

OPERATING MANUAL SCENE CONTROLLER HKZW-SCN01-V1.0

Included as a secure device
 (1) Insert the LIR2450 battery.
 (2) Set the Z-Wave network main controller into learning mode
 (see Z-Wave network controller operating manual).
 (3) Pressing and holding the Z-button for 3 seconds.
 (4) If the inclusion is successful, the LED will blink in green less than for 5 seconds and then keep on for 15 seconds.

TIP:
 If you want your Scene Controller to be a security device that uses secure/encrypted messages to communicate in a Z-Wave network, then a security enabled Z-Wave controller is needed.

IV. REMOVING FROM Z-WAVE NETWORK

To remove the Scene Controller from the Z-Wave network:
 (1) Insert the LIR2450 battery.
 (2) Set the Z-Wave network main controller into excluding mode (see Z-Wave controller operating manual).
 (3) Triple click the Z-button, if the exclusion is successful, LED will blink in orange for less than 5 seconds and then keep on for 3 seconds.

V. RESET SCENE CONTROLLER

Reset procedure clears the Scene Controller's memory, including Z-Wave network information.

NOTE:
 Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.
 Pressing and holding the Z-button for 20 seconds. Release the button after 20 seconds, LED will keep in yellow for 3 seconds. Scene Controller will be reset to factory defaults if you short press the button within this 3 seconds.

VI. LOW BATTERY ALARM FUNCTION

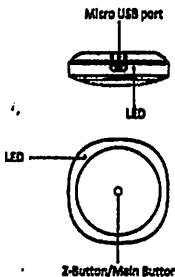
Scene Controller will send battery report to the lifeline group when Z-Button is triggered during the sleep mode. If the battery level of the Scene Controller is less than 20%, the Scene Controller will keep 3 times when the button is pressed.

The Scene Controller is a slave product that is wireless, portable and rechargeable. It can control a Z-Wave device, such as smart plug, smart dimmer through a Z-Wave gateway. You can also activate a scene like sleep scene, movie scene and entertainment scene with it.

The features list:
 (1) Z-Wave Plus certified for wide compatibility (500 serials product).
 (2) Support remote control anywhere and anytime.
 (3) The battery is rechargeable.
 (4) The battery will run for half a year per single charging.
 (5) Support low battery alarm with a buzzer.
 (6) Support communication failure alarm with a buzzer.
 (7) Support firmware OTA.

I. GENERAL INFORMATION ABOUT SCENE CONTROLLER

1. Product layout



II. SPECIFICATIONS

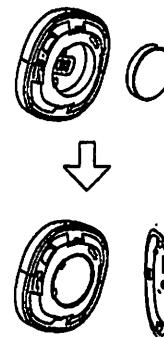
Power supply:	Single LIR2450 3.6V Battery
Storage environment:	-10~50°C 0W~85%
Operational temperature:	0~40°C
Radio protocol:	Z-Wave
Radio frequency:	868.42MHz (EU) 908.42MHz (US) 921.42MHz (AU)
Range:	More than 100m outdoors About 30m indoors (depending on building materials)
Dimensions:	50*50*16mm
Working current:	38mA
Standby current:	2uA

III. INSTALLATION

Open the cover:
 Open the cover, as the figure below shows.



Insert your battery:
 Insert your battery and close the cover, as the figure below shows.



III. Z-WAVE NETWORK INCLUSION

Scenes Controller can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Included as a non-secure device

- (1) Insert the LIR2450 battery.
- (2) Set the Z-Wave network main controller into learning mode (see Z-Wave network controller operating manual).
- (3) Triple click the Z-button.
- (4) If the inclusion is successful, the LED will blink in blue less than for 3 seconds and then keep on for 15 seconds.

Release allows Scene Controller sends:
 Central scene notification command to the nodes associated with group 1.
 Multilevel stop level change command to the nodes associated with group 3.

XIII. ADVANCED CONFIGURATION

Scene Controller offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

Parameter No.42 Setting the duration value of the sent commands, switch multilevel Set and switch multilevel start level change. 0~255
 Default setting: 255
 Parameter size: 1[byte]

Parameter No.234 Enable/disable the configuration command Lock/unlock all configuration parameters.
 0 - Unlock.
 1 - Lock.

Default setting: 0
 Parameter size: 1[byte]

Parameter No.235 Reset Scene Controller
 Reset the scene or remove from the Z-Wave network
 Value: 1431635763
 Default: 1
 Parameter size: 4[bytes]
 Reset factory default settings and removed from the Z-Wave network.
 Value: 83
 Default: 1
 Parameter size: 1[byte]

Parameter No.236
 Reset the values of the configuration command to default setting.
 Value: 0
 Default: 1
 Parameter size: 1[byte]

XIV. NOTES FOR OTA
 You may need the Over the Air (OTA) feature for the products firmware update. Your Scene Controller can not be used after OTA. In such a case, you need to activate the product by pressing and holding the Z-button until the led turns on, this procedure may take you about 10 seconds. After these steps, your Scene Controller will be usable.

XV. FCC NOTICE (for USA)
 This device complies with part 15 of the FCC 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.

VI. COMMUNICATION FAILURE ALARM FUNCTION

The Scene Controller will beep one time when the communication between the Scene Controller and any one of the controlled device is failed.

VII. TESTING Z-WAVE NETWORK RANGE

Scene Controller's LED indicator can signal its communication quality with the Z-Wave main controller.

To start testing:
 Press and hold the Z-button for 11 to 15 seconds, the LED will keep on in purple for 3 seconds, it will enter testing mode if you short press the Z-button during these 3 seconds.
 Blink in green -Scene Controller establish a direct communication with the main controller and still under checking.
 Keep green - The green light should last about 2 seconds, which means the communication is successful.
 Blink in orange -Scene Controller can communicate with the main controller in intermediate radio transmit power level, and still under checking.
 Keep orange - The communication quality is moderate.
 Keep Red - The communication is failed.

TIP:
 1. This function works only when Scene Controller has been included into a Z-Wave network.
 2. Click the Z button to exit the test.

X. ASSOCIATION

Association allows the Scene Controller to control another Z-Wave device directly, such as Smart Switch, Smart Dimmer, etc. Scene Controller supports three association groupings, every group relates to a specific button action. View details in the follow section of "XI. BUTTON FUNCTION".

Group 1 allows Scene Controller sends the central scene notification command and basic set command.
 Group 2 allows Scene Controller sends the basic set command.
 Group 3 allows Scene Controller sends switch multilevel set, the multilevel start level change and multilevel stop level change command.

TIP:
 1.The max number of associated nodes of all these 3 groups is 5.
 2.Association allows for direct transmission of control command between devices and takes place without the participation of the main controller.

XI. WAKE UP

Wake up interval:
 Available settings: 0
 Default setting: 0
 Pressing and holding Z-Button for 3 seconds. Led will turn to green, which means Scene Controller has successfully sent the wake up notification oct.

NOTE:
 The Interval time must be set to 0. The wake up notification will not wake the Scene Controller, only the action of the button can you wake the Scene Controller.

XII. BUTTON FUNCTION

Scene Controller offers three button action types, including short press, hold down and release.
 Short press allows Scene Controller sends:
 Central scene notification command to the nodes associated with group 1.
 Basic set command to the nodes associated with group 2.
 Switch multilevel set command to the nodes associated with group 3.
 Hold down (more than 1 second less than 20 seconds) allows Scene Controller sends:
 Central scene notification command to the nodes associated with group 1.
 Multilevel start level change command to the nodes associated with group 3.