## **HFITUN**

## WALL TOUCH PANEL SWITCH HE-ZW-SW-5A-1 USER MANUAL V1.0

## OVERVIEW

The HELTUN 5 channel wall touch panel switch replaces an existing in-wall switch and enables manual or remote switch (On/Off) controls of lights, blinds, motors and heating systems with a maximum load of 5A for each channel

The switcher has two independent inputs for the relay channels which allows it to control systems with different power sources or to use outputs as dry contacts. Each relay can be controlled by the switcher touch buttons or independently via a Z-Wave gateway.

The panel has five sensitive capacitive touch control buttons with a two-colour (red and blue) backlight for each button. Button backlight brightness can be adjusted automatically depending on the illumination of the ambient environment or manually in the settings.

Each touch button can be configured to control any relay (from one up to five) output state in 7 different modes. The buttons also can be used as controller scene activators and the backlight can indicate the gateway mode or associated device status.

The HELTUN wall panel switch has internal air temperature, humidity and light sensors and is also equipped with built-in power consumption logic.

The device has an integrated 5th generation secure Z-Wave Plus module which allows the use of the device with a Z-Wave Home Automation system, Non secure, S0 secure, S2 unauthorized and S2 authorized inclusion modes are supported.

The switcher has 11 endpoints and 30 association groups which allow associating and control up to 90 different Z-Wave devices.

## **TECHNICAL SPECIFICATIONS**

- Front frame dimensions: 89x89x9mm Back dimensions: 53x53x28mm
- Material: Flame retardant plastic, tempered glass
- 4 frame colors: Silver, Chrome, Black, White
- 6 glass colors: White, Black, Yellow, Green, Red, Blue
- 5 sensitive capacitive touch buttons
- · Red and Blue color LED back light for each button
- 4 levels adjustable brightness for back light
- 5 channel relay output, resistive load up to 5A each
- · 2 independent inputs as relays channel output power
- Relays life time: 100,000 switches
- Internal ambient brightness sensor
- Internal temperature sensor
- - Measurement range: -30°C to +80°C
  - Accuracy: ±0.5°C
- · Internal humidity sensor
- Measurement range: 0 80%RH
- Accuracy: ±3.0%RH
- Operating temperature: -20°C +50°C
- Power supply: 110V 240VAC, 50Hz/60Hz
- Power consumption: 1.5W
- IP class: IP21
- Z-Wave Plus SDK: V6.71
- · Security: S0, S2 unauthorized, S2 authorized

#### **FUNCTIONAL SPECIFICATIONS**

- Inclusion/exclusion into/from z-wave network
  - Non Secure
  - S0 secure
  - S2 unauthorized, S2 authorized
- Independent control of each relays and LEDs
- Association control of 90 devices from network
- Temperature sensors calibration
- · Adjustable back light brightness: Auto or Manual
- · Backlight standby mode
- Power consumption logic
- Factory reset
- OTA function (Firmware update over the air).

## 7-WAVE DEVICE TYPE

GENERIC TYPE WALL CONTROLLER SPECIFIC TYPE BASIC WALL CONTROLLER

#### **Z-WAVE SUPPORTED CLASSES**

COMMAND CLASS BASIC. COMMAND CLASS ZWAVEPLUS INFO. COMMAND CLASS ASSOCIATION. COMMAND CLASS ASSOCIATION GRP INFO COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION. COMMAND CLASS MULTI CHANNEL. COMMAND CLASS TRANSPORT SERVICE.

COMMAND CLASS VERSION. COMMAND CLASS MANUFACTURER SPECIFIC COMMAND CLASS DEVICE RESET LOCALLY,

COMMAND CLASS POWERLEVEL. COMMAND CLASS SECURITY. COMMAND CLASS SECURITY 2 COMMAND CLASS SUPERVISION COMMAND CLASS CONFIGURATION COMMAND CLASS SENSOR MULTILEVEL COMMAND CLASS CENTRAL SCENE. COMMAND CLASS METER. COMMAND CLASS FIRMWARE LIPDATE MD COMMAND CLASS SWITCH BINARY

## INSTALLATION

We recommend the installation conforms to your local regulations and is undertaken by a qualified electrical engineer. We recommend installation about 1.5 metres above the floor.

