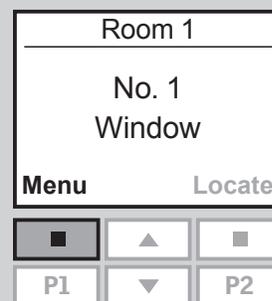


Editing a Room

You can edit the Rooms you have created, ie one or more products can be moved from one Room to another.

The example shows how the skylight operator in skylight No. 1 (indicated as "Window" in the remote display) can be moved from Room 1 to Room 2.

1 Press  "Menu".



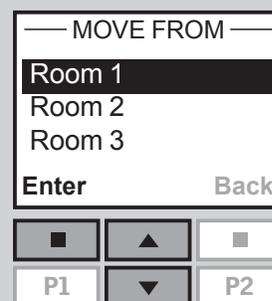
2 Scroll through the menus:



3 Displays a list of the Rooms created.

Press  to highlight the Room from which to move the product.

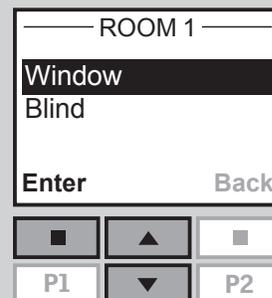
Press  "Enter" to confirm your choice.



4 Displays a list of product types in the Room from which to move the product.

To choose the product type skylight operator, press  and highlight "Window".

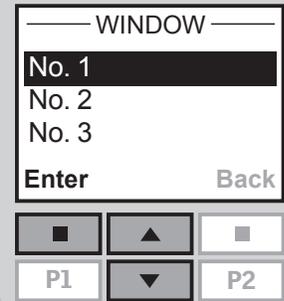
Press  "Enter" to confirm your choice.



5 Displays a list of the individual products within the product type in question.

Press  to highlight the product to be moved. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.

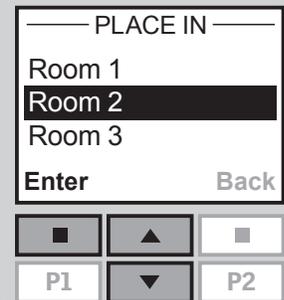
Press  "Enter" to confirm your choice.



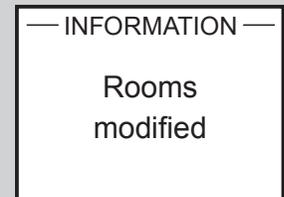
6 Displays a list of Rooms in which the product can be placed.

Press  to highlight the Room in which to place the product.

Press  "Enter" to confirm the new location of the product.



7 The display shows that several Rooms have been modified.



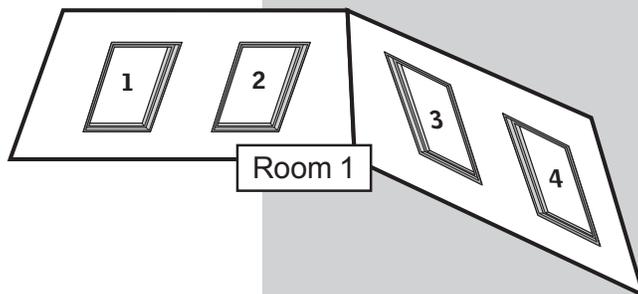
Groups are edited according to the same principle as Rooms.

Note: Numbers are assigned in the order in which the products are moved to the Room in question.

Creating a Group

To make it easier to locate and operate products of the same type simultaneously, you can create a Group.

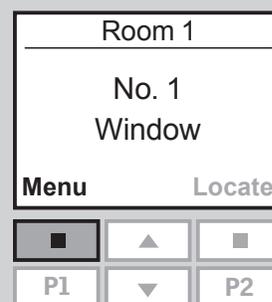
The example shows a room with four skylights, each with a skylight operator. It is shown how to create Group 1 consisting of the skylight operators on the two skylights No. 3 and No. 4 (indicated as "Window" in the remote display). The example presupposes that Room 1 has been created.



Note: When Room 1 was created, a number of Groups "All" was created automatically - each consisting of all products of the same type in the Room in question, see section *Room, Group and Zone*.

A Group created across more Rooms is shown in the display as a Zone.

1 Press  "Menu".

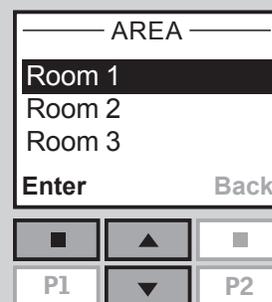


2 Scroll through the menus:



3 Displays a list of the Rooms created.

Press  to highlight the Room in which to create Group 1. Press  "Enter" to confirm your choice.



4 Displays a list of the product types in Room 1.

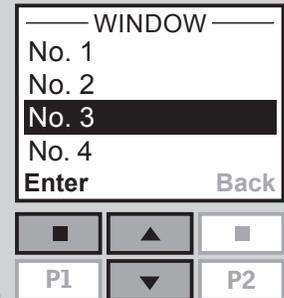
To choose the product type skylight operator, press  to highlight "Window". Press  "Enter" to confirm your choice.



5 Displays a list of the individual products within the product type in question.

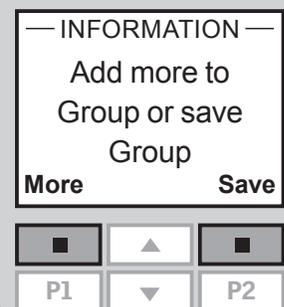
Press  to highlight the product to be included in Group 1. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  "Enter" to confirm your choice.

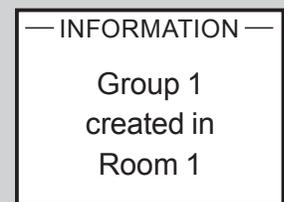


6 The display asks whether to move additional products to Group 1.

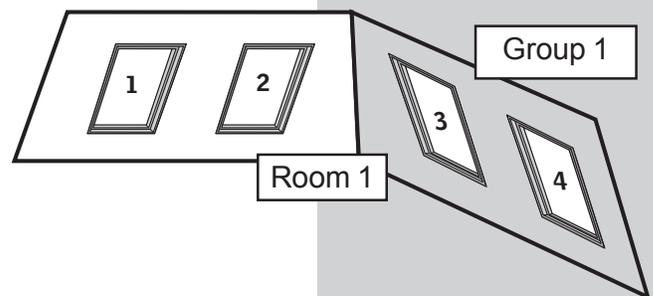
- Press  "More" to move additional products to Group 1. You will return to the list in item 5. Repeat items 5-6 until these products have been moved to Group 1.
- Press  "Save" to create Group 1.



7 The display shows that Group 1 has been created in Room 1.



Groups are edited according to the same principle as Rooms.



Note: When operating Groups, a delayed execution of commands might occur. If you want a particular product to respond at once, this product must be operated individually.

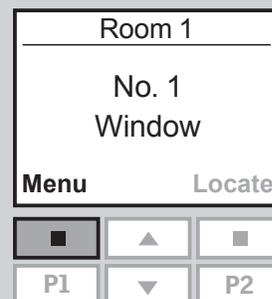
Naming

You can change the name of House and the names of the automatically numbered Rooms, Zones, Groups, products and Programs into more personal names.

The example shows how to change Room 1 into Kitchen.

Note: When you have used the function Rename, automatic renumbering is disabled.

1 Press  "Menu".



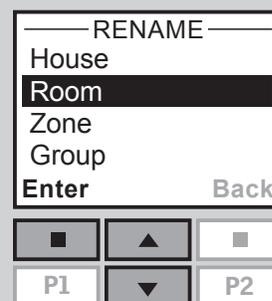
2 Scroll through the menus:

House settings → Rename

3 Displays a list with House, Room, Zone, Group and Product.

Press  to highlight "Room".

