

SYLVANIA enabled Lighting and Appliance Control System

User Manual



Table Of Contents

	Page
Important Safety Instructions	5
Maintenance	6
Fcc part 15 warning	7
1 Introduction	8
2 SYLVANIA Z-Wave Products	10
2.1 Description of the SYLVANIA Z-Wave Remote Control with display	11
2.1.1 Introduction to the Remote Control	11
2.1.2 Button Layout	12
2.1.3 Menu structure	13
2.2 SYLVANIA Z-Wave Outlet Adaptor Dimmer	14
2.3 Introduction to the SYLVANIA Z-Wave the Outlet Adaptor High Power	15
3 How to get started	16
3.1 Preparing the Remote Control	16
3.2 Assigning the Outlet Adaptor to the Remote Control	17
4 How to use the features of the SYLVANIA Z-Wave Lighting and Appliance Control System	18
4.1 Groups/Scenes	18
4.1.1 Add Outlet Adaptor to a group	18
 SYLVANIA Z-Wave Lighting and Appliance Control System Manual	 1

4.1.2 Controlling Groups	20
4.1.2.1 Using Speed buttons	20
4.1.2.2 Using Navigation buttons	21
4.1.2.3 Dim a group of lamps	22
4.1.3 Program a scene	23
4.1.4 Add Outlet Adaptor dimmer to scene	23
4.1.5 Controlling scenes	24
4.1.6 Remove Outlet Adaptor from group/scene	25
4.1.7 Delete group/scene	26
4.1.8 Name a group/scene	27
4.2 All ON and All OFF	29
4.3 Timer	30
4.3.1 Create/Edit a Timer	30
4.3.2 Delete Timer	32
4.4 Child Protection	33
4.4.1 Activate Child Protection	33
4.4.2 Deactivate Child Protection	34
4.5 Burglar Deterrent	35
4.5.1 Activate Burglar Deterrent	36
4.5.2 Exclude Unit	37
4.5.3 Include Unit	38

5 Set-up Commands	39
5.1 Set Clock	39
5.2 Adjust the display contrast	40
5.3 Setup All ON/OFF	41
5.3.1 Exclude or Include an Outlet Adaptor in the All ON/OFF functionality	41
5.3.2 Activate/Deactivate the All ON Function	42
5.4 Add new Remote Control to system	42
5.4.1 Send information	44
5.4.2 Receive information	45
5.5 Reconfigure the system	46
5.5.1 Reset Outlet Adaptor	46
5.5.2 Reset Remote Control	47
6 Operation Mode	48
6.1 Operation display	48
6.2 Slave Remote Control indication	48
6.3 No active group indication	48
6.4 Scene indication	48
6.5 Low battery indication	49
7 Product Support	49
8 Troubleshooting	50
SYLVANIA Z-Wave Remote Control	52

SYLVANIA Z-Wave Outlet Adaptor Dimmer	53
SYLVANIA Z-Wave Outlet Adaptor High Power	54



IMPORTANT SAFETY INSTRUCTIONS

When using your telephone product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating. These openings should never be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service contractor when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.

12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustments of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinctive change in performance.
13. Void using a product (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the product to report a gas leak in the vicinity of the leak.
15. Only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.



MAINTENANCE

1. Use a damp cloth to clean the plastic cabinet. A mild soap will help to remove grease or oil. Never use polish, solvents, abrasives or strong detergents since these can damage the finish.
2. Your phone should be situated away from heat sources such as radiators, heaters, stoves or any other appliance that produces heat

**FCC PART 15 WARNING**

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

1 Introduction

This user manual is designed to guide you through the set-up and features of the SYLVANIA Z-Wave Lighting and Appliance Control System. You will be amazed at the possibilities for you home or office!

With SYLVANIA's Lighting & Appliance Control System you easily and affordably enhance the comfort and security of your home or office. You'll see how easy it is to create a totally custom system quickly that can remotely control lamps and appliances, without costly professional installation -- a system that any do-it-yourselfer can easily handle.

For example, with just one remote control unit you can control up to 64 individual lamp modules or wall switches! You can control all adapters at once, singly or in groups, turn-on custom programmed mood lighting, timers for burglar-deterrent lighting or automatic "one-click" on/off control, and lock-off outlets for child protection.

This user guide tells you how to create your system. Instructions for installing built-in components (wall switches, etc.) are included with those components. The Sylvania Z-Wave Lighting & Appliance Control System gives you the following functionalities:

Safety and Security

Burglar Deterrent	Let your lights turn on and off randomly throughout the evening so "somebody is home when nobody is home..."
All ON	If you hear a noise and wake up in the middle of the night – turn on all the lights with one button

All OFF	When you' re in a hurry on the way out – turn off all your lights with one button
Child Protection	Protect your children from accidentally switching on electrical appliances like the toaster, the coffee maker, etc. by locking the power supply

Comfort

Remote Control	Control your lights wirelessly from the sofa, the bed, the kitchen, or wherever
Grouping	No more wandering from lamp to lamp. Control groups of lamps simultaneously with one button
Scenes	Create and save special lighting scenes for special occasions like dinner parties, TV watching, romance, book reading, etc.
Timers	Let the clock control your lamps and appliances so they automatically turn on and off at preset hours
Dimming	Dimming lights with the Home Control System saves on electric bills.

Full Home Coverage

One of the key features of the SYLVANIA Z-Wave technology is the routing capability of all the devices in the network. Z-Wave automatically routes the signal from one device to the next and around obstacles and radio dead spots in your home or office. You only need to be within 100' of any Sylvania Z-wave device to communicate with all other Sylvania Z-Wave devices, so the more Sylvania Z-Wave enabled devices you have in your home or office, the better the coverage.

2 SYLVANIA Z-Wave Products

Remote Control with LCD



Outlet Adaptor Dimmer



About the design:
The unique product design was developed by award winning designer Steve McGugan. He was the lead designer with renowned Danish company Bang & Olufsen before starting his own design house.

2.1 SYLVANIA Z-Wave Remote Control with display

2.1.1 Introduction to the SYLVANIA Z-Wave Remote Control



Listed below is the feature set of the Remote Control:

- Direct control of up to 64 Outlet Adaptors.
- 64 groups with up to 64 Outlet Adaptors in each. Every group can be configured differently, and the same Outlet Adaptor can be part of one or more different groups.
- 32 scenes with up to 64 nodes in each. Every Scene can be configured differently, and the same Outlet Adaptor can be part of one or more different groups.
- 8 timers. Each timer can be used to control any one of the existing groups.
- Burglar Deterrent mode that randomly turns on/off individual switches in the network.
- US language and time in 12H AM/PM format

Requirements:

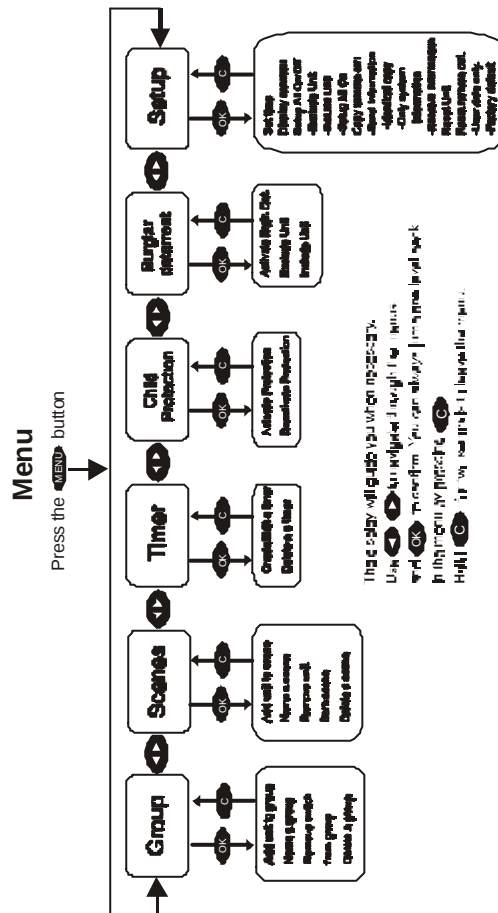
- Two AA batteries
- Only for indoor use

2.1.2 Button Layout



- "Menu" - Activates the menu interface
- "OK" - Accept choices
- "Light bulb on" - All ON
- "Light bulb off" - All OFF
- "Left arrow" - Navigation, left
- "Right arrow" - Navigation, right
- "C" - (Clear) steps back and cancels actions.
- "Heart" - Scene prefix button
- "1" to "6" - Speed buttons. Grants quick access to Groups and Scenes

Menu for the SYLVANIA Z-Wave Lighting and Appliance Control System



2.2 SYLVANIA Z-Wave Outlet Adaptor Dimmer

Introduction to the SYLVANIA Z-Wave Outlet Adaptor Dimmer

Outlet Adaptor button



Listed below is the feature set of the Outlet Adaptor Dimmer:

- Plugs directly into the power outlet in the wall
- Direct control via Outlet Adaptor button. Short press for on and off. Keep pressing to dim
- Controls one or more lamps either directly on the Outlet Adaptor button or wirelessly via the remote control
- Automatic repeater function to ensure full home coverage

Requirements:

- Maximum load 300 Watt
- Can only be connected to incandescent lamps and low-tension halogen lamps with mechanic iron core transformers. **Do not** connect to low energy light bulbs, fluorescent lights, and low-tension halogen lamps with electronic transformers.
- Voltage: 115V, 60Hz .
- Only for indoor use .

Warning: Only dim lamps – do not use the Outlet Adaptor Dimmer for electrical appliances like TV' s, toasters, coffee makers etc. Only use the Outlet Adaptor High Power for electrical appliances.

2.3 Introduction to the SYLVANIA Z-Wave Outlet Adaptor High Power(Available June 2003)

Outlet Adaptor button



Listed below is the feature set of the Outlet Adaptor High Power:

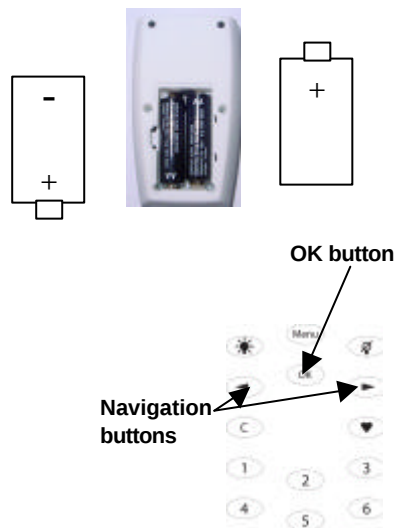
- Plugs directly into the power outlet in the wall
- Direct control via Outlet Adaptor button. Short press for on and off
- Controls one or more electrical appliances either directly on the Outlet Adaptor button or wirelessly via the remote control
- Automatic repeater function to ensure full home coverage

Requirements:

- Maximum load 1800 Watt
- Voltage: 115V, 60Hz
- Only for indoor use

3 How to get started - *It's incredibly easy!*

3.1 Preparing the Remote Control



First insert 2 AA batteries in the Remote Control as shown. You will now be asked to set the clock (in the display). Use the Navigation buttons



to set the clock and the OK button to go from hours to minutes. Press the OK button to save the time settings. The Remote Control is now ready for use.

Note: Also see section 5.1 for complete "Clock" Set up.

3.2 Assigning the Outlet Adaptor to the Remote Control

Speed button 1



1. Plug the SYLVANIA Z-Wave Outlet Adaptor (Dimmer/High Power) directly into the power outlet.
2. Press and hold Speed button 1 on the Remote Control.
3. While holding Speed button 1 on the Remote Control, press and release the Adapter Button until the display says, " Unit included" .
4. Now plug the lamp cord into the Outlet Adaptor Dimmer or electrical appliance cord into the Outlet Adapter High Power.

Outlet Adaptor button



Use the same procedure to include additional SYLVANIA Z-Wave Outlet Adaptors.

You can now remote control the lamp or electrical appliance. Press Speed button 1 once (short press) to turn the lamp or electrical appliance on / off.

To dim a lamp connected to an Outlet Adaptor Dimmer keep pressing Speed button 1. Release and press the Speed button to change dim direction.

Warning: Only dim lamps – do not use the Outlet Adaptor Dimmer for electrical appliances like TV' s, toasters, coffee makers etc. Only use the Outlet Adaptor High Power for electrical appliances.

4 How to use the features of the SYLVANIA Z-Wave Lighting and Appliance Control System

4.1 Groups/Scenes

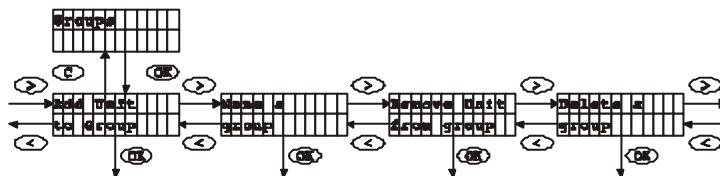
The "Group" function allows you to organize and activate several, many, or all lights, with the push of a button. No more wandering from lamp to lamp when you come home, or when you're on your way out.

When assigning an Outlet Adaptor to the Remote Control you create a group. You can create up to 64 groups and each group can include 1-64 Outlet Adaptors.

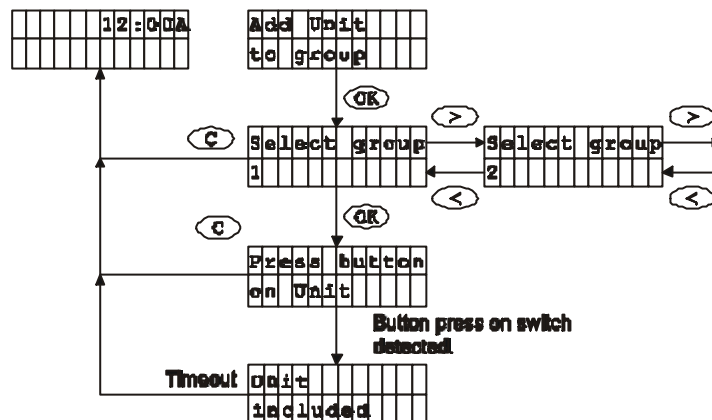
An Outlet Adaptor must be assigned to a group before it can be included in a scene. You can create up to 32 scenes and each scene can include 1-64 Outlet Adaptors.

The layout and behaviour of the "groups" and "scenes" menu are very similar. Where they are identical groups are used as an example.

