MEDHA
Your Space On Command

PRODUCT
MANUAL

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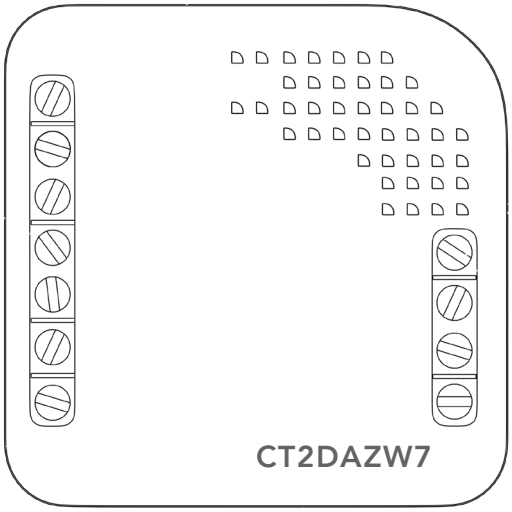


CONFIO®

2 CHANNEL DALI TO Z-WAVE

CT2DAZW7

SEPT 2025

INTRODUCTION

2 Channel DALI to Z-Wave is a miniature MicroModule, which is remotely controlled and designed to operate in AC mains. In AC mains, it operates with a common neutral lead. Two Bell Switches enable ON/OFF and dimming control of regular loads. It can be used to control different types of analog/ digital dimmable lights. The Device also operates as a repeater within the Z-Wave Network to which it is associated and uses the latest Z- Wave plus chips.

TECHNICAL SPECIFICATIONS

Power Input	110 to 240 VAC, 50/60Hz
Maximum Load per Channel @240VAC	NA
CumulativeLoad - 4 Channel Muxed @240VAC	NA
Operating Temperature	-10° to +55°C
Temperature Sensing	NA
Relative Humidity	8% - 80%RH
Dimensions	49mm x 49mm x 18mm

Radio Frequency	865.2MHz (IN)
Surge Protection	1.2 kV
Typical Line of Sight Range	10~15m Indoor /30m Outdoor
Plastic Housing	Fire Retardant ABS
Supported Load Type for LED indication	DALI Loads 110 to 240 VAC, 8A, 150W Max

WARNINGS & CONSIDERATIONS

CAUTION

READ INSTRUCTIONS IN FULL BEFORE USE

The Wiring Connection Diagram and Parameters to use are mentioned in the manual. The Manufacturer, Confio will not be held responsible for any loss or damage resulting from not following the instructions of the Operating Manual.

CAUTION

DO NOT CONNECT THE DEVICE TO LOADS EXCEEDING RECOMMENDED VALUES

Connect Loads to the module below the Load ratings to work normally. Do not connect overload, this may lead to module failure.

CAUTION

FOLLOW INSTRUCTION MANUAL FOR CIRCUIT CONNECTION

Connections must be made according to the instructions available on Operational Manual, faulty connection leads to manual failure.

DANGER

DANGER OF ELECTRIC SHOCK

All works on the Device may be performed only by a trained Installers. If the installation is done by an unauthorized Technician the Manufacturer will not be held responsible. Contact support@confiolabs.com or call +91-9606030659 for a list of authorized Technicians.

DANGER

DANGER OF ELECTRIC SHOCK

Any works introducing changes into the configuration of connections or the load must be always performed with disconnected voltage. Since there are high chances of voltage occurrence at the terminals even after Device turn off. (Turn off the MCB).