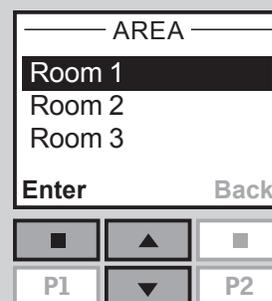
Press  "Enter" confirm your choice.



4 Displays a list of the names automatically given to the Rooms.

Press  to highlight "Room 1".

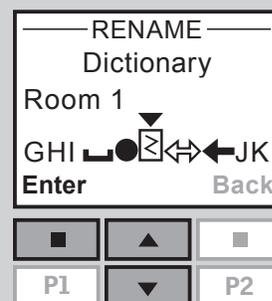
Press  "Enter" to confirm your choice.



5 Displays a line of characters including space symbol , save symbol , dictionary symbol , insert symbol  and delete symbol .

Press  to highlight the dictionary symbol .

Press  "Enter" to open the dictionary.

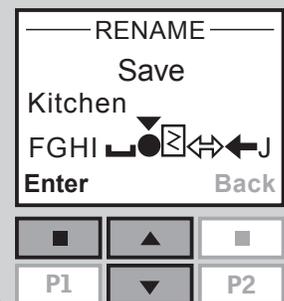


- 6 Displays a list of pre-defined locations.
Press  to highlight the relevant location.
Press  "Enter" to confirm your choice.

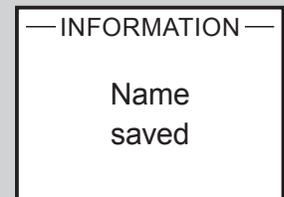


- 7 Press  to highlight the save symbol ●.
Press  "Enter".

Note: You can also create a new name by choosing and entering the relevant characters, one by one. After entering the last character, the new name is saved by highlighting the save symbol ●.



- 8 The display shows that the new name has been saved.



Favorite settings

You can appoint an area and/or a product or a Group of products as your favorite. Typically this will be the area or the product that is operated most often. If you have selected a product as your favorite, the display will as default return to this product whenever the remote control has been used.

Selecting your favorite product

The example shows how to select skylight No. 2 (indicated as "Window" in the remote display) as your favorite product.

1 Press  "Menu".



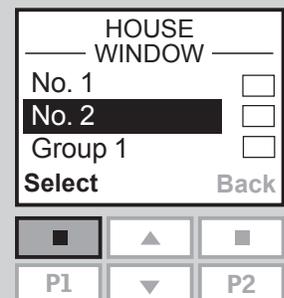
2 Scroll through the menus:

User settings → Favourite settings → Favourite product

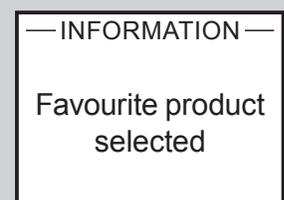
3 The display shows a list of all products and Groups in House.

Press  to highlight the favorite product. The relevant product can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  "Select" to select your favorite product.



4 The display shows that your favorite product has been selected.



Note: If a favorite area has been selected already, the favorite product must be in this area.

Deselecting your favorite product

You can undo your choice of favorite product.

The example shows how to deselect skylight No. 2 (indicated as "Window" in the remote display) as your favorite product.

1 Press  "Menu".



2 Scroll through the menus:

User settings



Favourite settings



Favourite product

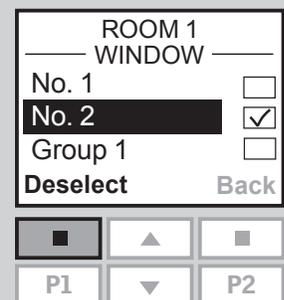


3 Press  "Edit" to make changes.

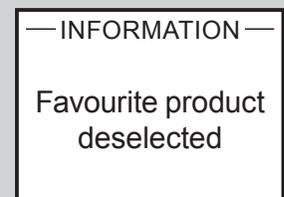
4 The display shows a list of all products in House. The product type, in this case skylights (indicated as "Window"), appears in the display. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  to highlight the current favorite product.

Press  "Deselect" to deselect the product.



5 The display shows that the favorite product has been deselected.

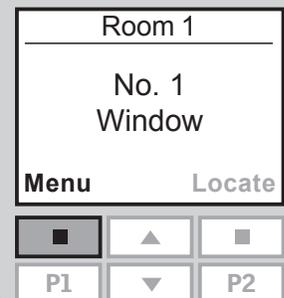


Rearranging order

You can rearrange the order of the individual products, Groups, Rooms and Zones displayed.

In the example, three Rooms have been created. It shows how to rearrange the order of the roller shades (indicated as "Blind" in the remote display) in Room 2.

1 Press  "Menu".



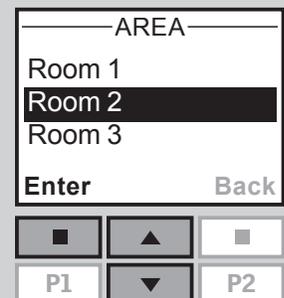
2 Scroll through the menus:



3 Displays a list of the Rooms created containing the products in question.

Press  to highlight the Room in which to rearrange the order of the individual products.

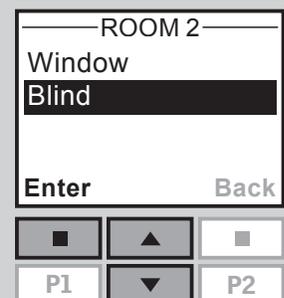
Press  "Enter" to confirm your choice.



4 Displays a list of the product types in Room 2.

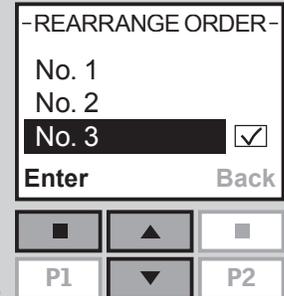
Press  to highlight the product type where to rearrange the order of the individual products.

Press  "Enter" to confirm your choice.



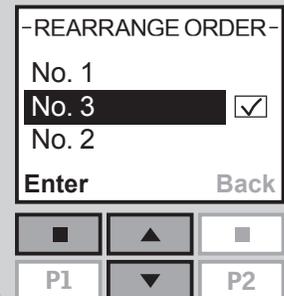
5 Displays a list of the individual products of the chosen product type. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  to highlight the product in question.
Press  "Enter" to confirm your choice.



6 The list of the individual products of the chosen product type is still displayed.

Press  to move the chosen product.
Press  "Enter" to confirm the rearranged order.

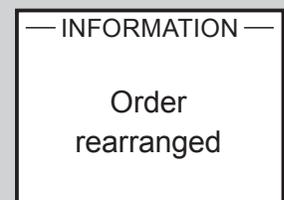


7 The display asks whether to rearrange the order of more products or whether to save the changes.

- Press  "More" to rearrange the order of more products. You will return to the list in item 5. Repeat items 5-7 until the required order of products has been obtained.
- Press  "Save" to save the rearranged product order.



8 The display shows that the order has been rearranged.



A program contains a sequence of commands on how and when the products are to be operated.

There are two different program types:

- **My program**

A personal program that will be activated automatically without using the remote control.

For instance you can record a morning program to run up the roller shades in the bedroom and open the skylights between 7 and 7.15 am on weekdays from October to April.

- **Shortcut P1/P2**

A personal program that can be activated by using the shortcut keys.

For instance you can record and save a program under shortcut key P1 to close all skylights in the house and draw all blinds down by 50%.

My program

My program is an automatically activated program which contains a sequence of operating commands for one or more products. The sequence is automatically activated at a pre-set time within a period defined by a starting date and an end date.

The example shows how to program skylight No. 1 (indicated as "Window" in the remote display) in Room 1 to open at 6.30 pm and close again at 6.45 pm each Monday for 12 months.