# Electrical power must be switched off during all aspects of installation.

1. Remove the front cover and back plate of Source Source ~220V

the switcher from the main box. 2. Ensuring the power is off and using a small

cross head (Phillips) screwdriver connect the wires to the switcher terminals:

a) POWER is for the device lead power

source. It can be 110VAC - 240VAC b) Connect the required power source for

Relays 1, 2 and 3 outputs to terminal IN-1-3. c) Connect the required power source for Relays 4 and 5 outputs to terminal IN-4-5 d) Connect the loads to relays output terminals OUT-1, OUT-2, OUT-3, OUT-4, OUT-5

3. Making sure "TOP" is uppermost secure the back plate into the wall mounting box using the screws provided. Install the device body



by carefully aligning the top snap connectors and then pushing on the front cover with gentle pressure ensuring it snaps firmly into position all the way round.

## 4.POWER CONNECTION

Switch on the main power and the switcher will start up operating the original default factory settings (all buttons backlight will light blue).

5. Remove protective film by pulling the tab in the top right hand side.

#### DISASEMBLY

- 1 ENSURE POWER IS SWITCHED OFF AND ALL BUTTONS BACKLIGHT **ARFOFF**
- 2. To remove the device body grasp firmly and pull back from the bottom until all tabs
  - 3. Remove screws from back plate and disconnect the wires.

## **OPERATION**

The device has 5 relays, 5 touch buttons and two-color (red and blue) backlights for each button.

- 1. Each relay can be controlled by any touch button or via a Z-Waye network (Z-
- 2. Each touch button can be configured to control any relay (from one and up to five) output state in below modes: a) press the button and the relay output goes to ON state only (contacts are
- b) press the button and the relay output goes to OFF state only (contacts are
- c) press the button and the relay output inverts the state (ON to OFF or OFF to
- d) press the button and the relay output goes to ON for a specified time then changes back to OFF. This function can be used to open/close garage doors.
- blinds curtains etc. e) press the button and the relay output goes to OFF for the specified time then changes back to ON. Time can be configured from 0.5 sec to 125 sec. This
- f) When the button is held the relay output is ON, as soon as the button is released the relay output state changes to OFF.
- g) When the button is held the relay output is OFF, as soon as the button is released the relay output state changes to ON. Each touch buttons can also be used to run scenarios or modes in the connected

function can be used to switch off some security for a short time.

gateway or associated devices.

- 3. Each button backlight can be configured a) To indicate the relay output state
- b) To indicate the touch button state
- c) To indicate some mode state in the connected gateway
- d) To indicate the associated device state

It is possible to choose the light colour for each state (red for ON and blue for OFF or blue for ON and red for OFF).

If the Heltun wall touch panel switch is included in the z-wave gateway, the scene controller and 10 binary switches appear. The scene controller indicates which button was pressed, held or released and allows the running of scenes. The first 5 binary switches indicate and allow the control of the buttons backlight and the remaining 5 binary switches indicate and control the relays.

The device can be used to manage lighting systems. It allows the association (via multilevel switch command) of a dimmer and control of both turning On and Off as well as smooth up and down light dimming.

The switch can also be used to manage any motorized system e.g. garage doors. window blinds, etc. It allows to association (via basic set or multilevel switch commands) with relay switches and roller shutters by controling the opening or closing of the system. If door/window sensors are installed they can be associated with backlights as well. In this case the touch buttons will serve as controls and the backlight will indicate the actual state of the system (open or closed).