DANGER

DANGER OF ELECTRIC SHOCK

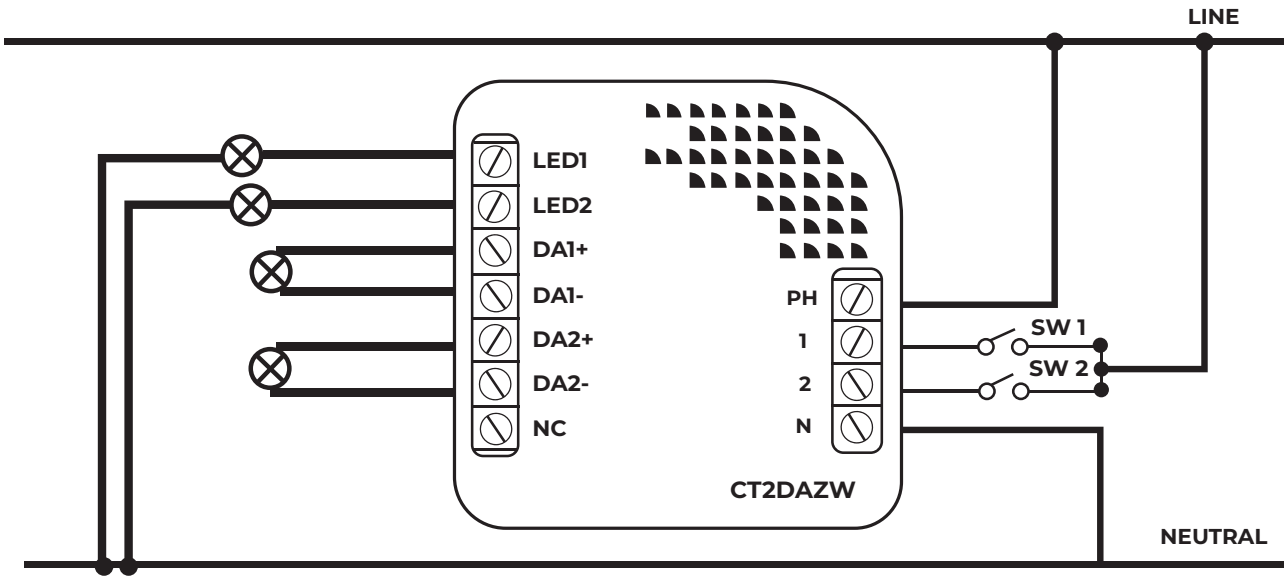
Faulty connection or use may result in fire or Electric Shock.

SAFETY MEASURES

- Before installation, make sure that the power supply mains is turned off.
- Remove the switchboard cover frame and the switch frame to access the switches.
- Select the Loads to be connected on particular Terminals.
- If multiple Loads are connected to a single terminal, use appropriate connectors to avoid short circuit.
- Use only minimum 1.5mm² wires and maximum 2.5mm² wires for connections.
- This Device requires a neutral lead to operate.

CIRCUIT CONNECTIONS

The below wiring diagrams explain the possible combinations that are available.



NOTE: The Manufacturer, Confio will not be held responsible for any loss or damage resulting from not following the instructions of the Operating Manual.

ACTIVATING CONFIO DIMMER

1.Installing the Device

- Make sure that the power supply mains is turned off.
- Connect the Device in accordance with the wiring diagram
- Connect the DALI driver connections.
- Replace existing switches using Bell Switch, SW1 and SW2
- Complete all the connections and check the Pairing before sealing the Electrical Box.

2.Managing the Device through Z-Wave Network

It is recommended to place the micro module within 3 meters Line of Sight, as adding mode requires direct communication with the Controller. Move the Module near to the Primary Controller during this step, if required.

INCLUSION METHODS

Method 1

Press the Node ID button (at the back of the Module), to start pairing the device to the Gateway.

Method 2

Toggle SW1 3 times within 4 seconds to start pairing the device to the Gateway. (Sequence: ON-OFF ON-OFF ON-OFF).

EXCLUSION METHODS

Method 1

Press the Node ID Button (at the back of the Module), to start the Exclusion process from the Gateway

Method 2

Toggle SW1 3 times within 4 seconds to start Unpairing the device from the Gateway. (Sequence: ON-OFF ON-OFF ON-OFF).

RESETTING DEVICE

Method 1

For resetting the Micro Module, press and hold the Node ID Button behind the Module for 10 seconds, Once the red and green led glows release the switch. Then, the Device will be restored to default.

Method 2

Hard reset can be done by pressing the SW2 ON-OFF for 13 times.