1 Press  "Menu".

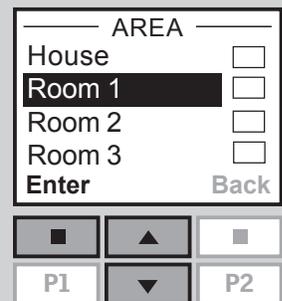


2 Scroll through the menus:



3 The display shows a list of areas.

Press  to highlight "Room 1".
Press  "Enter" to confirm your choice.



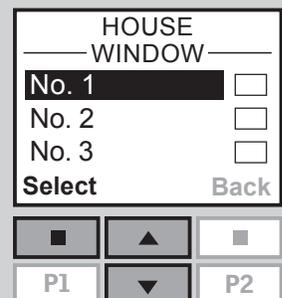
4 The display shows a list of the product types.

Press  to highlight skylights (indicated as "Window").
Press  "Enter" to confirm your choice.

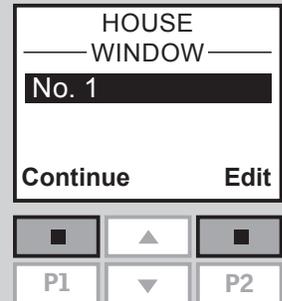


5 Locate the skylight. The relevant product can be identified by pressing  for a short period of time. This will activate the product briefly.

Press  "Select" to choose the product.



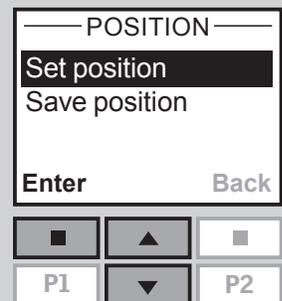
- 6 The display shows the selected product.
- Press  "Continue" to proceed.
 - Press  "Edit" to return to item 3 in case of additions or changes.



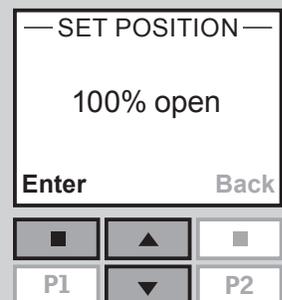
- 7 The display asks whether to save the selected product.
Press  "Yes" to save the selected product.



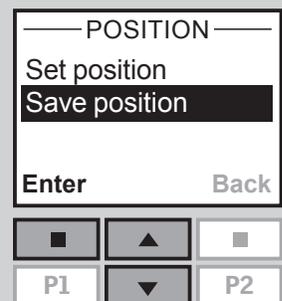
- 8 Press  to highlight "Set position".
Press  "Enter" to confirm your choice.



- 9 Press  to set the opening position of the window. 100% corresponds to fully open.
Press  "Enter" to confirm your setting.



- 10 Press  to highlight "Save position".
Press  "Enter" to confirm your choice.



My program

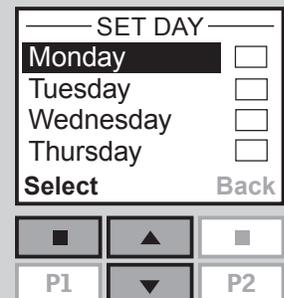
- 11** Press  to set the time for the skylight to be opened. First choose minutes.
Press  "Enter" to change to hours.



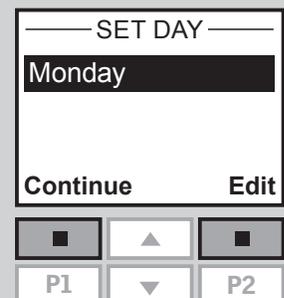
- 12** Press  to set hours.
Press  "Enter" to confirm your setting.



- 13** Press  to select the day of the week for the skylight to be opened.
Press  "Select".



- 14** The display shows the chosen day of the week.
- Press  "Continue" to proceed.
 - Press  "Edit" to return to item 13 in case of additions or changes.

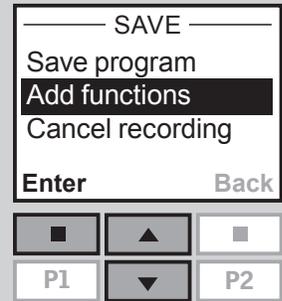


- 15** The display asks whether to save the selected day.
Press  "Yes" to save the selected day.



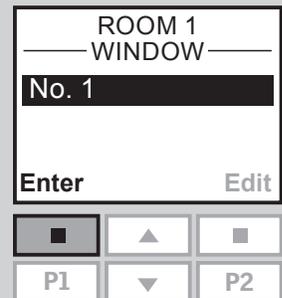
16 The display shows various options.

Press  to highlight "Add functions" to set the closing position of the skylight plus the day and time for closing. Press  "Enter" to confirm your choice.



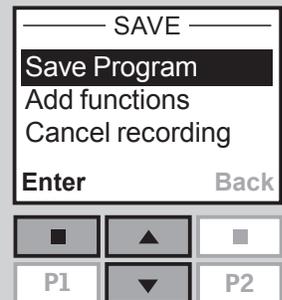
17 The display shows the latest selected product.

Press  "Enter" to continue. Repeat items 8-16, only this time applied to the closing settings.



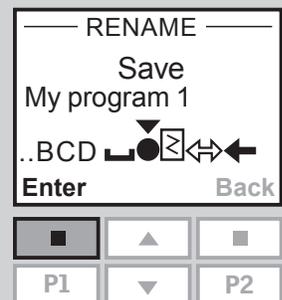
18 The display shows various options.

- Press  to highlight "Add functions" to add additional operating commands for the skylight or other products to the program. Press  "Enter" to return to item 17.
- Press  to highlight "Save Program" to save the program as it is. Press  "Enter" to save the program.



19 The display automatically suggests the name "My program 1".

Press  "Enter" to save the name. Follow the instructions in section *Naming* to change this name.



My program

20 The display asks whether to enable the program or to keep it disabled.

Press  to highlight "Enable".
Press  "Select" to confirm your choice.



Set starting and end date to enable the program.

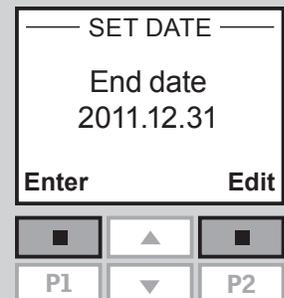
Starting date:

21 Press  "Edit" to choose a starting date.
Press  "Enter" to confirm your setting.

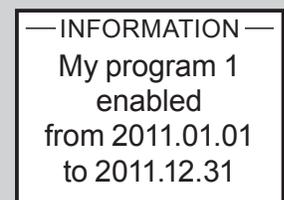


End date:

22 Press  "Edit" to choose an end date.
Press  "Enter" to confirm your setting.

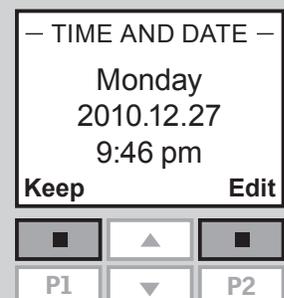


23 The display shows that My program 1 is enabled in the chosen period.



24 Check current time and date settings to ensure accurate operation of the products. The display shows day, date and time.

- Pres  "Keep" to confirm the settings.
- Pres  "Edit" to change day, date or time.



Choose "Enable" under menu item Program settings to get a full list of all recorded programs that can be activated automatically. The list comprises both enabled and disabled programs. The enabled programs have been ticked and the disabled programs can be enabled any time you want.

Note: For solar products, automatically activated programs may result in a quick discharge of the battery due to frequent operation of the products.

Shortcut P1/P2

A program under Shortcut **P1/P2** contains a sequence of operating commands for one or more products. The sequence is activated by pressing shortcut key **P1** or **P2**. You can record up to eight programs, four under each of the shortcut keys. The programs can be set to be executed immediately, with a delay or at a certain time.

The example shows how to program skylight No. 1 (indicated as "Window" in the remote display) in Room 1 to open immediately and close again after 1 hour and 30 minutes (delay) by a single pressure on shortcut key **P1**.