4.1.1 Add Outlet Adaptor to a group / How to create a group



Adding a switch to a group using the menu is done this way:



You can create up to 64 groups and assign up to 64 nodes to each group:

1. Press the Menu Button. Press the OK button to access "Groups".
2. Go to "Add Unit" using the Navigation buttons and Press OK.
3. Select a group number 1-64 using the Navigation buttons and press OK.
4. Now press and release the Outlet Adaptor button until the display says "Switch Included".
5. To add more Outlet Adaptors repeat step 4. Press OK when all Outlet Adaptors you want to include in the group are included.
6. You have now created a group-
7. Now plug the lamp cord into the Outlet Adaptor Dimmer or electrical appliance cord into the Outlet Adapter High Power.

Alternatively if the group has been named, the name shows up instead of the number.

4.1.2 Controlling groups

Groups are controlled by either pressing the buttons 1 through 6 or using the Navigations buttons (marked with left or right arrows) to select the group that is to be controlled.

4.1.2.1 Using speed buttons

The buttons marked 1 through 6 are used for speed access to the first 6 groups or scenes.

A quick press of the number key will toggle the selected group on or off. The display will display the following message:

Turning on	Turning off	Dimming
Group X	Group X	Group X

Alternatively if the group is named, the name will be displayed (to easily name a group see section 4.1.8):

Turning	on	Turning	off	Dimming
XXXXXXX		KITCHEN		KITCHEN

The text is displayed for a few seconds or until transmission is completed.

If no group has been assigned to the selected number key the following message will be shown for a few seconds:

B	u	t	t	o	n		n	o	t		
p	r	o	g	r	a	m	m	e	d		

If for some reason the transmission fails, the following message will be shown until the user presses a key:

Group						
failed!						

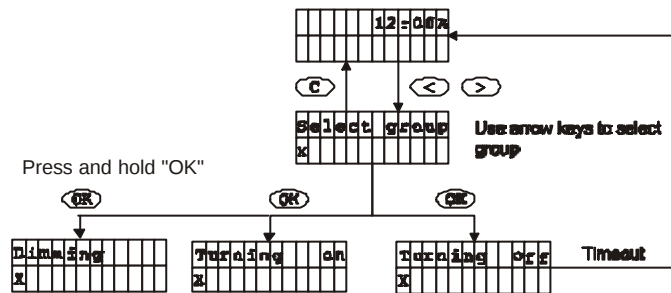
Holding down a number key will start dimming of the selected group. Note that once an Outlet Adaptor is at max or minimum dim level the button should be released and held down again in order to change dim direction.

4.1.2.2 Using Navigation buttons

Another way to access groups is to use the left or right arrow buttons from the operation state. This is the only way to control the groups from 7 to 64. Also note that only the existing groups that show up when the user toggles through the list. If a group is named, the name will be shown instead of the number.

A quick press of the "OK" button will unit a group on or off. Holding down the "OK" button will dim the group. Release and hold down the "OK" button to change the dim direction.

It looks like this:



4.1.2.3 Dim a group of Lamps connect to Outlet Adaptor Dimmers

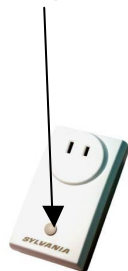
Press and hold Speed button 1 to dim the lamp connected to Speed button 1



1. First make sure that the Outlet Adaptor Dimmers are assigned to the Remote Control. Refer to previous page "Add Outlet Adaptor to a group".
2. To dim groups 1-6, press and hold the respective Speed button until you reach the dim level you desire. Once an Outlet Adaptor Dimmer is at max or minimum dim level the button should be released and held down again in order to change dim direction.
3. You can also dim the lamp by pressing and holding the Outlet Adaptor button on the Outlet Adaptor Dimmer.

The next time you turn on the group of lamps connected to the group you dimmed, the Outlet Adaptor Dimmer will remember the last dim level setting.

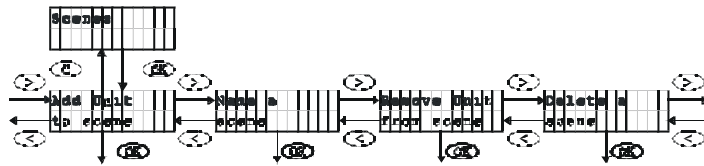
Outlet Adaptor button



Warning: Only dim lamps – do not use the Outlet Adaptor Dimmer for electrical appliances like TV's, toasters, coffee makers etc. Only use the Outlet Adaptor High Power for electrical appliances.

Note: While dimming the Remote Control will be open for assigning new Outlet Adaptors to the group you are dimming. Therefore be aware that if someone presses the Outlet Adaptor button on an Outlet Adaptor that is not part of the group your are dimming you may accidentally assign this Outlet Adaptor to the group. If this happens please refer to the section "Remove Outlet Adaptor from group/scene" how to remove the Outlet Adaptor from the group.

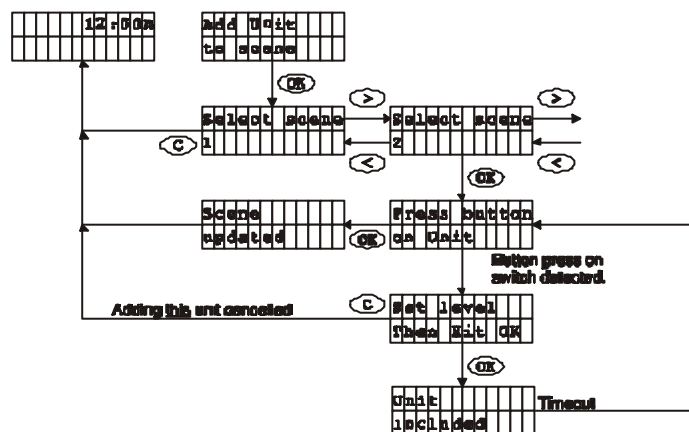
4.1.3 Program a scene using the Outlet Adaptor Dimmers



Scenes allow you to preset different light levels, then, with the push of a button select dinner scene, watch TV scene, evening scene, or whatever you choose.

4.1.4 Add Outlet Adaptor Dimmer to scene

Adding an Outlet Adaptor Dimmer to a scene using the menu is done this way:



1. Press the Menu button and scroll to the "Scenes" menu using the Navigation buttons. Press the OK button to access the "Scene menu".
2. Go to "Add Switch to scene" using the Navigation buttons and press OK to access the "Add Switch" action.
3. Select a scene number (e.g. 1,2,3 .) where you want to assign to the scene. Press OK.

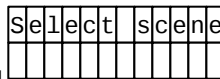
4. Now press and release the button on the Outlet Adaptor Dimmer that you want to include in the scene.
5. When "Set level then hit OK" is shown in the display set the light level to the desired level using the Remote Control or by pressing the Outlet Adaptor button directly and press OK on the Remote Control to store the light level.
6. Continue to the next Outlet Adaptor Dimmer to be included in the scene and repeat step 4 and 5.
7. When you have assigned all Outlet Adaptor Dimmers to be included in the scene press OK to save.
8. Press the OK button to create the scene.

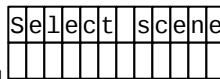
You have now programmed a scene. You can create up to 30 scenes. Note that scenes can include switched off Outlet Adaptor Dimmers.

Note: Hitting "c" will not units that have been stored in the selected scene. A unit is stored when "unit included" is shown in the display.

