Fan Controller Manual



Introduction

Fan and Light controller is a miniature micro module which is remotely controlled and designed to operate in AC mains. This device enables 4 step fan speed control and ON/OFF control of one light. The fan speed is controlled by mobile app or rotatory step switch. The fan+light controller also operates as a repeater within the Zigbee network it is associated.

The 4-Channel Relay can be used in one of four operating modes: 4-Channel Relay Controller - Control up to 4 relay-controlled devices

Dual-Channel Curtain Controller - Control up to 2 dual channel curtains or blinds

Single-Channel Curtain Controller - Control a single high-wattage curtain, blind or gate up to 300W at 240V AC and 150W at 120V

Fan-Light Controller - Control a three-speed fan and a light

Technical specification

Power input 110 - 240 VAC, 50Hz / 60Hz

Operating temperature -10 to +35 °C

Relative humidity 5 % - 95%

Dimensions 49 mm x 49 mm x 18 mm

RF frequency 2.4GHz Power consumption <1 watt

Surge protection 2.5KV

Typical line of sight

Up to 10m indoor / 10-20m outdoor

Plastic housing Fire retardant ABS

10		200
Max Load Per Channel	240V AC	120V AC
Incandescent	600W	300W
Inductive	300W	150W
LED	150W	75W

QR codes

This document includes usage details for the 4-Channel Relay mode. Please refer to the following documents for details for additional operating modes

Please Scan the QR code below for the 4 channel Relay module module or click on the link



https://confio.in/pdf/CT4RZB.pdf

Please Scan the QR code below for the 2 channel curtain controller module or click on the link



https://confio.in/pdf/CT2CCZB.pdf

Please Scan the QR code below for the Curtain controller module or click on the link



https://confio.in/pdf/CTCCZB.pdf

Warnings and considerations



WARNING!

Turn OFF electrical power before installing or servicing this product. Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.



WARNING!

This device must be protected by a circuit breaker (20 A max).



WARNING!

Ground this device in accordance with the National Electric Code (NEC) requirements. DO NOT rely solely upon the yoke plate's contact with a metal wallbox for adequate grounding. Use the device's ground wire to make a secure connection to the safety ground of the electrical system.



MPORTANT!

This device must be installed by a licensed electrician in accordance with all national and local electrical codes.



MPORTANTI

If you are unsure about any part of these instructions, consult a qualified electrician.



MPORTANTI

Use this device only with copper or copper-clad wire. Do not use aluminum wiring. This product has not been approved for use with aluminum wiring.



PORTANT!

This product generates heat during normal operation.



IMPORTANT!

Using this product in a manner other than outlined in this document voids your warranty. Further, Confio is NOT liable for any damage incurred with the misuse of this product.

Safety measures

- Before installation, make sure that the power supply mains is turned off
- If multiple loads are connected to a single terminal, use appropriate connectors to avoid short circuit.

- Use only minimum 1mm2 wires and maximum 1.5mm2 wires for connections.
- 6: This device requires a neutral lead to operate

What you can control

- 1: Fan
- 2: LED lights
- 3: Incandescent bulbs

LED indications

Normal Led Indications

led	Green	Device Status	Time in sec
llinking	OFF	Ready to join network	Cont.
)FF	Blinking	Successfully joined network	Cont.
llinking	Blinking	Joining network in process	4 sec

Node_SW Location On Device

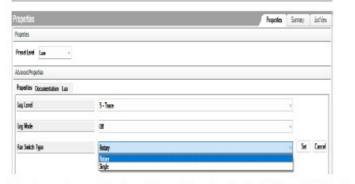


Node_SW functions for Multi firmware modules

Device Mode	Node_SW Presses	Operation	Led indications	Commands
Functional Mode	4	Join network (Start identify process)	Red & Green LED's Blinking (1sec Toggle period)	
	9	Factory Reset	Parameters will be set to default state (Both LED) keep glowing until factory reset completes)	
	13	Leavenetwork	Red LED Blinking	
	15	Restart		Device power cycle
	5	App_Select Mode	Red & Green LED's Blinking (500ms Toggle period)	Device should not be in Mesh network while selecting Applications, After 5times pressing if user not selected any application within 30sec by pressing 1 or 2 times, device will go to previous application state
In App_Select Mode	1	To select 4-channel relay application	Red LED Blinking (500ms Toggle period) Until device indudes to Meshnetwork	Refer 4 channel Relay Module Manual for operations
	2	To select Dual curtain controller	Until device indudes to mesh network	Refer Dual Curtain Controller Manual for operations
	3	To select single curtain	Red LED Blink pattern 3 times/sec Until device includes to mesh network	Refer Curtain Controller Manual for operations
	4	To select Fan control	Red LED Blink pattern 4 times/sec Until device indudes to mesh network	

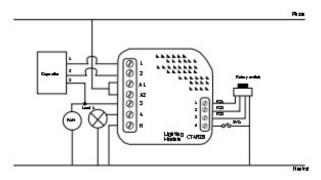
Note: By default device application will be 4-channel relay

Fan Switch Type & circuit connections



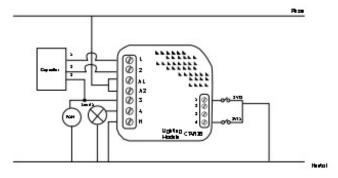
To change Fan switch type, After adding device (->Actions->Add Devices) In Confio Fan driver select switch type as shown above

Option 1: Rotary switch



In Rotary switch Mode Fan levels will change according to level set in rotary switch SW2 is directly connected to Load 1.