## CONFIGURATION

In order to configure the Heltun Switcher use the Z-Wave gateway or a usb stick. All configuration parameters are accessed through COMMAND, CLASS, CONFIGURATION

Description

Default Available

## PARAMETERS LIST: Parameter Parameter

1	Number	Size	Description	Value	Values
03	01	1 byte	Backlight 1 control source	1	0, 1, 2
04         1 byte         Backlight 4 control source         1         0,1,2           05         1 byte         Backlight 5 control source         1         0,1,2           06         1 byte         Relay 1 control source         1         0,1,2,3,4,5           07         1 byte         Relay 2 control source         2         0,1,2,3,4,5           08         1 byte         Relay 3 control source         3         0,1,2,3,4,5           09         1 byte         Relay 5 control source         4         0,1,2,3,4,5           10         1 byte         Click control mode for touch button 2         1         0,1,2,3,4,5           11         1 byte         Click control mode for touch button 1         1         0-6           12         1 byte         Click control mode for touch button 2         1         0-6           13         1 byte         Click control mode for touch button 3         1         0-6           14         1 byte         Click control mode for touch button 3         1         0-6           15         1 byte         Click control mode for touch button 3         1         0-6           16         1 byte         Click control mode for touch button 3         1         0-6           15	02	1 byte	Backlight 2 control source	1	0, 1, 2
05         1 byte         Backlight 5 control source         1         0,1,2         3,1,2           06         1 byte         Relay 1 control source         1         0,1,2,3,4,5         3,0           07         1 byte         Relay 2 control source         2         0,1,2,3,4,5         3,0         1,2,3,4,5         3,0         1,2,3,4,5         3,0         1,2,3,4,5         3,0         1,2,3,4,5         3,0         1,2,3,4,5         3,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,2,3,4,5         1,0         1,0         1,0         1,2,3,4,5         1,0	03	1 byte	Backlight 3 control source	1	0, 1, 2
1   1   1   1   1   1   1   1   1   1	04	1 byte	Backlight 4 control source	1	0, 1, 2
1 byte	05	1 byte	Backlight 5 control source	1	0, 1, 2
08         1 byte         Relay 3 control source         3         0, 1, 2, 3, 4, 5           09         1 byte         Relay 4 control source         4         0, 1, 2, 3, 4, 5           10         1 byte         Relay 5 control source         5         0, 1, 2, 3, 4, 5           11         1 byte         Click control mode for touch button 1         1         0 - 6           11         1 byte         Click control mode for touch button 3         1         0 - 6           13         1 byte         Click control mode for touch button 3         1         0 - 6           14         1 byte         Click control mode for touch button 3         1         0 - 6           15         1 byte         Click control mode for touch button 4         1         0 - 6           16         1 byte         Hold control mode for touch button 5         1         0 - 6           16         1 byte         Hold control mode for touch button 1         1         0 - 1,2           18         1 byte         Hold control mode for touch button 2         1         0, 1, 2           18         1 byte         Hold control mode for touch button 5         1         0, 1, 2           21         1 byte         Hold control mode for touch button 5         1	06	1 byte	Relay 1 control source	1	0, 1, 2, 3, 4, 5
1 byte	07	1 byte	Relay 2 control source	2	0, 1, 2, 3, 4, 5
10	08	1 byte	Relay 3 control source	3	0, 1, 2, 3, 4, 5
11   1 byte	09	1 byte	Relay 4 control source		0, 1, 2, 3, 4, 5
12	10	1 byte	Relay 5 control source	5	0, 1, 2, 3, 4, 5
13	11	1 byte	Click control mode for touch button 1	1	0 - 6
14	12	1 byte	Click control mode for touch button 2	1	0 - 6
15	13	1 byte	Click control mode for touch button 3	1	0 - 6
16	14	1 byte	Click control mode for touch button 4	1	0 - 6
17	15	1 byte	Click control mode for touch button 5	1	0 - 6
18	16	1 byte	Hold control mode for touch button 1	1	0, 1, 2
19	17	1 byte	Hold control mode for touch button 2	1	0, 1, 2
20	18	1 byte	Hold control mode for touch button 3	1	0, 1, 2