4.1.5 Controlling scenes

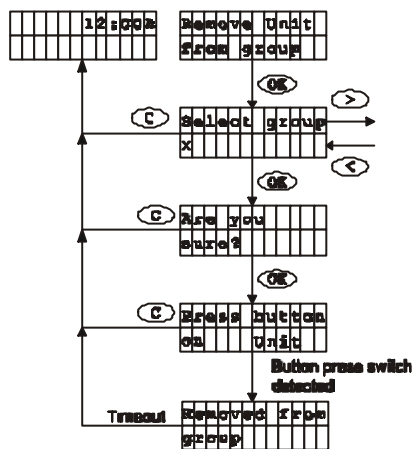
To re-call the scenes 1-6 first press the "Scene prefix button" . The Remote Control will indicate that it



is in scene selecting mode by showing  in the display. Then press the Speed button where you created your lighting scene. For scenes 7-32 press the Scene prefix button and use the Navigation buttons to select the desired scene. Press the OK button to activate the scene. Note from the scene mode you can only activate/turn on a scene. To turn off a selected scene you must turn off the individual lights or groups of lights as you normally would from the group mode. (See section 4.1.1. for help to create a group.)

4.1.6 Remove Outlet Adaptor from group/scene

You can remove an Outlet Adaptor Dimmer or High Power from a group/scene by doing the following:



Clear cancels the current selection.
Arrows only work if more than one group/scene exists.

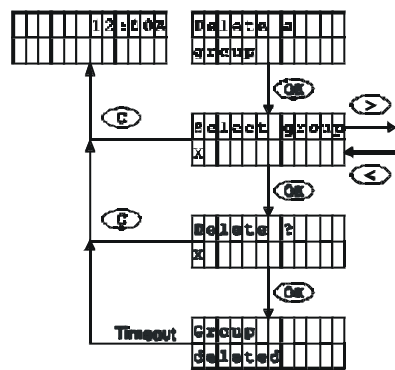
1. Enter the Group Menu
2. Go to "Remove switch from group" using the Navigation buttons and press OK
3. Select the group (number/name) from which you want to remove the Outlet Adaptor Dimmer or High Power. Press OK.
4. Press OK again if you are sure you want to remove an Outlet Adaptor Dimmer or High Power from the group.
5. Press the Outlet Adaptor button on the Outlet Adaptor Dimmer or High Power you want to remove.
6. You have now removed the Outlet Adaptor Dimmer or High Power from the group

To remove an Outlet Adaptor Dimmer from a scene enter the scene menu and use same procedure as described above.

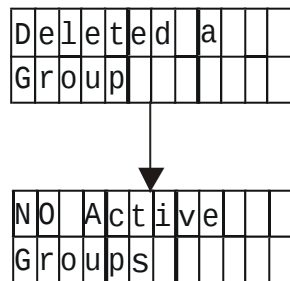
Note: If you wish to move an Outlet Adaptor Dimmer or High Power to a new location you should reset the Outlet Adaptor following the instructions in section 5.5.1. and assign the Outlet Adaptor Dimmer or High Power to the Remote Control in the new location.

To delete a group/scene follow these five steps:

1. Enter the group menu
2. Go to "Delete a group" using the Navigation buttons and press OK
3. Select the group (number/name) you want to delete. Press OK
4. Press OK again if you are sure you want to delete the group.
5. The group is now deleted



If no active groups/scene exits the following occurs.

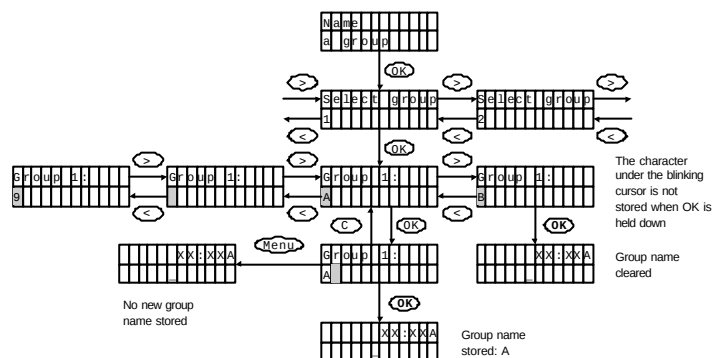


4.1.8 Name a group/scene

Assigning names makes it easier to keep track of various groups and scenes.

Name a Group

1. To name a group enter the "Group menu"
2. Go to "Name group" using the Navigation buttons. Press OK to accept the "Name group" action
3. Use the Navigation buttons to choose which group you wish to name, (e.g. Group 1, 2, 3 etc.). Press OK.



Character set

The  indicates that the OK button should be held for 2 seconds.

The characters available for naming is:
'A','B','C','D',...,'Z','0','1','2',...,'9',' '

1. Type the name using the Navigation buttons to scroll through the alphabet and press OK to select the wanted letter. You can choose letters from "A" to "Z" and numbers from "0" to "9"

- To clear a letter press Cancel 
 - To edit a name use Cancel  to clear the name then enter the new name
 - For space; scroll to the end of the alphabet
2. When you finished spelling the name, press the OK button for a few seconds to store the name. The character under the cursor is not stored when OK is held down
 3. You have now named Speed button 1.

Try to press the Speed button 1 and notice the new name on the display.

Name a Scene:

To name a "Scene" follow the same procedure as for naming a "Group", but use the "Scene menu" instead of the "Group menu".

4.2 All ON and All OFF

All ON/OFF turns all connected lights on or off with the touch of one button in case you come home late or hear noises in the middle of the night.



1. Press the All ON button  to turn all the connected Outlet Adaptor Dimmers and/or Outlet Adaptors High Power ON.
2. Press the All OFF button  to turn all the connected Outlet Adaptor Dimmers and/or Outlet Adaptors High Power OFF.

Both commands will be confirmed in the display. Note that you can configure the ALL ON / ALL OFF functionality to exclude one or more Outlet Adaptor Dimmers and/or Outlet Adaptors High Power. See the "Set-Up" section for this feature.

Pressing the "All ON" button will show this display

T	u	r	n	i	n	g			O	n
A	l	l		U	n	i	t	s		

 and "All

OFF" will result in

T	u	r	n	i	n	g			O	f	f
A	l	l		U	n	i	t	s			

This display will be shown for the duration of the acknowledgement, which for larger set-ups can be a while.

If the transmission fails either

A	l	l		O	n					
f	a	i	l	e	d	!				

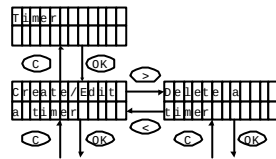
 or

A	l	l		O	f	f				
f	a	i	l	e	d	!				

 will be shown until the Remote Control powers down or you press a button.

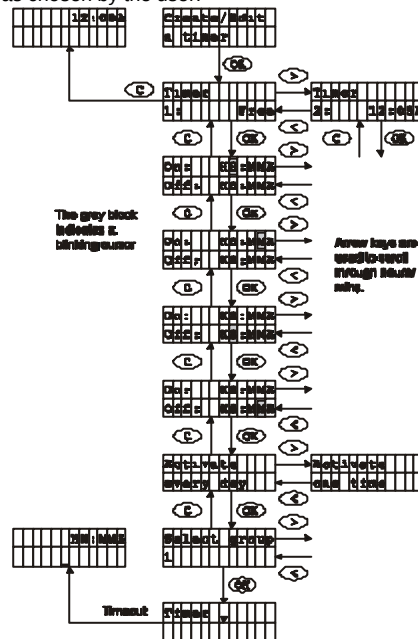
4.3 Timer

By applying a timer to a specific group you can preset the time when a lamp or electrical appliance (or group of lamps and appliances) should turn on and off. You might even want to ensure that the kids TV turns off at a certain time ...



