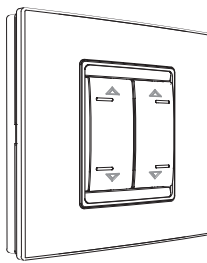


OBLO Living Battery Scene Controller BC100

BSC-4ST-ZB



USER MANUAL



Congratulations and thank you for purchasing OBLO Living Battery Scene Controller. Below you will find useful operating guidelines.

DEVICE DESCRIPTION

OBLO Living Battery scene controller (Illustration 1) is wirelessly controlled electronic switch that combines features of setting up ambiance scenes and temperature measurement. The device is compliant with ZigBee Home Automation (ZHA) 1.2 and is guaranteed to function with any ZHA 1.2-compliant system. In addition, it allows pairing with any device supporting ZHA binding feature.

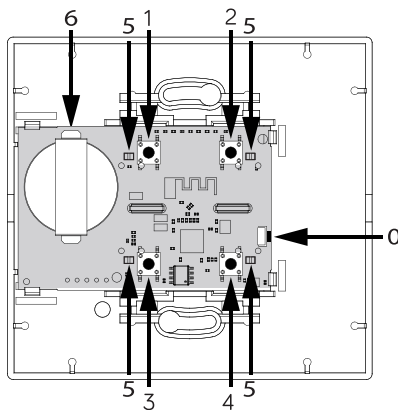


Illustration 1

0 - Main button,
1 - Command button 1, 2 - Command button 2,
3 - Command button 3, 4 - Command button 4,
5 - Led indicators, 6 - Battery housing

OBLO Living Battery scene controller is battery operated device (battery type CR2450).

BATTERY ACTIVATION

Battery scene controller has pre-installed battery, which needs to be activated by gently removing the protective film from the battery connector. In case you need to install new battery, gently open device housing and place the battery as shown in Illustration 2.

NOTE: When inserting battery, make sure the polarity is correct!

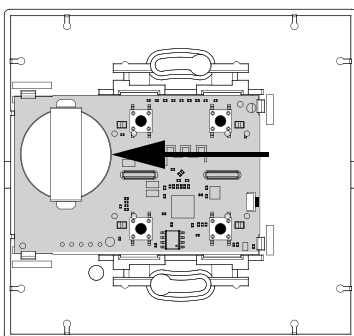


Illustration 2

MODES OF OPERATION

The device supports four modes of operation:

- Normal mode
- Scene setup mode
- Pairing mode
- Key offset mode

NOTE: Scene setup mode, pairing mode and key offset mode can be active only in cases when Battery scene controller is a part of standalone network (without home automation gateway as a central device).

Normal mode

After activation, the device enters normal mode. In this mode the end user is able to:

- Join Battery scene controller into existing ZigBee network
- Perform factory reset
- Change mode of operation

Scene setup mode

In this mode, the end user is able to define ambiance scene by following next steps:

1. Press main button 5 times in order to change mode of operation from normal to scene setup mode. During the procedure, all LED indicators will blink green 5 times
2. All devices that will be part of the scene should be switched to identify mode according to manufacturer's instructions. Set desired state on each device (e.g. light on) for the scene
3. Press one command button on the Battery scene controller in order to assign it to defined scene
4. After successful operation, all LED indicators will blink red 5 times, which means that device switched back to normal mode

NOTE: When Battery scene controller is part of home automation gateway's network, then ambiance scenes can be defined by using gateway and client application (in accordance with manufacturer's instructions).

Pairing mode

In this mode, the end user is able to pair Battery scene controller with other device which supports ZHA binding feature. This procedure is explained in a separate section of this document.

Key offset mode

In this mode, the end user is able to change command buttons and main button's ID, in order to set up to 10 different scenes for one command button, which means that one Battery scene controller can support up to 40 different scenes.

Command buttons can have 40 different ID numbers

(10 per button) and main button can have 10 ID numbers (from 0 to 9).

To set different ID numbers for one command button, please follow next steps:

1. Press and hold main button for longer than 3 seconds in order to change mode of operation from normal to key offset mode. During the procedure, all LED indicators will blink green 3 times
2. To operate with command button ID greater than 4, use the formula: command button ID = 4 × (main button ID) + (1,2,3 or 4), e.g. if we want to operate with command button ID 13, 14, 15 and 16 instead of 1, 2, 3 and 4 then our desired main button ID will be 3 (initially main button ID is 0)
3. When key-offset has been set, user can operate with appropriate command button ID numbers until factory reset is performed

PREPARATION

After activating it for the first time Battery scene controller is not associated with any ZigBee network. In order to enable proper functioning of the device, it has to be added to the existing ZHA 1.2-compliant system or paired with any device supporting ZHA binding feature.