LED INDICATIONS

LED Indication	Status
Red Blinking	Excluded
Green Blinking	Included/Paired
Red and Green	In Pairing Mode

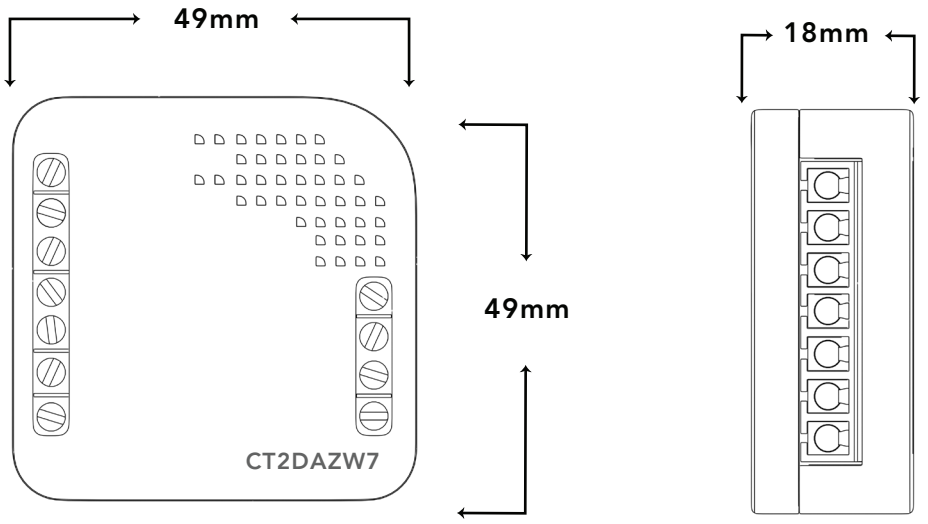
CONTROLLING BY POSITION SWITCHES

SW1 and SW2 are controlled by Bell Switches for Dimming and Position Switches for ON/OFF.

Press and hold the appropriate switch to increase or decrease the brightness of the channel.

SETTING ADDITIONAL PARAMETERS

- Log on to Z-Wave Gateway from app.
- Click Device Options >> Add Configuration Settings.
- Enter the Parameter Number in the Variable Box and enter the desired Parameter Value. For example, to disable on board Leds, set Parameter - |11 1-Byte-Dec 00|.
- Click “SET”.
- Close the dialog box and click Update Button.



IMPORTANT INSTRUCTIONS

- Wear standard personal protection equipment to give protection to the Installer.
- Position the antenna far away from metal elements to avoid interference.
- Do not cut or shorten the antenna, as its length is matched to the band in which the system operates.
- Do not over-tighten the terminal block. It can cause serious malfunctioning after installation.

ADDITIONAL PARAMETERS

Parameter 01	Power ON status of load 1
Range	0 to 1 (0: Switch SW1,1: Memory)
Default	1: Memory
Description	This parameter decides the power ON state (when module is powered ON) of Load connected on channel1. This parameter provides two options either power ON to memory (previous state as it was before power OFF) or present switch position

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Parameter 02	Power ON status of load 2
Range	0 to 1 (0: Switch SW2,1: Memory)
Default	1: Memory
Description	This parameter decides the power ON state (when module is powered ON) of Load connected on channel2. This parameter provides two options either power ON to memory (previous state as it was before power OFF) or present switch position

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Parameter 04	Dimming preference for load1
Range	0 to 1(0: Instant,1: Smooth)
Default	1: Smooth
Description	This parameter switch between the dimming preference Smooth dimming or Instant dimming for the load connected on channel 1.

Parameter 05	Dimming preference for load2
Range	0 to 1(0: Instant,1: Smooth)
Default	1: Smooth
Description	This parameter switch between the dimming preference Smooth dimming or Instant dimming for the load connected on channel 2.

Parameter 06	Dimming speed for load 1
Range	1 to 5 1: Very Fast0 2: Fast 3: Medium 4: Slow 5: Very Slow
Default	3: Medium
Description	This parameter sets the dimming speed of load connected on channel 1.