4.3.1 Create/Edit a timer

There are eight timers available that can be assigned to one of the existing groups as chosen by the user.



Creating a timer requires the clock has been set on the Remote Control (See "Set-Up commands").

1. Press the Menu button.
2. Go to "Timer" using the Navigation buttons and press OK to access the sub-menu.
3. Go to "Create a timer" using the Navigation buttons and press OK.
4. Select a Timer number (1-8) using the Navigation buttons and press OK.
5. Set the start time of the Timer. The gray block indicates a blinking cursor. Use the Navigation buttons to scroll through hours and minutes. Press OK to confirm.
6. Set the end time using the Navigation buttons. Press OK to confirm.
7. Now select if the Timer should be recurring (every day) or just once. Press OK.
8. Select the group (number/name) you wish to install the timer.
9. The timer has been installed and the text "Timer created" is shown in the display.

Now the Remote Control will turn the group ON/OFF at the times you've just preset.

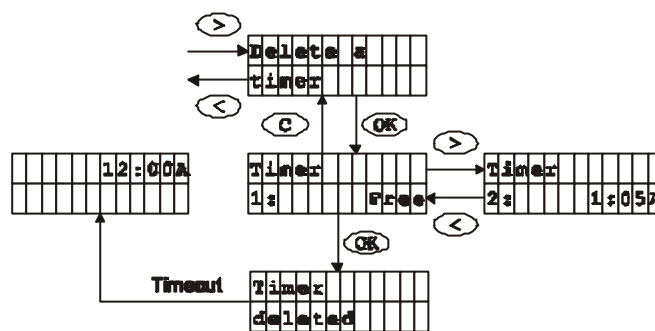
Note: If an existing timer is selected that timer will be edited. The time indicated when selecting a timer is the start time of that timer.

Pressing the clear button will cancel the editing and leave the timer as it was.

If a group is named the group name will be shown.

4.3.2 Delete timer

When a timer is no longer needed it can be deleted using "Delete a timer" menu.

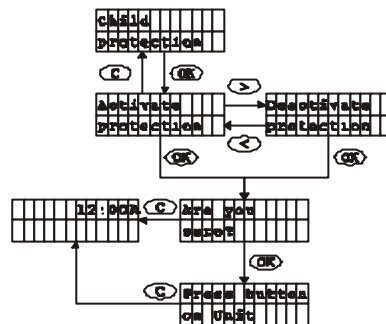


1. Enter the Timer Menu
2. Go to "Delete a timer" and press OK
3. Select the Timer you wish to delete and press OK
4. The Timer is deleted and the text "Timer deleted" is shown in the display

4.4 Child Protection

Child Protection is a unit feature that protects against unintended use of a unit for this feature to work the unit must support it.

4.4.1 Activate Child protection



Activate Child protection

1. Press the menu-button.
2. Go to "Child Protection" using the Navigation buttons. Press OK to access the sub-menus.
3. Scroll to "Activate protection" using the Navigation buttons. Press OK.
4. Press OK again if you are sure you want to activate Child protection.
5. Now press the Outlet Adaptor button on the Outlet Adaptor Dimmer or High Power you wish to activate the Child Protection on.
6. You have now activated the Child Protection and the text "Switch lock activated" will be shown in the display.

You can only turn the Outlet Adaptor Dimmer or High Power on or off by pressing the Outlet Adaptor button quickly three times in a row.

If a switch button is pressed you will get either:

U	n	i	t							l	o	c	k	
a	c	t	i	v	a	t	e	d						

U	n	i	t							l	o	c	k	
d	e	a	c	t	i	v	a	t	e	d				

or
depending on which of the two options you
selected.

4.4.2 Deactivate Child protection

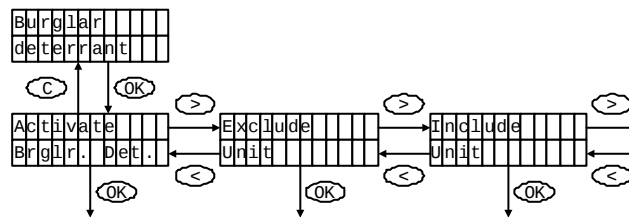
1. Press the menu-button.
2. Go to "Child Protection" using the Navigation buttons. Press OK to access the sub-menus.
3. Scroll to "Deactivate protection" using the Navigation buttons. Press OK.
4. Press OK again if you are sure you want to deactivate the Child protection.
5. Now press the Outlet Adaptor button on the Outlet Adaptor on which you want to deactivate the Child Protection on.
6. You have now deactivated the Child Protection and the text "*Unit lock deactivated*" will be shown in the display.

4.5 Burglar Deterrent

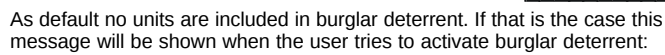
By activating the Burglar Deterrent the Remote Control will randomly turn lamps and electrical appliances connected to an Z-Wave enabled Outlet Adaptor Dimmer and/or High Power on and off during in the time interval set by the user in the customize time menu and hereby simulate activity in the house. By default **no** Outlet Adaptors are included in the "Burglar Deterrent mode" therefore the first step is to include the Outlet Adaptors that should be randomly activated/deactivated by the Burglar Deterrent.

Please Note before you begin using the burglar deterrent function:

1. When the Burglar Deterrent period ends or is deactivated by the user, the Remote Control will turn OFF all the Outlet Adaptors it currently has marked as activated. This may include Outlet Adaptors that were already on before the Burglar Deterrent was started.
2. Because of the randomness involved, the actual start time when the Burglar Deterrent activates the first Outlet Adaptor will vary from the start time with +/-15 minutes.
3. After burglar deterrent has activated the first Unit it will make sure that at least one Unit is on during the burglar deterrent period.
4. If only one Unit is included in burglar deterrent this Unit will be turned on when burglar deterrent activates the first time and not be turned off until burglar deterrent ends. This is a result of 3.
5. When the end time is reached it will take form 0 to 59 minutes before it turns off the nodes it activated.
6. Burglar deterrent information is only stored in the remote.



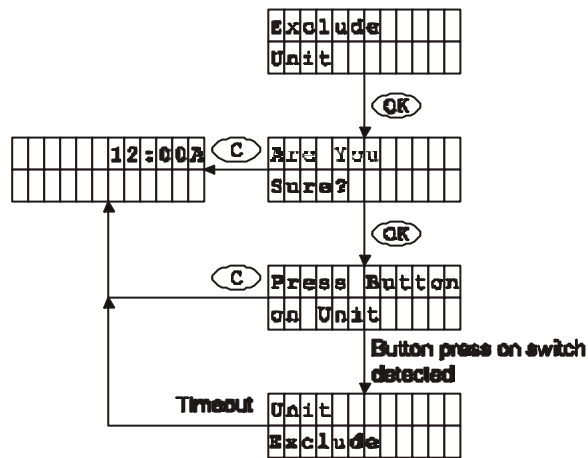
Activating burglar deterrent will take the user through time period customisation and put the remote into a special mode where it will stay unit burglar deterrent is cancelled.