1 Press  "Menu".

2 Scroll through the menus:

Program settings → Record → Shortcut P1/P2

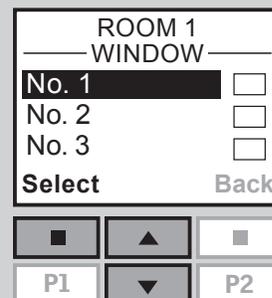
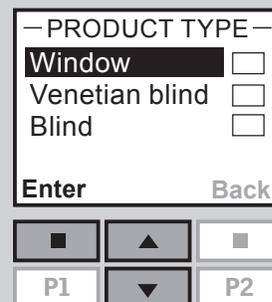
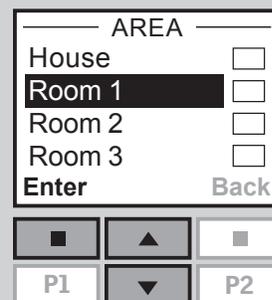
3 The display shows a list of areas.

Press  to highlight "Room 1".
Press  "Enter" to confirm your choice.

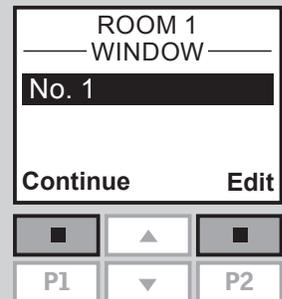
4 The display shows a list of the product types.

Press  to highlight skylights (indicated as "Window").
Press  "Enter" to confirm your choice.

5 Locate the skylight. The relevant product can be identified by pressing  for a short period of time. This will activate the product briefly.
Press  "Select" to select the product.



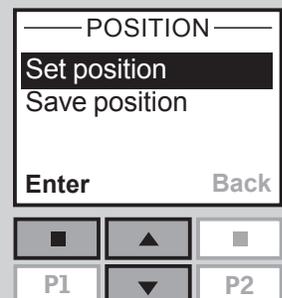
- 6 The display shows the selected product.
- Press  "Continue" to proceed.
 - Press  "Edit" to return to item 3 in case of additions or changes.



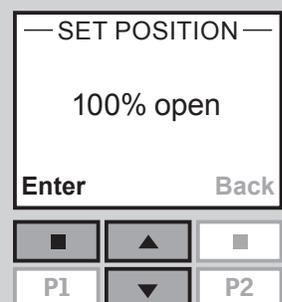
- 7 The display asks whether to save the selected product.
Press  "Yes" to save the selected product.



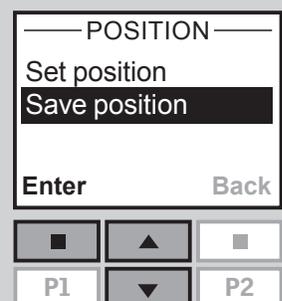
- 8 Press  to highlight "Set position".
Press  "Enter" to confirm your choice.



- 9 Press  to set the opening position of the skylight.
100% corresponds to fully open.
Press  "Enter" to confirm your setting.



- 10 Press  to highlight "Save position".
Press  "Enter" to confirm your choice.



Shortcut P1/P2

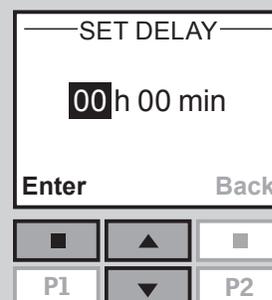
- 11** The display shows two time setting options.
Press  to highlight "Delay", ie the time that will pass from pressing P1 till the product will be activated.
Press  "Enter" to confirm your choice.



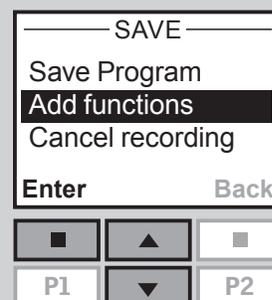
- 12** Press  to set the relevant delay. First choose minutes.
Choose 0 minutes if you want the window to open immediately.
Press  "Enter" to change to hours.



- 13** Press  to set hours.
Press  "Enter" to confirm your setting.



- 14** The display shows various options.
Press  to highlight "Add functions" to set the closing position and time of the skylight.
Press  "Enter" to confirm your choice.



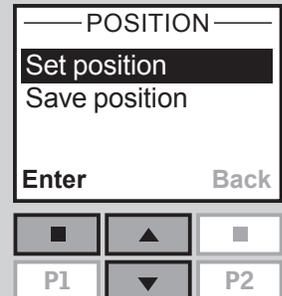
- 15** The display shows the latest selected product.
Press  "Continue" to proceed.



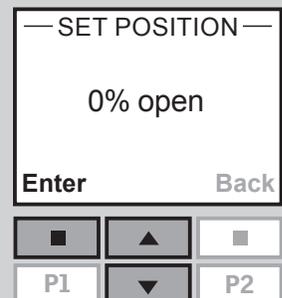
- 16 The display asks whether to save the selected product.
Press  "Yes" to save the selected product.



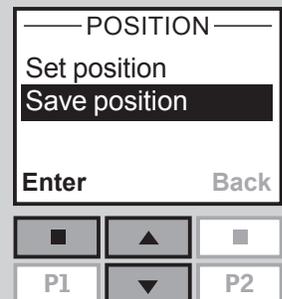
- 17 Press  to highlight "Set position".
Press  "Enter" to confirm your choice.



- 18 Press  to set the closing position of the skylight. 0% corresponds to fully closed.
Press  "Enter" to confirm your setting.



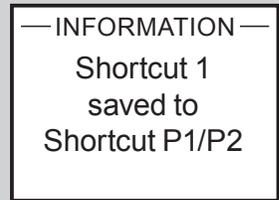
- 19 Press  to highlight "Save position".
Press  "Enter" to confirm your choice.



- 20 The display shows two time setting options.
Press  to highlight "Delay", ie the time that will pass from pressing P1 till the product will be activated.
Press  "Enter" to confirm your choice.

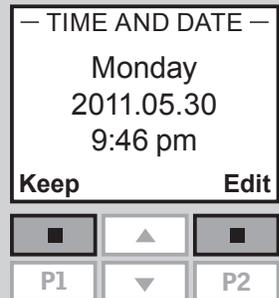


25 The display shows that Shortcut 1 has been saved.



26 Check current time and date settings to ensure accurate operation of the products. The display shows day, date and time.

- Press  "Keep" to confirm the settings.
- Press  "Edit" to change day, date or time.



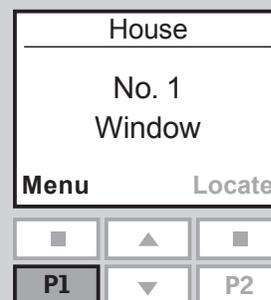
Activating a program under Shortcut P1/P2

You can activate any one of the personal shortcut programs by pressing the shortcut key **P1** or **P2**. You can still use the various functions of the remote control at the same time as one or more programs have been activated.

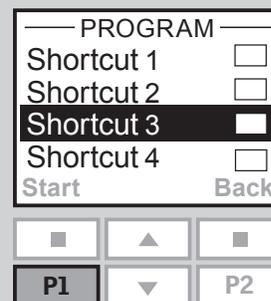
Below four shortcut programs have been recorded under shortcut key **P1**. The example shows how to activate the program Shortcut 3 via shortcut key **P1**.

- 1 Press **P1** three times to activate the program Shortcut 3.

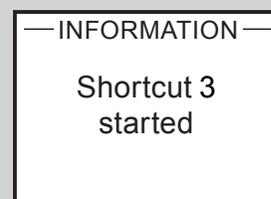
Note: Max time interval between each key pressure: 2 seconds. Otherwise the shortcut program that happens to be highlighted will be activated.



- 2 Shortcut 3 is highlighted in the display and the program automatically starts.