Parameter 07	Dimming speed for load 2
Range	1 to 5 1: Very Fast0 2: Fast 3: Medium 4: Slow 5: Very Slow
Default	3: Medium
Description	This parameter sets the dimming speed of load connected on channel 2.

Parameter 09	SW1 Functionality
Range	0 to 3 0: Position switch ON-to-ON and OFF-to-OFF 1: Toggle switch 3: No switch 2: Bell switch
Default	2: Bell switch
Description	This parameter switch between the switch functionality for SW1 i.e. Position switch OR toggle switch OR Bell switch dimming

Parameter 10	SW2 Functionality
Range	0 to 3 0: Position switch ON-to-ON and OFF-to-OFF 1: Toggle switch 3: No switch 2: Bell switch
Default	2: Bell switch
Description	This parameter switch between the switch functionality for SW2 i.e. Position switch OR toggle switch OR Bell switch dimming

Parameter 11	On board LED enable/disable
Range	0 to 1(0: Disable,1: Enable)
Default	1: Enable
Description	This parameter enables or disables on board LEDs

Parameter 12 **Range**	Channel 1 minimum ON level Calibration Value 0 to 100
Default	0
Description	This parameter holds the min value for the dimmer connected on channel 1 to turn on.

Parameter 13 **Range**	Channel 2 minimum ON level Calibration Value 0 to 100
Default	0
Description	This parameter holds the min value for the dimmer connected on channel 2 to turn on.

Parameter 18 **Range**	Channel 1 maximum ON level Calibration Value 0 to 100
Default	100
Description	This parameter holds the maximum value for turning on the dimmer connected on channel 1.

Parameter 19 **Range**	Channel 2 maximum ON level Calibration Value 0 to 100
Default	100
Description	This parameter holds the maximum value for turning on the dimmer connected on channel 2.

Parameter 20	Channel 1 minimum ON level for Position/Toggle Switch
Range	30 to 100
Default	30
Description	This parameter holds the minimum value for SW1 (Position/Toggle switch)

Parameter 20	Channel 2 minimum ON level for Position/Toggle Switch
Range	30 to 100
Default	30
Description	This parameter holds the minimum value for SW2 (Position/Toggle switch)

COMMON ISSUES

Pairing not Working: Confirm that the Main Controller and the Dimmer Controller are within 3 meters from each other. Check that the Node ID Button is pressed properly, Red and Green LED will appear if the device goes to Inclusion/Exclusion Mode.

OPERATING THE DEVICE

The two loads may be operated using the following options:

- Bell Switches connected to SW1 and SW2.
- Z-Wave Remote Controller with Multi-Channel implementation.
- Bell Switches (Dimming)/Position Switches (ON/OFF)/Toggle Switches (ON/OFF).
- Any Controller compatible with Multi-Channel implementation of Z Wave.

RECOMMENDATIONS

- For connecting multiple loads on a single Device, ask the Electrician to calculate the total load and confirm that it does not exceed the ratings mentioned under Specification section.
- Check the space behind the Switch Box for placing the Device. Turn off the MCB before the installation of Puck Module.
- Use only minimum 1.5mm² wires and maximum 2.5mm² wires for connections.
- Strictly follow the wiring diagram for connections.
  If there are signs of water seeping into the Switch Box, disconnect the power supply to avoid short circuits.

WARRANTY

A Standard warranty of 24 months from the date of supply is applicable for all products

The warranty shall not cover:

- Mechanical damages caused by impact, falling or dropping the device or their object, unauthorized use or not observing the Operation Manual.
- Damages resulting from external causes, for example, flood, storm, fire, lightning, natural disasters.
- Damages resulting from surges in the power and/or telecommunication network, improper connection to the grid in a manner inconsistent with the operating manual, or from connecting other Devices not recommended by the Manufacturer.
- Damages resulting from the use of spurious spare parts or accessories improper for given model, repairing and introducing alterations by unauthorized persons.
- Defects caused by operating inoperable devices or accessories.

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By Confio

For any technical and support queries,
please contact the Manufacturer

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