SYLVANIA Z-Wave Lighting and Appliance Control System Manual

4.5.2 Exclude Unit

An included Unit can be excluded once again using this menu. Note that by default no Units are included in the burglar deterrent mode.



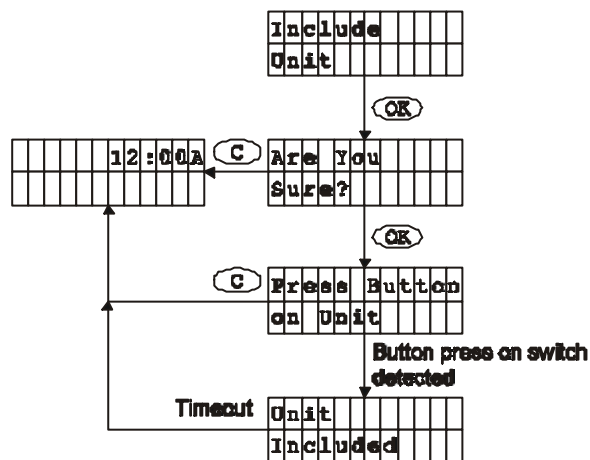
Exclude Outlet Adaptor

Follow this procedure to exclude an Outlet Adaptor from the Burglar Deterrent.

1. Enter the "Burglar Deterrent menu"
2. Go to "Exclude Unit" using the Navigation buttons and press OK
3. Press OK again if you are sure you want to exclude the Outlet Adaptor
4. Now press and release the Outlet Adaptor button on the Outlet Adaptor you wish to exclude from the Burglar Deterrent
5. You have now excluded the Outlet Adaptor from the Burglar Deterrent and the text "Switch Unit" is shown in the display

4.5.3 Include Unit

When first activating burglar deterrent the Units that the user wants to use should be included using this menu. In addition an excluded Unit can be included once again using this menu.



Add Outlet Adaptor to Burglar Deterrent

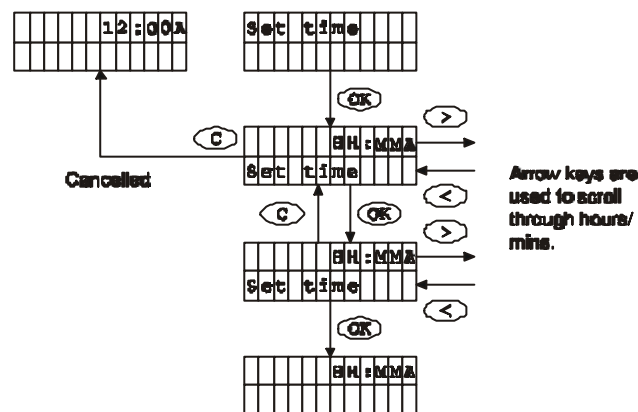
1. Enter the "Burglar Deterrent menu"
2. Go to "Include switch" using the Navigation buttons. Press OK
3. Press OK again if you are sure you want to include the Outlet Adaptor in the Burglar Deterrent
4. Now press and release the Outlet Adaptor button on the Outlet Adaptor (Dimmer or High Power) you wish to include in the Burglar Deterrent.
5. You have now included the Outlet Adaptor in the Burglar Deterrent.

5 Set-up Commands

The set-up menu is used to access system functions. The layout is as follows:



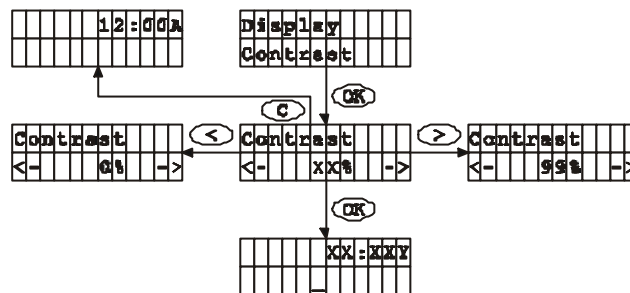
5.1 Set Clock



Set clock

1. Press the Menu button.
2. Go to "Setup" using the Navigation buttons and press OK to access the submenu.
3. Go to "Set time" using the Navigation buttons and press OK.
4. Use the Navigation buttons to scroll through hours and minutes and press OK to confirm.
5. You have now set the time

5.2 Adjust the display contrast



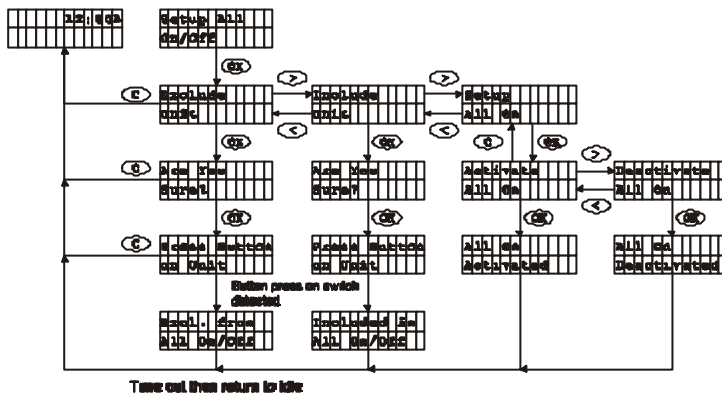
Adjust the display contrast

1. Press the Menu button
2. Go to "Display contrast" using the Navigation button and press OK to access the submenu.
3. Use the Navigation buttons to adjust the contrast in the display. Press the right Navigation button to increase the contrast in the display. Press the left Navigation button to reduce the contrast.
4. Press OK when you reach the contrast level you desire.

"C" cancels the contrast adjustment and returns to idle. Default contrast is 50%, which is restored whenever the batteries have been removed.

5.3 Setup All ON/OFF

Using this menu it is possible to customize the way All ON/OFF works. Outlet Adaptors can be included or excluded from all ON/OFF commands (Outlet Adaptors are by default included the first time they are added to the network)



5.3.1 Exclude or Include an Outlet Adaptor in All ON/All OFF functionality

1. Press the Menu button
2. Go to "Set-up All ON/OFF" using the Navigation button and press OK to access the submenu.
3. Using the Navigation button you can chose to "Exclude Unit" or "Include Unit".
4. Press the OK button to "exclude" or "include" an Outlet Adaptor.
5. Now press and release the Outlet Adaptor button on the Outlet Adaptor you wish to exclude or include in the All ON/ All OFF function. The display will confirm with "Excl. from All ON/OFF" or "Included in All ON/OFF".
6. You have now excluded or included the Outlet Adaptor from the All ON/OFF function.

5.3.2 Activate/deactivate the All ON function

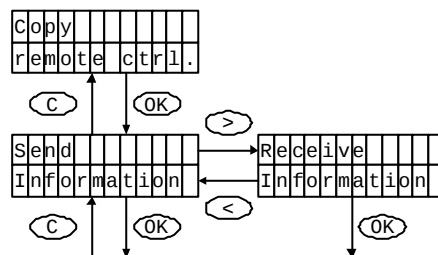
1. Press the Menu button
2. Go to "Setup All ON/All OFF" using the Navigation button and press OK to access the submenu.
3. Go to "Setup All ON" and press OK
4. Using the Navigation button you can chose to "Activate All ON" or "Deactivate All ON"
5. Press OK to activate or deactivate the All ON function
6. You have now activated or deactivated the All ON function and the text "All ON Activated" or "All ON Deactivated" is shown in the display.