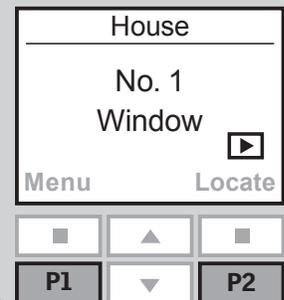
- 3 The display shows that the program Shortcut 3 has been activated.



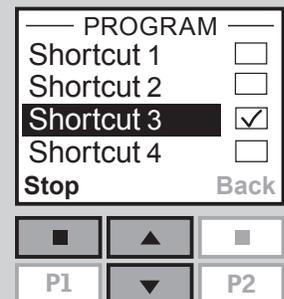
Interrupting a program under Shortcut P1/P2

Icon  indicates that a program has been activated. A shortcut program in progress can be interrupted as follows:

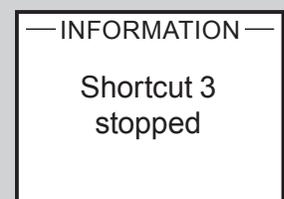
1 Press **P1** or **P2** to find the shortcut program in progress.



2 The activated shortcut program has been ticked.
Press  to highlight the program in question.
Press  "Stop" to interrupt the program.



3 The display shows that the program Shortcut 3 has been stopped.



Display light

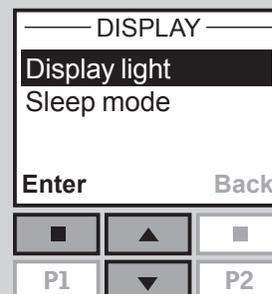
In standard settings, the light in the display is turned on when the keypad is activated and turned off again after 20 seconds. If you do not want any light in the display and you want to prolong the battery lifetime, you can opt out of this.

The example shows how to turn off the light in the display.

1 Press  "Menu".

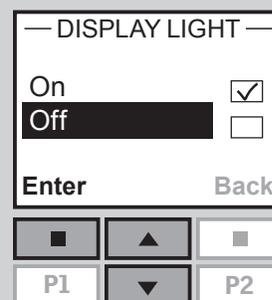


2 Scroll through the menus:



3 Press  to highlight "Display light".
Press  "Enter" to confirm your choice.

4 Press  to highlight "Off".
Press  "Enter" to confirm your choice.



Note: The light in the display can be turned on by choosing "On" in item 4.

Sleep mode

The life of the batteries can be prolonged by setting the remote control to go into sleep mode. When it has been set to go into sleep mode, the light in the display will be turned off 20 seconds after the latest key pressure. Time is shown.

Press any key to activate the remote control again. However, a long press of the stop key  will immediately stop all products in operation.

The example shows how to set the remote control to go into sleep mode.

1 Press  "Menu".

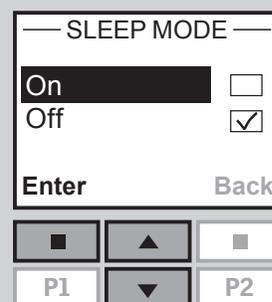
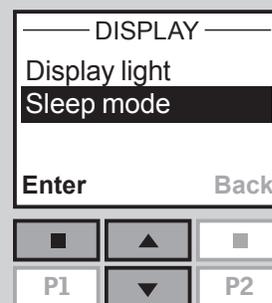
2 Scroll through the menus:

User settings → Display

3 Press  to highlight "Sleep mode".
Press  "Enter" to confirm your choice.

4 Press  to highlight "On".
Press  "Enter" to confirm your choice.

5 When the remote control is in sleep mode, time is shown.



Note: Choose "Off" in item 4 if you do not want the remote control to go into sleep mode.

Keypad lock

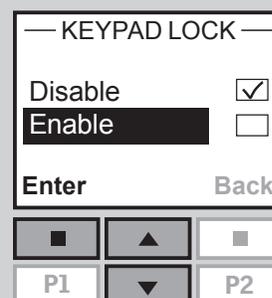
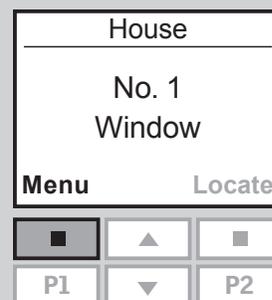
The keypad can be locked so that products cannot be operated without unlocking the keypad. The stop key  can still be used.

1 Press  "Menu".

2 Scroll through the menus:

User settings → Keypad lock

3 Press  to highlight "Enable".
Press  "Enter" to confirm your choice.
The keypad lock is immediately activated.



Using the keypad even if it is locked:

Message as shown.

Press  "Menu". Press  "Locate".

The keypad has temporarily been unlocked.

The keypad will automatically be locked again 20 seconds after it has been used.



Note: The keypad lock can be deactivated by choosing "Disable" in item 3.

Access code

You can choose a personal access code to protect your personal settings, for instance against unintentional deletion of programs. The access code must consist of four digits from 0 to 9.

1 Press  "Menu".

2 Scroll through the menus:

User settings → Access code

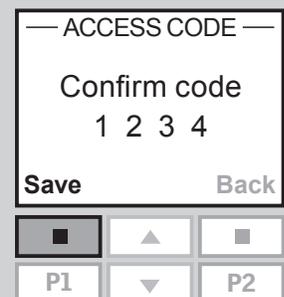
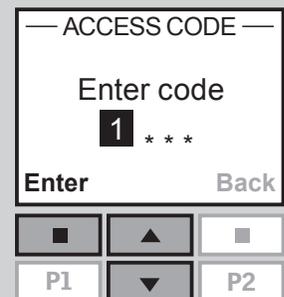
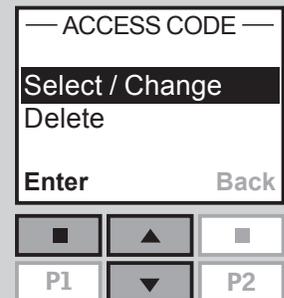
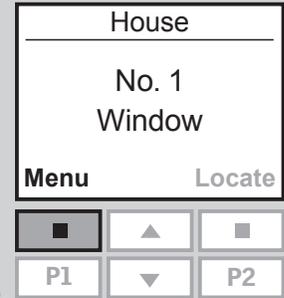
3 Press  to highlight "Select/Change".
Press  "Enter" to confirm your choice.

4 Press  to choose the first digit.
Press  "Enter" to go to the next digit.
Press  "Enter" when the last digit has been chosen.

5 Press  "Save" to confirm and save the code.

Every time you now choose Menu, you must enter the access code before you can proceed.

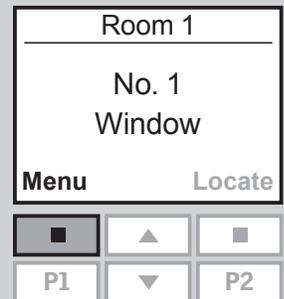
Note: The access code can be cancelled by choosing "Delete" in item 3.



Software version

When addressing technical inquiries to your VELUX sales company, you will be asked to provide the version number of the software in the remote control. To find this proceed as follows:

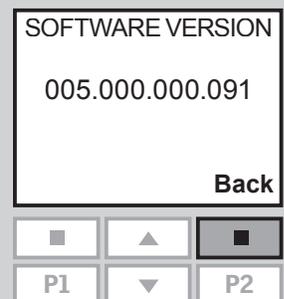
1 Press  "Menu".



2 Scroll through the menus:



3 The display shows a code, for instance **005.XXX.XXX.XXX**. The first three digits are the version number. Press  "Back" to return to the previous menu.



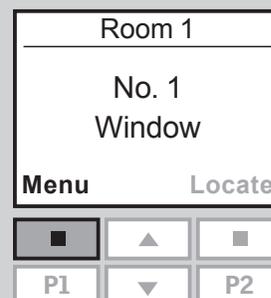
4 The display shows the previous menu.