BATTERY SCENE CONTROLLER AS A PART OF EXISTING ZHA 1.2-COMPLIANT SYSTEM

In order to add Battery scene controller to existing ZHA 1.2-compliant system please follow next steps:

1. On the gateway's side initiate device inclusion procedure according to gateway manufacturer's instructions
2. On the Battery scene controller press main button once to start joining procedure. During joining procedure one LED will blink red
3. After successful joining, LED will blink green no longer than 3 minutes

PAIR BATTERY SCENE CONTROLLER WITH OTHER DEVICE

In order to pair Battery scene controller with other device supporting ZHA binding feature please follow the procedure below. Since Battery scene controller is initiator device, the procedure assumes that pairing device has a role of target device. For additional information about other pairing options please contact our technical support at support@obloiving.com

1. Create ZigBee network on pairing device according to manufacturer's instructions
2. Add Battery scene controller to pairing device's ZigBee network:
 - 1) On pairing device start joining procedure according to manufacturer's instructions
 - 2) On Battery scene controller press main button once in order to start joining procedure. During the

USER MANUAL

procedure, one LED indicator will blink red

- 3) Upon successful joining there should be LED indication on target device (see manufacturer's instructions)
3. Pair Battery scene controller as an initiator with the target device:
 - 1) On Battery scene controller press main button 7 times in order to start pairing procedure. During operation, all LED indicators will blink green 7 times
 - 2) Switch target device to identify mode according to manufacturer's instructions
 - 3) On Battery scene controller choose one command button and press it in order to pair it with target device
 - 4) Upon successful pairing the end user is able to control target device from Battery scene controller. On Battery scene controller all LED indicators will blink red 7 times, which means that the device switched back to normal mode

INSTALLATION

Battery scene controller can be placed anywhere in the room or mounted on the wall with supplied mounting screws (Illustration 3) or adhesive strips (Illustration 4). When using adhesive strips, make sure that the surface is clean.

NOTE: Test the device from desired location before permanently mounting it.

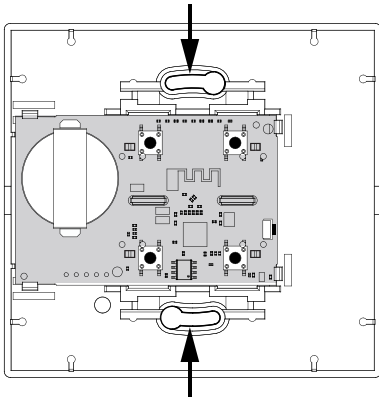


Illustration 3

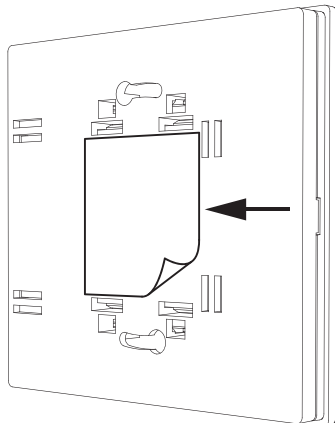


Illustration 4

FACTORY RESET

In order to restore your Battery scene controller to default factory settings please follow next steps:

1. Press main button 10 times to reset the device to factory settings
2. After successful operation, all LED indicators will light red

BUTTONS/FUNCTIONS

Mode	Button operation	Action	LED indication
NOR-MAL MODE	Main button, 1x short press	Join ZigBee network	1x blink red
	Main button, 5x short press	Enter scene setup mode	All LED indicators 5x green blink
	Main button, 7x short press	Enter pairing mode	All LED indicators 7x green blink
	Main button, 10x short press	Factory reset	All LED indicators red for 3 seconds
	Main button long press (>3 seconds)	Enter key offset mode	All LED indicators 3x green blink
	Command button, 1x short press	Activate paired device	1x blink green
	Command button, 2x short press	Activate defined scene	1x blink green
SCENE SETUP MODE	Command button long press (>1 second)	Send dimming command (in case when paired device supports dimming)	1x blink green
	Command button, 1x short press	Store scene	1x blink red
	PAIRING MODE	Command button, 1x short press	Pairing with other device

TECHNICAL DATA

Communication Protocol	ZigBee
Range	Up to 15m
Operating Temperature	-5 to 45 °C
Protection Degree	IP20
Power	1 x CR-2450 battery, pre-installed
Temperature Measurement	-5 to 45 °C; Accuracy: ~1 °C
Dimensions	W x H x D: 97.6 x 91.8 x 14 mm

ATTENTION!

- ⚠ WARNING!** For indoor use only!
- ⚠ WARNING!** Using Battery scene controller in a manner other than outlined in this document is not allowed.
- ⚠ WARNING!** When inserting the battery, make sure that the polarity is correct!
- ⚠ ATTENTION!** Always keep batteries away from open flame and high temperatures. Avoid exposure to direct sunlight!

DECLARATIONS OF CONFORMITY

Hereby, OBLO Living LLC declares that Battery scene controller is in compliance with the essential requirements and other relevant provisions of following European directives:

- Council Directive LVD (2014/35/EU)
- Council Directive EMC (2014/30/EU)
- Council Directive RED (2014/53/EU)
- Council Directive ROHS (2002/95/CE)