5.4 Add new remote Control to system.

You can have more then one Remote Control in your home for the same-e.g. one in each of the rooms you use the most.

There are two options. If you want an exact copy of the master Remote Control including groups, scenes, names, and settings, "Identical copy" should be selected. If you want to create groups, scenes and names from scratch " Only system information" should be selected.

The one Remote Control you already have programmed will be the "Master Remote Control" and the one you wish to transfer the information to will be the "Slave Remote Control". All "SLAVE" remotes can be identified by an "underscore line" shown in the bottom left hand corner of the LCD screen.



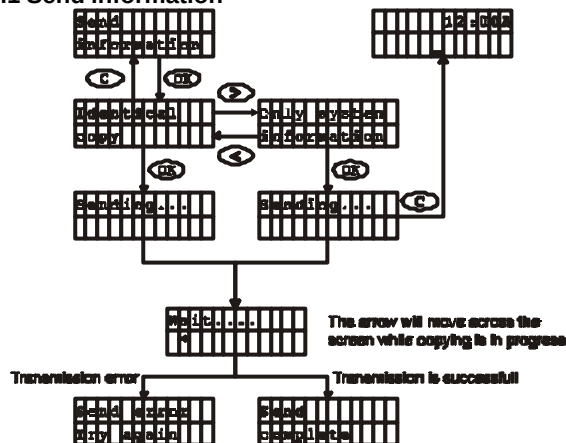
A replication of a remote is done by :

1. Select "Receive information" on the controller which should receive the information (i.e. the Secondary controller)
2. select "Send information" and either "identical copy" or "Only system information" on the remote that is to send the information (i.e. the Primary controller).
3. Wait until transmission is completed and both the controllers' ends.
4. If a transmission error occurs. Please repeat from 1.

Considerations:

1. It is important to note that all information on the receiving remote will be deleted before any information is received.
2. Burglar deterrent and timer information is not copied to the slave remote.
3. Slave remotes can not be used to add newly acquired or reset Units to the network.
4. If nodes are moved physically it should be done as mentioned in 5.5.1 and the replication should be repeated.
5. New nodes added to the network is not automatically known by the slave remotes, but has to be transferred to it by repeating replication, or by adding the newly created node to a group or scene on the slave remote(before it is known by it).

5.4.1 Send information



Please note the following before replicating the master Remote Control.

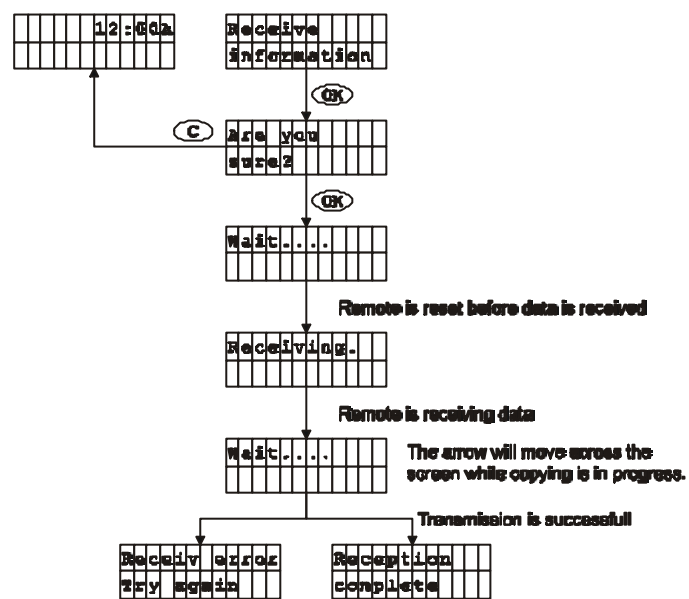
1. All existing data on the receiving or "Slave Remote Control" will be overwritten by the new data.
2. Burglar Deterrent and Timer information is not copied to the Slave Remote Control.
3. Slave Remote Controls **can not** be used to add newly acquired or reset Outlet Adaptors to the network
4. If a Slave Remote Control is added as one of the first 64 Outlet Adaptors. It will take up a node thus limiting the number of Outlet Adaptors that can be controlled from the Remote Control.

How to copy the Master Remote Control to a Slave Remote Control:

1. To add a new (Slave) Remote Control to the system press the Menu button on the (Master) Remote Control you want to copy from.
2. Go to "Set-up" using the Navigation buttons and press OK to access the submenu.
3. Go to "Copy remote ctrl." Using the Navigations buttons and press OK
4. Select "Send information" and press OK
5. Choose if you want to make an "Identical copy" or "Only system information". Press OK. Press OK again to confirm and send the information.
6. Now enter the "Set-up" menu on the secondary (new) Remote Control and go to "Copy remote ctrl."
7. Select "Receive information" and press OK
8. Press OK again to receive the information from the primary Remote Control. This may take up to a few minutes.

You have now added a new Remote Control to your Home Control System. An underscore in the left bottom corner of the display will indicate that this is a Slave Remote Control.

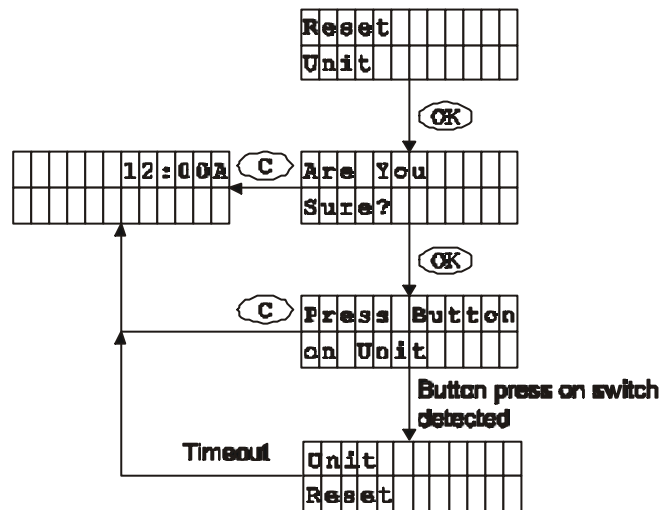
5.4.2 Receive information



5.5 Reconfiguring the system

In case you want to make changes or even start all over again it is easy to reset your Lighting and Appliance Control System.

5.5.1 Reset an Outlet Adaptor Dimmer or Outlet Adaptor High Power

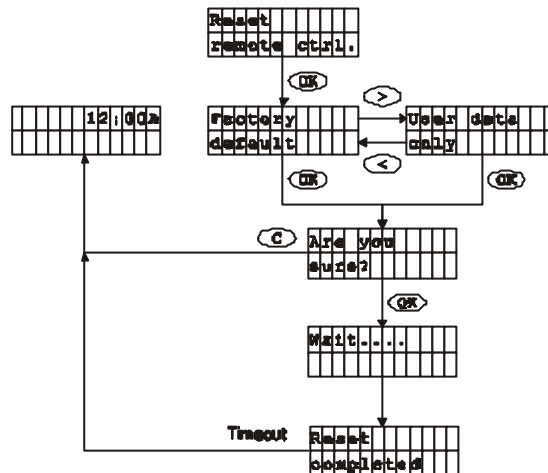


Reset the Outlet Adaptor

If an Outlet Adaptor is to be moved to a new position or added to a new network, it should be reset before doing so. This is done using this menu.