Clearing remote control settings

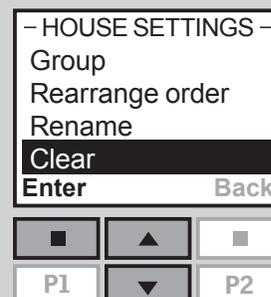
When clearing the remote control settings, all personal settings for eg Rooms, Zones, Groups and Programs and all personal names are deleted. The products, however, remain registered in the remote control.

1 Press  "Menu".



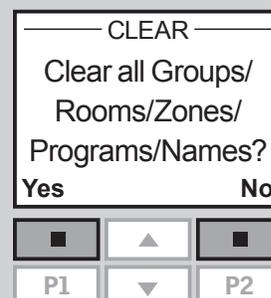
2 Select the submenu:
House settings

3 Displays a list of menu items.
Press  to highlight "Clear".
Press  "Enter" to confirm your choice.



4 The display asks whether to clear all Groups, Rooms, Zones, Programs and personal names you might have created.

- Press  "Yes" to confirm your choice.
- Press  "No" to cancel your choice.



The remote control settings will be cleared if you confirm your choice.

Registering new products

When a new additional product has been installed, it can be registered in a remote control already in operation. This new product can for instance be another skylight, a Venetian blind or a roller shade.

The example shows how to register a new roller shade (indicated as "Blind" in the remote display) in the remote control and place it in Room 1.

- 1 Prepare products for registration in one of the two following ways:
 - Disconnect the main power supply to the products for 1 minute and then reconnect it.
 - Press the button closest to the side frame of the skylight (B) once.

The products must now be registered in the remote control within the next 10 minutes.

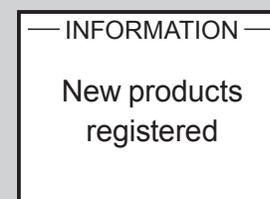
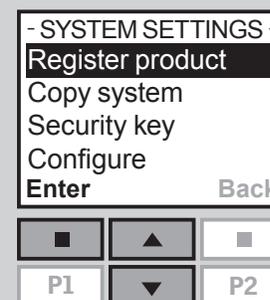
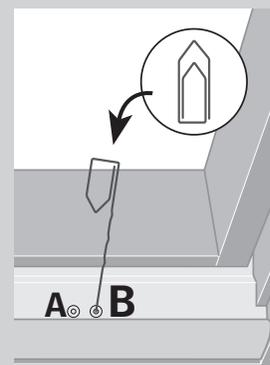
- 2 Press  "Menu" in the remote control already in operation.

- 3 Select the submenu:
System settings

- 4 Press  to highlight "Register product".
Press  "Enter" to confirm your choice.

- 5 Registration is running. This can take up to two minutes.

- 6 The display shows that the new product has been registered.



Now the product must be placed.

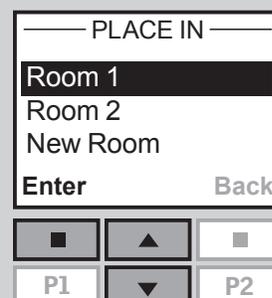
- 7a** If **no** Rooms have been created, the product is automatically placed in House.
Operation can start.



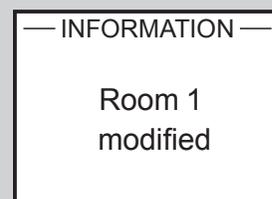
- 7b** If Rooms **have been** created, the product has to be placed in the appropriate Room.
The display shows a list of new products. The individual products can be identified by pressing  for a short period of time. This will activate the product briefly.
Press  to highlight the product to be placed.
Press  "Enter" to confirm your choice.



- 8** Displays a list of the Rooms created.
Press  to highlight the Room in which the product is to be placed.
Press  "Enter" to confirm your choice.



- 9** The display shows that the Room has been modified.
Operation can start.



Where more than one remote control is used, new products can also be operated with these. To do this, register the new products in each remote control by repeating items 2-9 for each of them.

Using additional activation controls

Products and remote control settings can be copied from one remote control to another. Copying depends on the type of activation control and on whether the remote control to be copied to is new or already in operation.

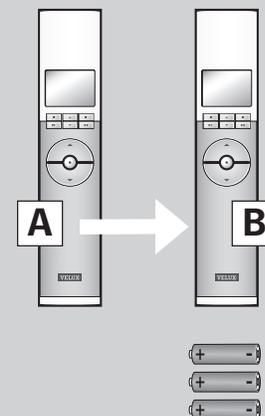
- **Copying to a new remote control**
How to copy the contents from one remote control to another remote control not yet in operation.
- **Copying to a remote control in operation**
How to copy the contents from one remote control to another remote control where the two remote controls have not registered the same products.
- **Adding products to a remote control in operation**
How to add products from one remote control to another remote control where the two remote controls have not registered the same products.
- **Copying products to other types of activation controls**
How to copy products in the remote control to another type of activation control, for instance a control keypad KLI 110.

Note: When copying between two VELUX remote controls, all registered products and personal settings can be copied, apart from personal programs that cannot be copied.

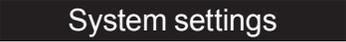
Copying to a new remote control

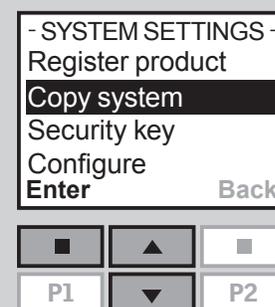
You can copy the contents from a remote control already in operation to a new one so that the latter can also operate the products already registered.

The example shows how to copy the products and the personal settings from a remote control **A** in operation to a new remote control **B** not yet in operation.



Step 1: Prepare remote control A for copying

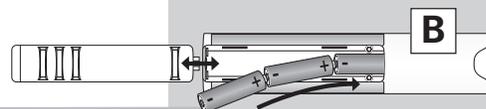
- 1 Press  "Menu".
- 2 Select the submenu:

- 3 Press  to highlight "Copy system".
Press  "Enter" to confirm your choice.



Note: Step 2 must now be completed within the next two minutes.

Step 2: Register products in remote control B

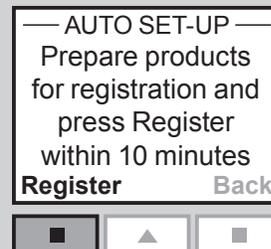
- 4 Insert the three batteries supplied (type AA, 1.5 volt) into the remote control as shown.



- 5 Choose language:
Press  to highlight your language.
Press  "Enter" to confirm your choice.



- 6 Press  "Register" to start registration of each product.
Please disregard the information in the display.



The display now indicates that copying is in progress.

Remote control **B** can now operate the same products as remote control **A**.

Copying to a remote control in operation

If you have two remote controls with different products registered, you can copy the contents from one to the other so that the latter becomes an exact copy including all personal settings such as Names, Rooms and Groups.

Step 1: Change security key in remote controls A and B

Change the security key in both remote controls so that they have the same key, see section *Security key*.

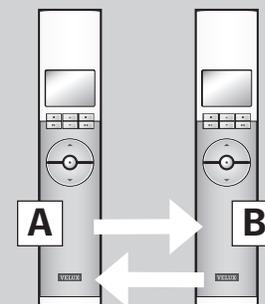
Step 2: Reset remote control B

Reset remote control **B**, see section *Resetting the remote control*.

Step 3: Copy from remote control A

Copy the contents from remote control **A** as described in section *Copying to a new remote control*.

Note: Before making an exact copy of remote control **A**, consider adding products from remote control **B** to remote control **A** as described in step 2 in section *Adding products to a remote control in operation*.



Adding products to a remote control in operation

If you have two remote controls with different products registered, you can add the missing products in both. Then all products can be operated with one or both remote controls.

The example shows how to add the products from remote control **A** to remote control **B** and at the same time maintain the settings and the programs of both remote controls.

Step 1: Change security key in remote controls A and B

Change the security key in both remote controls so that they have the same key, see section *Security key*.