21         1 byte         Timer mode duration for button 1         1         1 - 240           22         1 byte         Timer mode duration for button 2         1         1 - 240           23         1 byte         Timer mode duration for button 3         1         1 - 240           24         1 byte         Timer mode duration for button 4         1         1 - 240           25         1 byte         Timer mode duration for button 5         1         1 - 240           25         1 byte         Power of the Relay 1 load in W         0         0 - 5000           27         2 bytes         Power of the Relay 2 load in W         0         0 - 5000           28         2 bytes         Power of the Relay 3 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness         1         0         0 - 5000<	19	1 byte	Hold control mode for touch button 4	1	0, 1, 2
22	20	1 byte	Hold control mode for touch button 5	1	0, 1, 2
23	21	1 byte	Timer mode duration for button 1	1	1 - 240
24         1 byte         Timer mode duration for button 4         1         1 - 240           25         1 byte         Timer mode duration for button 5         1         1 - 240           26         2 bytes         Power of the Relay 1 load in W         0         0 - 5000           27         2 bytes         Power of the Relay 2 load in W         0         0 - 5000           28         2 bytes         Power of the Relay 3 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour backlight brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness         1         0         0 - 5000           34         2 bytes         Red colour auto brightness         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 2 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour	22	1 byte	Timer mode duration for button 2	1	1 - 240
25	23	1 byte	Timer mode duration for button 3	1	1 - 240
26         2 bytes         Power of the Relay 1 load in W         0         0 - 5000           27         2 bytes         Power of the Relay 2 load in W         0         0 - 5000           28         2 bytes         Power of the Relay 3 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 4 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour auto brightness level 1 max lumens         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness level 2 max lumens         200         0 - 5000           34         2 bytes         Blue colour auto brightness level 2 max lumens         30         0 - 5000           35         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           39         1 byte         Temperature	24	1 byte	Timer mode duration for button 4	1	1 - 240
27         2 bytes         Power of the Relay 2 load in W         0         0 - 5000           28         2 bytes         Power of the Relay 3 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 4 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour backlight brightness         0         0, 1, 2, 3           32         2 bytes         Red colour auto brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness         30         0 - 5000           34         2 bytes         Red colour auto brightness level 2 max lumens         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 2 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           38         2 bytes         Temperature difference to send to controller, value X 10         2         1 - 10           40         1 byte         Touch buttons sensitivity	25	1 byte	Timer mode duration for button 5	1	1 - 240
28         2 bytes         Power of the Relay 3 load in W         0         0 - 5000           29         2 bytes         Power of the Relay 4 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour backlight brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness level 1 max lumens         30         0 - 5000           34         2 bytes         Red colour auto brightness level 2 max lumens         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 1 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           39         1 byte         Temperature ensor calibration         0 - 95 - 95           39         1 byte         Temperature difference to send to controller, value X 10         2         1 - 10           40         1 byte         Touch buttons sensitivi	26	2 bytes	Power of the Relay 1 load in W	0	0 - 5000