1. Press the Menu button.
2. Go to "Setup" using the Navigation buttons and press OK to access the submenu.
3. Go to "Reset Unit" using the Navigation buttons and press OK.
4. The display will now read "Press button on switch".
5. Press the Outlet Adaptor button on the Outlet Adaptor you want to reset.
6. The display will confirm when the Outlet Adaptor is reset.

5.5.2 Reset Remote Control



Reset the Remote Control

The Remote Control can be reset in two different ways. User data only and factory default:

- User data only, will only reset groups, scenes and names. All Units are still known by the protocol so they can be used for routing.
- Factory default will clear the Remote Control for all information. also on a protocol level. Thus is should be used with extreme care.

Use the following procedure to reset the Remote Control:

1. Press the Menu button.
2. Go to "Setup" using the Navigation buttons and press OK to access the submenu.
3. Go to "Reset Remote Ctrl." using the Navigation buttons and press OK.
4. Select "Factory default" or "Only user data" . Press OK.
5. Now the display will ask "Are you sure?" . Press OK if you want to reset the Remote Control.
6. The display will confirm when the Remote Control is reset.

Important Notice: When moving the Outlet Adaptor (Dimmer/High Power) it is important to reset the Outlet Adaptor that is to be moved, and include it again once it has been placed at the new location. Otherwise the routing table stored by the Remote Control will not be updated, and the Remote Control will potentially attempt to use routes that no longer exist.

6

Operation Mode

6.1 Operation display

								1	2	:	0	0	A

When the clock is displayed the Remote Control is in operation mode. It is from this mode the Outlet Adaptors (Dimmer and High Power) can be controlled through either groups or scenes.

6.2 Slave Remote Control indication

								1	2	:	0	0	A

When an underscore is shown in the left bottom corner the remote is a Slave Remote Control with the limitations mentioned elsewhere.

6.3 No active group indication

If no active groups/scene exists the following occurs:

N	o		a	c	t	i	v	e					
g	r	o	u	p	s								

6.4 Scene indication

When pressing the scene prefix button (heart) from operation mode the display will change to:

S	e	l	e	c	t		s	c	e	n	e		

This indicates that the next key press will be used to control a scene (if any available).

6.5 Low battery indication

This message indicates that it is time to replace the batteries. It will go away when the batteries have not been replaced.

					12:00A					
C	h	a	n	g	e	b	a	t	t	.

7 Product Support

Product support:

VTC SERVICE & MANUFACTURING CO., INC.
16988 GALE AVENUE, CITY OF INDUSTRY, CA
91745-1805 Telephone(866)342-5733 between 8:00am
and 4:30 pm Pacific standard Time.

8 Troubleshooting

Errors you might encounter	Reasons	What you do
<i>The Remote Control</i>		
You press and hold the Speed button and press the Outlet Adaptor button to include a new Outlet Adaptor - but nothing happens	1. The Outlet Adaptor belongs to a different system than yours.	2. Reset the Outlet Adaptor. See Set-up menu section 5.5.1.
You keep receiving "Group Failed" or "Scene failed" on the display when you try to turn the "lights" on or off.	One of the following reasons: 1. You are too far away from one or several of the Outlet Adaptor you're trying to control 2. One or several Outlet Adaptors you are trying to control are disconnected from power.	1. Check the distance to the nearest Outlet Adaptor. 2. Check if the power to all the Outlet Adaptors is turned on. If you want to disconnect an Outlet Adaptor remember to reset it before disconnecting to prevent error messages. See Set-up menu section 5.5.1.
The display on the Remote Control goes blank after some time.	To save power the display will turn off automatically after 5-10 seconds. If you're in the menu the power will turn off after 1 minute without activity.	Press any button and the power in the display switches on again.

A group suddenly includes an Outlet Adaptor that you didn't assign to the Remote Control yourself.	As you dim your group someone else presses the button on an Outlet Adaptor that is not part of the group you are dimming (either to turn on or off the light/appliance directly on the Outlet Adaptor). While dimming the Remote Control is open for assigning new Outlet Adaptors why the Outlet Adaptor is included in the group you are dimming.	To remove the Outlet Adaptor from the group please refer to section 4.1.6 "Remove Outlet Adaptor from group/scene".
<i>Outlet Adaptor Dimmer / Outlet Adaptor High Power</i>		
You want to turn the Outlet Adaptor on or off by pressing the Outlet Adaptor button, but nothing happens.	The Outlet Adaptor is probably Child Protected.	Press the Outlet Adaptor button three times quickly to turn on or off the Outlet Adaptor. To disable the Child Protection scroll to "Child Protection" in the menu and go to "Deactivate protection". Press OK and then press the Outlet Adaptor button on the Outlet Adaptor you wish to deactivate the Child protection. The Child Protection is now deactivated.

SYLVANIA Z-Wave Remote Control

Features

- Wireless control of Outlet Adaptors and Wall Switch Modules
- Switches on/off and dims your lamps and appliances
- Timer, Child Protection and Burglar Deterrent
- Can create 64 groupings of your lamps as well as 32 different scenes
- Can operate up to 64 Outlet Adaptors and Wall Switch Modules
- User-friendly menu based operation



Specifications

Technical Specifications:

Power	Two AA batteries
Signal	908.42 MHz USA
LCD Display	2 x 12 Character
Range	100 feet (line of sight between the Remote Control and the nearest Outlet Adaptor or Wall Switch)

Physical Specifications:

Dimensions	4,7" L x 2,8" W x 1,2" H
Weight	Approx. 8 oz.
User Interface	Button Keypad
Operating Temperature	32 – 105°F (0 – 40° C)
Environment	Only for indoor use

SYLVANIA Z-Wave Outlet Adaptor Dimmer

Features

- Plugs directly into the power outlet in the wall
- Controls one or more lamps either directly on the module or wirelessly via the remote control
- Automatic repeater function of commands between Outlet Adaptors (Dimmers and High Power) ensures full home coverage



Specifications

Technical Specifications:

Power	120 VAC, 60 Hz USA
Signal	908.42 MHz USA
Maximum Load	300 W
Range	100 feet (line of sight between the Remote Control and the nearest Outlet Adaptor or Wall Switch)
Connectability	Can only be connected to incandescent lamps and low - tension halogen lamps with mechanic iron core transformers. Do not connect to low energy light bulbs, fluorescent lights, and low - tension halogen lamps with electronic transformers.

Physical Specifications:

Dimensions	4,7" L x 2,44" W x 1,54" H
Weight	Approx. 5 oz.
Operating Temperature	32 – 105°F (0 – 40° C)
Environment	Only for indoor use

SYLVANIA Z-Wave Outlet Adaptor High Power

Features

- Plugs directly into the power outlet in the wall
- Controls one or more electrical appliance either directly on the module or wirelessly via the remote control
- Automatic repeater function of commands between Outlet Adaptors (Dimmers or High Power) ensures full home coverage



Specifications

Technical Specifications:

Power	120 VAC, 60 Hz USA
Signal	908.42 MHz USA
Maximum Load	1800 W USA
Range	100 feet (line of sight between the Remote Control and the nearest Outlet Adaptor or Wall Switch)
Connectability	Do not connect electrical appliances over 1800 W in USA

Physical Specifications:

Dimensions	4,7" L x 2,44" W x 1,54" H
Weight	Approx. 5 oz.
Operating Temperature	32 – 105°F (0 – 40° C)
Environment	Only for indoor use