Step 2: Register the products in remote control B

Register all products in remote control **B** by choosing:

Menu



System settings

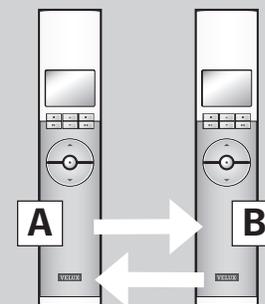


Register product

If in doubt, see section *Registering new products*.

Remote control **B** can now operate all the products. To make remote control **A** operate all the products as well, repeat step 2 with remote control **A**.

Note: With the shown procedure, only products are added.

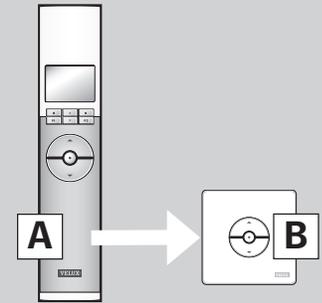


Copying products to other types of activation controls

You can copy one or more products registered in the remote control to another type of activation control. This other type of activation control can thus operate both its own and the copied products.

The example shows how to copy a product from remote control **A** to control keypad **B** so that the latter can operate the products already registered plus the product from remote control **A**.

Note: A VELUX control keypad can operate products of the same type only.



Step 1: Prepare remote control A for copying

- 1 Press  "Menu".
- 2 Select the submenu:
System settings
- 3 Press  to highlight "Copy system".
Press  "Enter" to confirm your choice.



Note: Step 2 must now be completed within the next two minutes.

Step 2: Register the product in activation control **B**

To copy a product to control keypad KLI 110, please refer to section *Configuring control keypad KLI 110 in addition to existing remote control KLR 100* in the instructions provided with the control keypad.

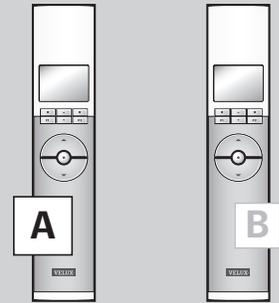
The product selected can now be operated with activation control **B**.



Security key

Each remote control and each product have a security key. To allow for communication between remote control and products, they must have the same security key. This also ensures that external activation controls cannot communicate with and thus operate the products unintentionally.

The example shows how to change the security key in remote control **A** and in the products registered in **A** (step 1). If you have more than one remote control, the new security key must also be transferred to these (step 2).



Step 1: Change security key in remote control A (including registered products)

1 Press  "Menu".



2 Scroll through the menus:



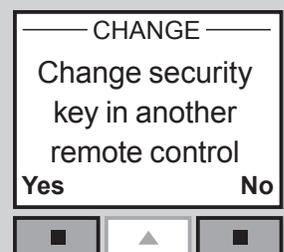
3 Press  to highlight "Change".
Press  "Enter" to confirm your choice.



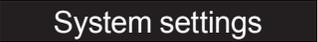
The display now indicates that the security key has been changed.

4 The display asks whether the security key of other remote controls is to be changed.

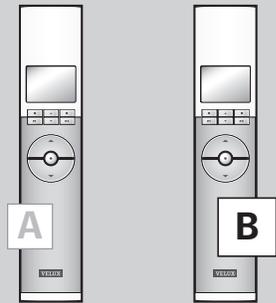
- Press  "No" to finish if this is the only remote control being changed.
- Press  "Yes" if there are other remote controls. Execute step 2 for these.



Step 2: Change security key in remote control B (and others)

- 1 Press  "Menu".
- 2 Scroll through the menus:
 → 
- 3 Press  to highlight "Receive".
Press  "Enter" to confirm your choice.

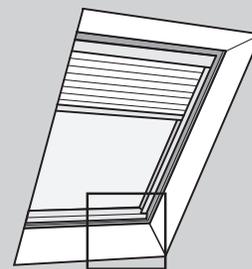
The display indicates that the security key is being transferred from remote control **A** to remote control **B**.



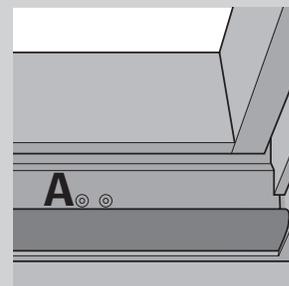
Resetting and preparing for registration

The skylight and all connected electrical products can be reset to remove the present registration and to prepare for a new registration.

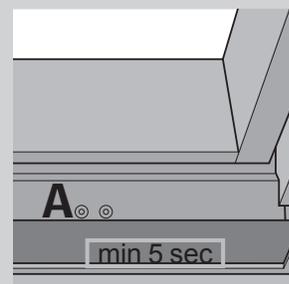
When resetting, the button located under the skylight operator cover hole closest to the center of the skylight (**A**) is operated by carefully inserting a pointed object.



- 1 To reset the skylight operator and connected electrical products, close the sash by pressing button closest to the center of the skylight (**A**).



- 2 When the skylight is closed, press and hold the button closest to the center of the skylight (**A**) for at least 5 seconds. The skylight operator and other electrical products connected to the skylight will run briefly back and forth indicating that they are ready to be registered.



Note: To make a new registration and reinstate the connection with the remote control, please refer to the instructions in section *Initial set-up* or *Registering new products*.

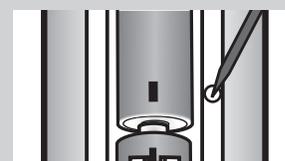
Resetting the remote control

The remote control can be reset to its initial factory settings if you want to delete all registered products and all programming and start afresh.



- 1 Slide off the battery cover as shown.

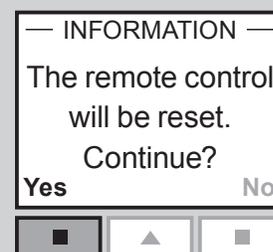
- 2 Press the button on the right side of the remote control with a pointed object for at least 5 seconds.



- 3 Replace the battery cover.



- 4 Press "Yes" to confirm that you want to reset the remote control.



The remote control has now been reset. To reinstate the connection between remote control and products, please refer to the instructions in section *Initial set-up*.

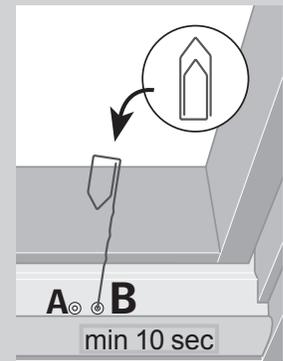
Adjusting the maximum opening

The skylight can be adjusted to three different maximum openings: 12" (300 mm), 8" (200 mm) and 4" (100 mm). Default is generally 12" (300 mm) but for specific skylights the maximum default opening may be 8" (200 mm).

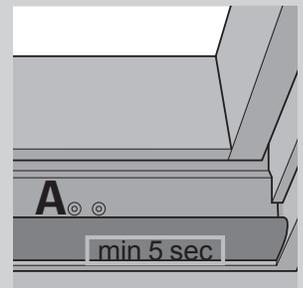
Note: For in-reach applications where the skylight is installed less than 8 ft. (2.5 m) from the floor, the default maximum opening must be 4" (100 mm).

When changing the maximum opening, the buttons located under the skylight operator cover holes (**A** and **B**) are operated by carefully inserting a pointed object through the holes in the skylight operator cover.

- 1** To change the opening, reset the skylight as described in section *Resetting and preparing for registration*, items 1 and 2.
- 2** Disconnect the main power supply and, if installed, battery backup KLB 100 for at least 60 seconds. Reconnect the power and, within 30 seconds, press and hold the button closest to the side frame (**B**) for 10 seconds or until the skylight opens. The skylight will open and stop at the latest set maximum opening.
- 3** Press the button closest to the side frame (**B**) to change this opening to the next maximum opening. When the skylight has stopped at the desired maximum opening, press the button closest to the center of the skylight (**A**) to accept the new opening setting. The skylight closes.