29         2 bytes         Power of the Relay 4 load in W         0         0 - 5000           30         2 bytes         Power of the Relay 5 load in W         0         0 - 5000           31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour backlight brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness level 1 max lumens         30         0 - 5000           34         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 2 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           38         2 bytes         Temperature difference to send to controller, value X 10         2         1 - 10           40         1 byte         Touch buttons sensitivity, 10=Supper sensitivity, 00=constitivity, 0         20         10 - 60	27	2 bytes	Power of the Relay 2 load in W	0	0 - 5000
30   2 bytes   Power of the Relay 5 load in W   0   0 - 5000     31	28	2 bytes	Power of the Relay 3 load in W	0	0 - 5000
31         1 byte         Red colour backlight brightness         0         0, 1, 2, 3           32         1 byte         Blue colour backlight brightness         0         0, 1, 2, 3           33         2 bytes         Red colour auto brightness level 1 max lumens         30         0 - 5000           34         2 bytes         Red colour auto brightness level 2 max lumens         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 1 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           38         2 bytes         Temperature autiference to send to controller, value X 10         2         1-10           40         1 byte         Touch buttons sensitivity, 10=Supper sensitivity.         20         10 - 60	29	2 bytes	Power of the Relay 4 load in W	0	0 - 5000
32         1 byte         Blue colour backlight brightness         0         0,1,2,3           33         2 bytes         Red colour auto brightness level 1 max lumens         30         0 - 5000           34         2 bytes         Red colour auto brightness level 2 max lumens         200         0 - 5000           35         2 bytes         Blue colour auto brightness level 1 max lumens         30         0 - 5000           36         2 bytes         Blue colour auto brightness level 2 max lumens         200         0 - 5000           37         1 byte         Active state backlight colour         1         0, 1           38         2 bytes         Temperature sensor calibration         0 - 95 - 95           39         1 byte         Temperature difference to send to controller, value X 10         2         1 - 10           40         1 byte         Touch buttons sensitivity, 10=Supper sensitivity, 00=lowest sensitivity.         20         10 - 60	30	2 bytes	Power of the Relay 5 load in W	0	0 - 5000
33   2 bytes	31	1 byte	Red colour backlight brightness	0	0, 1, 2, 3
33	32	1 byte	Blue colour backlight brightness	0	0, 1, 2, 3
34	33	2 bytes	level 1 max lumens	30	0 - 5000
36   2 bytes   Blue colour auto brightness   200   0 - 5000     37   1 byte   Active state backlight colour   1   0, 1     38   2 bytes   Temperature sensor calibration   0 - 95 - 95     39   1 byte   Controller, value X 10   2   1 - 10     40   1 byte   Touch buttons sensitivity.   10 - 5000     10 - 5000   0 - 5000   0 - 5000     10 - 5000   0 - 5000   0 - 5000     10 - 5000   0 - 5000   0 - 5000     10 - 5000   0 - 5000   0 - 5000     10 - 5000   0 - 5000   0 - 5000     10 - 5000   0 - 5000   0 - 5000     11 - 5000   0 - 5000   0 - 5000     12 - 5000   0 - 5000   0 - 5000     13 - 5000   0 - 5000   0 - 5000     14 - 5000   0 - 5000   0 - 5000     15 - 5000   0 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     15 - 5000   0 - 5000     16 - 5000   0 - 5000     17 - 5000   0 - 5000     17 - 5000   0 - 5000     18 - 5000   0 - 5000     18 - 5000   0 - 5000     19 - 5000   0 - 5000     19 - 5000   0 - 5000     10 - 5000   0 - 5000	34	2 bytes		200	0 - 5000
36	35	2 bytes		30	0 - 5000
38         2 bytes         Temperature sensor calibration         0         -95 - 95           39         1 byte         Temperature difference to send to controller, value X 10         2         1 -10           40         1 byte         Touch buttons sensitivity, 10=Supper sensitive, 60-lowest sensitivity.         20         10 - 60	36	2 bytes		200	0 - 5000
39         1 byte         Temperature difference to send to controller, value X 10         2         1 -10           40         1 byte         Touch buttons sensitivity. 10=Supper sensitivity. 60=lowest sensitivity.         20         10 - 60	37	1 byte	Active state backlight colour	1	0, 1
1 byte   Controller, value X 10   2   1 - 10	38	2 bytes	Temperature sensor calibration	0	-95 - 95
sensitive. 60=lowest sensitivity.	39	1 byte		2	1 -10
41 1 byte Gateway 0 0, 1	40	1 byte		20	10 - 60
	41	1 byte	Gateway	0	0, 1