Option 2: Single switch



In Single switch Mode, SW2 will toggle Fan level between Level0 and previous Level. If previous level is Level0 then switch will toggle Fan level between Level0 and Level1. Fan levels changing can be done from App or driver.

SW1 is directly connected to Load1.

AUX Behaviours | Property | Prop

- a. Load On When the switch detects voltage, the corresponding Load turns on
- b. Load Off When the switch detects voltage, the corresponding Load turns off
- Toggle Load When the switch detects voltage, the corresponding Load turns on; when the switch is turned off, the Load is turned off
- d. Keypad Adds a keypad connected to the driver that will be triggered when the switch detects the voltage.

- Toggle load (Latch) When the switch detects voltage the corresponding load is toggled
- f. Keypad (Latch) When the switch detects voltage, the keypad connection is triggered; when the switch is turned off, the keypad is turned off

Note:Default Switch Behavior is Toggle Load

Operations and Configuration

Changing modes

By default, the 4-Channel Relay Puck is configured to operate as a 4-Channel Relay.

The operating mode can be changed using one of two methods.

- Change using the App_Select Mode button press sequence as referred to in the Hardware Installation Guide. If using the device's App_Select Mode to change operating modes, this must be done prior to adding the device to the Control4 Zigbee network.
- 2.Use the Change Mode function available in the Confio Puck Control4 driver's Actions. This function will allow you to choose one of the four operation modes. After changing mode once, We can not change the mode again, Until the device leaves mesh and resets.

Please refer to the Control 4 Confio Puck Driver documentation for additional details

Control4 Driver

The following Control 4 Drivers are available for use with the Confio 4-Channel Relay Puck.

- Confio Non-Dimmable Light
- Confio Blind
- Confio Fan

Each driver provides the required controls for each device type as used with the Confio 4-Channel Relay Puck in each of the four operating modes. The corresponding driver documentation provides additional details.

Button operations

Function	Node_SW	Aux. Contact 1 (SW_1)	Aux. Contacts 1 & 2 (SW_1 & SW_2)
Identify	4	4	N/A
ZigBee Channel	7	7	N/A
Reboot Device	15	15	N/A
Factory Reset	9	22	9-4-9
Leave Mesh & Reset	13	30	13-4-13

A. Identify

Join the device to the Control4 Zigbee network

B. Zigbee Channel

After the device is identified with the Control4 controller, the Zigbee channel is indicated by flashing both the red and green LEDs the number of times indicating the device's current Zigbee channel.

C. Reboot Device

The device will be rebooted and the relays will return to their previous state prior to rebooting.

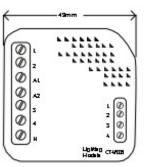
D. Factory Reset

All of the device's parameters will all be reset to the factory defaults, except for the Zigbee network parameters. The device will remain connected to the Zigbee network.

E. Leave Mesh and Reset

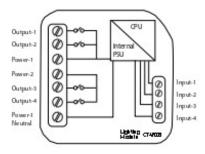
Reset all of the device's parameters to factory defaults including the Zigbee network parameters. The device will be removed from the Zigbee network.

Device Dimensions





Internal Block Diagram



As indicated Power 2 is not tied to the neutral or input terminals, care must be taken if power is sourced from a different RCD to alleviate tripping.

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 matches the band in which the system operates.
- Do not over-tighten the terminal block. It can cause serious malfunction after installation.

Common issues

Pairing not working: Confirm that the remote controller and the device are within 3 meters from each other while adding to the gateway.

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, floods, storms, fires, lightning, and 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.

Recommendations

For connecting multiple loads on a single circuit, ask the electrician to calculate the total load and confirm that it does not exceed the following values:

Max load per channel at 240V AC 800 Watts of Incandescent

75 Watts of LED 200 Watts Inductive load Max load per channel at 120V AC 300 Watts of Incandescent 75 Watts of LED 200 Watts Inductive load

- When 2 outputs are muxed and connected to an AC or a geyser, S2 automatically gets disabled. As the muxed channels are increased, respective switches stop functioning to avoid confusion.
- Check the space behind the switch for placing the relay.
- Turn off the MCB before the installation of dimmer module
- Use 2 mm2 lugs for connection to terminals.
- Strictly follow the wiring diagram for connections
- Do not connect higher loads(more than 8A) to single channel.
- Make sure parameter configuration for muxing are set before connecting higher loads.
- Inclusion has to be done within 10 meter.
- If there are signs of water seeping into the electrical box, turn off the MCB and disconnect the power supply to avoid short circuits.
- Strictly follow the wiring diagram for connections.



For any technical and support queries, please contact

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