- 4 When the skylight is closed, press and hold the button closest to the center of the skylight (**A**) for at least 5 seconds. The skylight operator and other electrical products connected to the skylight will run briefly back and forth indicating that they are ready to be registered.
-



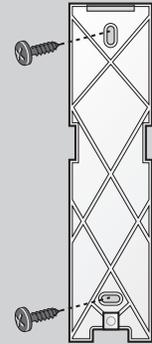
- 5 To make a new registration and reinstate the connection with the remote control, please refer to the instructions in section *Initial set-up* or *Registering new products*.
-

Fitting of holder for remote control

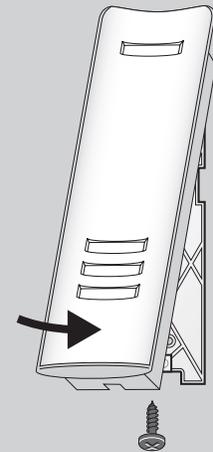
The remote control is provided with a wall-mounted holder, which can be fitted anywhere in your home.

Note: Check that the remote control can operate the relevant products from the proposed position before it is fastened to the holder.

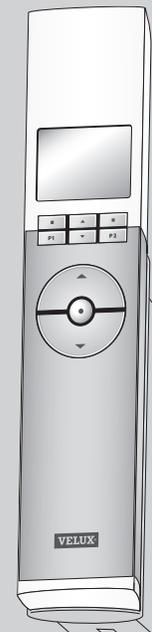
- 1 Fit the back section to the wall with the two screws supplied.



- 2 Hook the front section onto the back section at the top, click it into place at the bottom and fix it with a screw.

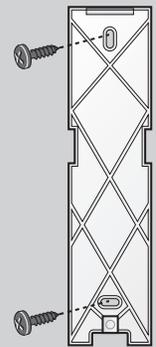


- 3 Place the remote control in the holder. It is secured by means of built-in magnets.

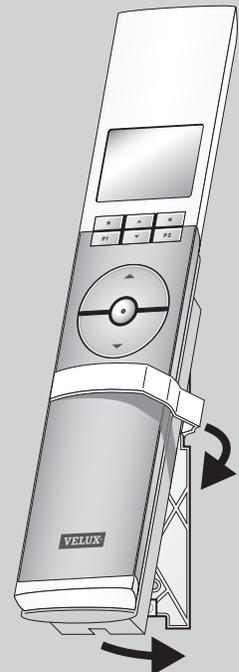


If required, the remote control can be fastened with screws to the holder.

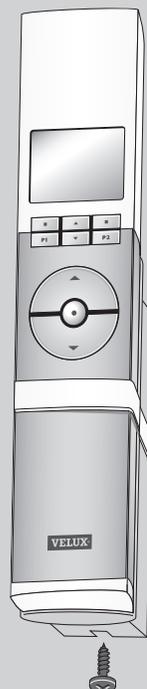
- 1 Fit the back section to the wall with the two screws supplied.



- 2 Place the remote control in the front section. Clip the white strap around the assembled unit. Hook the assembled unit to the back section at the top. Ensure that the strap fits into the openings in the sides of the back section. Lock the unit into place at the bottom.



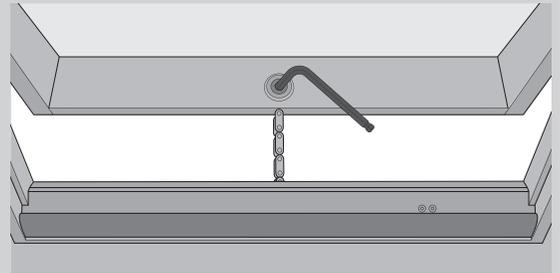
- 3 Fix the unit with screw at the bottom.



Closing skylights

In case of power failure

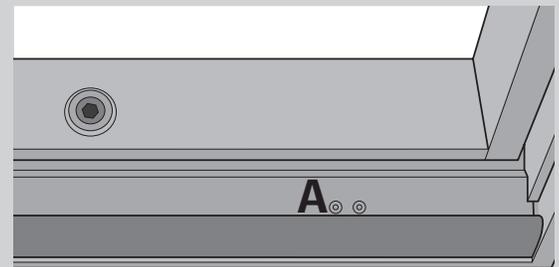
The chain can be disengaged by removing the plug in the center of the bottom sash and turning the screw, with the provided 2.5 mm hex key, counter-clockwise until it stops.



Note: The chain can be re-engaged by executing the above procedure in reverse order.

If the remote control has been mislaid

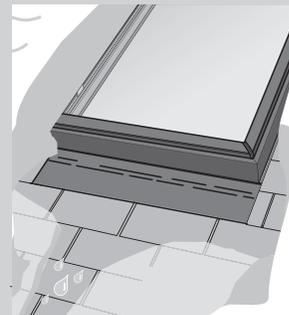
The sash can be closed by inserting a pointed object in the skylight operator cover hole closest to the center of the skylight (**A**) and pressing briefly.



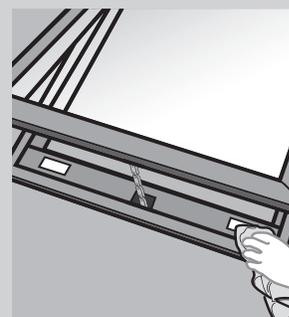
Note: Battery backup KLB 100 can be connected. Please contact your VELUX sales company for further information.

Switch off the main power supply before proceeding!

- 1 Snow and ice**
Remove snow and ice to allow melted water to drain off from and around the skylight.
-



- 2 Cleaning the rain sensor**
Dirt on the rain sensor may cause operating problems. Therefore, it is recommended to clean the rain sensor with a soft wet cloth once or twice a year or when needed.
-



Display symbols

Batteries must be changed within 2 weeks (type AA, 1.5 volt).	
Automatic closing has been activated for the product in question.	
Automatic closing has been activated for one of the other products in the remote control.	
Automatic registration of product(s) is running. Note: In some cases, this might take up to several minutes.	
Operation of a product.	
The product or function requested has been ticked.	
A program has been activated.	
Slats/louvres of a decoration and sunscreening product can be tilted/turned from 0 to 100%.	
A decoration and suncreening product can be drawn up/down or opened/closed from 0 to 100%.	
Pointer, see section <i>Naming</i> .	
A name can be saved, see section <i>Naming</i> .	
Deletion of character, see section <i>Naming</i> .	
Space character, see section <i>Naming</i> .	
Dictionary, see section <i>Naming</i> .	
Insertion of a character, see section <i>Naming</i> .	
Cursor, see section <i>Naming</i> .	

Display texts

Adjustment: VELUX electrical decoration and sunscreening products are not adjusted to the skylight size on delivery. When operated the first time, they will therefore run from bottom to top of the skylight or vice versa without interruption. After adjustment the product is ready for use.

Battery level low: The batteries in the remote control are running out of power.

Blocked: Unknown object obstructs operation of product. Remove obstruction to obtain normal operation.

If this message does not disappear even if you have checked for obstruction, please contact your VELUX sales company.

Limited by rain sensor: It is raining and the rain sensor has been activated. You can disable the rain sensor temporarily and operate the skylight.

Manually operated: The skylight has been opened manually. Close the skylight manually to allow for electrical operation.

Operational defect: The product has stopped during operation. Check the product.

Glossary

Activation control: An operator device, for instance a remote control or a control keypad, with which you can operate an electrical product by pressing one or several buttons/keys.

Configuration: See Preparation for registration below.

Memory: The following functions occupy the memory of the remote control: Room, Group, Rename and Programs. Use of these functions will reduce the total memory.

Preparation for registration: A product must be registered in an activation control before it can be operated. After connecting a new product to the main power supply or pressing the button closest to the side frame of the skylight (**B**), the product will search for an activation control for 10 minutes.

Product: A product, which can be operated with the remote control, such as a skylight, a roller shade or a Venetian blind.

Registration: A product is registered in an activation control when the security key of the activation control is assigned to the product.

Repeater: A unit increasing the range of the remote control.



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