The switch has 11 EndPoints and 30 groups with a maximum of 3 device associations with 1 - Controlled by touch button value 0. The comfort brightness for the red colour can be chosen depending on the temperature change is equal or greater than the parameter value/10 (value divided 2 - Controlled by gateway or associated device room illumination in Parameters 28 and 29. by 10) specified in this parameter. For example if the parameter value is 3 and The EndPoint 0 is the main device and includes the Touch Button association groups as well sensor reading is 24.0°C the switcher will send new sensor reading to the gateway Factory default value: 1 0-Auto, 1-Level 1 (Min), 2-Level 2, 3-Level 3 (Max) as all the association groups of Backlights and Relays (the EndPoints 1-10): only in case if it is 24.3°C and above or in case if it is 23.7°C and below. Factory default value: 0 Group 1 - Z-Wave Plus "LifeLine" From 1 (0.1°C) to 10 (1.0°C) can be chosen. Parameters 06-10 - Touch button number for Relay control Group 2 - Touch button 1 "Basic Set (On/Off)" Factory default value: 2 (0.2°C) 0 - Controlled by gateway or associated device Group 3 - Touch button 1 "Multilevel Set" Note: The illumination of the environment can be checked via the Z-Wave gateway. Note: The switcher sensor is very sensitive to changes of ambient temperature and 1 - Controlled by touch button N1 (Top Left) Group 4 - Touch button 2 "Basic Set (On/Off)" can often vary by ±0.1C, therefore it is recommended to set this parameter from 2 2 - Controlled by touch button N2 (Top Right) Group 5 - Touch button 2 "Multilevel Set" Parameter 32 - Blue colour backlight brightness (0.2°C) and above to reduce the load on your Z-Wave network. Group 6 - Touch button 3 "Basic Set (On/Off)" 3 - Controlled by touch button N3 (Bottom Left) To activate the auto adjust function for the blue colour backlights set parameter Group 7 - Touch button 3 "Multilevel Set" 4 - Controlled by touch button N4 (Bottom Right) value 0. The comfort brightness for the blue colour can be chosen depending on the Parameter 40 - Touch buttons sensitivity Group 8 - Touch button 4 "Basic Set (On/Off)" 5 - Controlled by touch button N5 (Center) room illumination in Parameters 30 and 31. Group 9 - Touch button 4 "Multilevel Set" The device touch buttons sensitivity can be adjusted Factory default value: Each relay corresponds to its button, e.g. for Relay 3 the 0-Auto, 1-Level 1 (Min), 2-Level 2, 3-Level 3 (Max) Group 10 - Touch button 5 "Basic Set (On/Off)" From 10 (supper sensitive) to 60 (minimum sensitivity) can be chosen. default value is touch number 3 Group 11 - Touch button 5 "Multilevel Set" Factory default value: 0 Factory default value: 20. Group 12 - Backlight 1 "Basic Set (On/Off)" Note: Too high sensitivity can lead to false detection. Do not change this parameter Parameters 11-15 - Click control mode Group 13 - Backlight 2 "Basic Set (On/Off)" unless there is an urgent need. Note: The illumination of the environment can be checked via the Z-Wave gateway. Group 14 - Backlight 3 "Basic Set (On/Off)" 0 - Click function is disabled Group 15 - Backlight 4 "Basic Set (On/Off)" 1 - press the button and the relay inverts the state (ON to OFF, OFF to ON like a Parameter 41 - Gateway Parameter 33 - Red colour auto brightness level 1 max lumens Group 16 - Backlight 5 "Basic Set (On/Off)" toggle switch) regarding touch button state. If Fibaro Home Center Life or Fibaro Home Center 2 is used as a gateway for correct Group 17 - Realy 1 "Basic Set (On/Off)" The value indicates the maximum level of ambient illumination during which the 2 - press the button and the relay inverts the state (ON to OFF, OFF to ON like a communication of the devices set this parameter 1. For other gateways choose 0. Group 18 - Realy 2 "Basic Set (On/Off)" brightness of the red colour backlight will be at level 1 (the lowest level). For example toggle switch) regarding button backlight state Factory default value: 0. Group 19 - Realy 3 "Basic Set (On/Off)" if this parameter value is set to 30 and the ambient illumination is in range 0-30 then 3 - press the button and the relay goes to ON state only Group 20 - Realy 4 "Basic Set (On/Off)" the backlight will be in the lowest brightness level. As soon as the illumination will be 4 - press the button and the relay goes to OFF state only Group 21 - Realy 5 "Basic Set (On/Off)" 31 or higher the backlight brightness will be changed to Level 2. 5 - Timer mode ON-OFF. Press the button and the relay output goes to the ON state 7-WAVE NETWORK (contact is closed) then after a specified time it goes back to the OFF state (contact is Factory default value: 30. EndPoint 1-5 are assigned to Backlights 1-5 and provide the association of the two groups: Group 1 - Z-Wave Plus "Lifeline" allows for the assignment of single device. open). The time is specified in parameters 21-25 Inclusion Group 2 - "Basic Set (On/Off)" is assigned to the backlight and reflects its state. 6 - Timer mode OFF-ON. Press the button and the relay output goes to the OFF Parameter 34 - Red colour auto brightness level 2 max lumens 1. Start the inclusion mode from the gateway state (contact is open) then after a specified time it goes back to the ON state The value indicates the maximum level of ambient illumination during which the 2. To start the inclusion process on the device simultaneously press two bottom EndPoint 6-10 are assigned to the Relays 1-5 and provide the association of the two groups: (contact is close). The time is specified in Parameters 21-25 brightness of the red colour backlight will be at level 2. In case, the illumination is in touch buttons and hold them for 3 seconds Group 1 - Z -Wave Plus "Lifeline" Factory default value: 1 the range Parameter 33 - Parameter 34 the display brightness will be on level 2. If the 3. Two upper buttons will sequentially blink blue-red Group 2 - "Basic Set (On/Off)" is assigned to the relay and reflects its state. illumination drops below the value of Parameter 33 the brightness will be decreases 4. If the inclusion has been successful the two upper buttons will turn blue. Parameters 16-20 - Hold control mode. to level 1, and if the illumination increases beyond the value of Parameter 34 the 5. If the inclusion was not completed the two upper buttons will turn red. In that case 2-YEAR LIMITED WARRANTY 0 - Hold function is disabled brightness will rise to level 3. start the inclusion process again. 1 - Operate like click Factory default value: 200. Note: In case the device has been part of the Z-Wave network before and not Heltun warrants this product to be free from defects in the workmanship or materials, under normal use and service, for a period of two (2) years from the date of purchase by the 2 - When the button is held the relay output state is ON, as soon as the button is excluded since, inclusion is not possible. In this case, exclusion or factory reset must consumer. If at any time during the warranty period the product is determined to be defective released the relay output state changes to OFF (momentary switch) be performed before inclusion. Parameter 35 - Blue colour auto brightness level 1 max lumens or malfunctions. Heltun shall repair or replace it (at Heltun's option). 3 - When the button is held the relay output state is OFF, as soon as the button is The value indicates the maximum level of ambient illumination during which the If the product is defective, (i) return it, with a bill of sale or other dated proof of purchase, to the Security: S0, S2 unauthorized and S2 authorized inclusion modes are supported. If released the relay output state changes to ON (momentary switch). brightness of the blue colour backlight will be at level 1 (at the lowest level). place from which you purchased it: or (ii) contact Heltun Customer Care at you use S2 authorized inclusion mode the security key should be used in inclusion Factory default value: 1 support@heltun.com. Customer Care will make the determination whether the product Factory default value: 30. process should be returned or whether a replacement product can be sent to you. NOTE: Be sure to save this key. Without this key it is impossible to perform an Parameters 21-25 - Relay Timer mode duration Parameter 36 - Blue colour auto brightness level 2 max lumens inclusion in S2 authorized mode THIS WARRANTY DOES NOT COVER REMOVAL OR REINSATILIATION COSTS These parameters specifiv the duration in seconds for the Timer mode (value 5 or 6 The value indicates the maximum level of ambient illumination during which the THIS WARRANTY SHALL NOT APPLY IF IT IS SHOWN BY HELTUN THAT THE in Parameters 11-15 respectively). Press the button and the relay output goes to brightness of the blue colour backlight will be at level 2. If the illumination increases DEFECT OR MALFUNCTION WAS CAUSED BY DAMAGE WHICH OCCURRED ON/OFF for the specified time then changes back to OFF/ON. This function can be WHILE THE PRODUCT WAS IN THE POSSESSION OF A CONSUMER THIS beyond this value the brightness will rise to level 3. used to open/close garage doors, blinds, curtains, etc. or to turn off the security for a Factory default value: 200. WARRANTY SHALL NOT OBLIGATE HELTUN FOR ANY LABOR COSTS AND SHALL Exclusion short time. Time can be configured from 1 sec to 255 sec. NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY To exclude the switcher from the Z-Wave network Factory default value: 1 YOUR INSTALLER AS CONTRASTED TO DEFECTS IN THE SWITCHER ITSELF. Parameter 37 - Active state backlight colour 1. Start the exclusion mode from the gateway IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR Choose the value 0 if the red colour backlight is required for button active state and 2. Simultaneously press two bottom touch buttons and hold them for 3 seconds. PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID TWO YEAR Parameters 26-30 - Relays load power in watt. the blue colour for the inactive state. Choose the value 1 if the blue colour backlight 3. Two upper buttons will sequentially blink blue-red

Parameter 31 - Red colour backlight brightness

To activate the auto adjust function for the red colour backlights set the parameter

is preferable for the active state and the red colour for the button inactive state.

made by adjusting the values by up to +/- 9.5°C. This value will be added or

subtracted from the internal air temperature sensor reading. To define the offset

value set it is multiplied by 10 (value\*10), E.g. the value -15 means -1.5°C.

Factory default value is 1

Factory default value: 0

Parameter 38 - Temperature sensor calibration

Parameters 01-05 - Buttons backlight control source

It is possible to specify the consumption of the loads in watts for each relays channel

The device will calculate total consumption relativel to the time since the output of

The Switcher can adjust the buttons backlight brightness automatically depending

on the illumination of the ambient environment. To activate auto adjust function set

To control the brightness manually choose one of three available levels in Parameter

31 for the red colour backlight and in Parameter 32 for the blue colour backlight.

the relavs is in the ON state.

**BACKLIGHT BRIGHTNESS** 

Parameters 31 and 32 values 0.

Factory default value: 0

0 - Backlight is disabled (both colour leds are turned off)

#### This parameter defines the offset value for the air temperature sensor. If the internal **FACTORY RESET** temperature sensor is not correctly calibrated the change of temperature can be

case start the exclusion process again

EFFECTIVE UPON INSTALLATION. For factory reset simultaneously press the two bottom and central touch buttons and hold them for 5 seconds. If successful the two upper buttons will turn blue. NOTE: The factory reset will change all the parameters to the original factory defaults and will also exclude the device from the Z-Wave network.

4. If the exclusion has been successful the two upper buttons will turn red

5. If the exclusion was not completed the two upper buttons will turn blue. In that

Parameter 39 - Temperature difference to notify the gateway

The switcher will send a new temperature to the gateway only in case the

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PERIOD. HELTUN'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL

DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING

FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE

LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS

VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS SWITCHER

INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF

THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED

CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE

ASSOCIATION