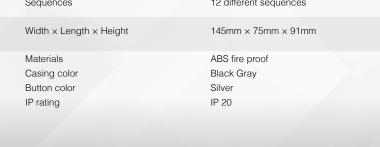


Housing





Dimensions



## 



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 $\Box$ 

# 7615

# INSTALLATION MANUAL

#### MODEL: VLC-12CH-10A



#### **Read Instructions**

We recommend that you read this Instruction Manual before installation.



#### Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and other hazards.

These instructions are an integral part of the product and must remain with the end customer.



#### Programming

This device can be tested and programmed manually. Advanced programming requires TIS Device Search software. Advanced software programming knowledge should be obtained in the advanced training courses.

## 

#### **Simple Installation**

DIN Rail mount facilitates installation. Fixing points are provided for installation without the use of DIN rail.



#### **Mounting Location**

Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding on a mounting location.



#### Data Cable

Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a "Daisy Chain."

Do not cut or terminate live data cables.



#### **Electrical Wires**

The installer should adequately consider the total current consumption when selecting the wires.

Recommended wire size for load (light channels) and input wires is 2.5 -4 mm.



#### Warranty

We provide a warranty as required by law. A hologram warranty seal and product serial number are provided on each device. Please send the description of the defect with Product S/N to our dealer network.



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## 7115

#### INSTALLATION MANUAL VLC 12 CHANNELS 10 AMPS MODEL: VLC-12CH-10A

## **(O)** INSTALLATION STEPS

two mounting screw holes.



2 🄊

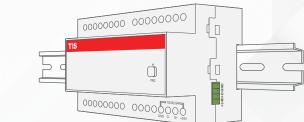
Turn off the main electrical source before installation.

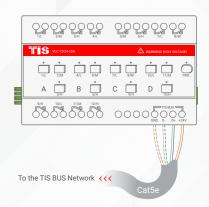
Mount the device on a DIN Rail inside an

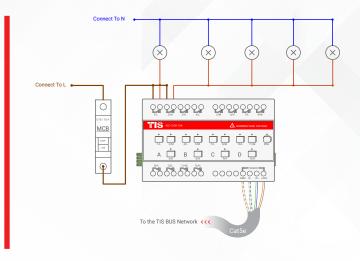
approved enclosure. The device can also

be installed without the use of DIN rail by









# Connect a Cat5e TIS network data cable to the TIS-BUS port as per the connection diagram. No need to loop the TIS-bus cable if 2 DIN Rail modules are connected together from the side bus train terminal.

Complete the load connection, light, shutter, and FCU as per the following steps:

#### Lights / Appliances / Floor-Heating Connection

Connect the load electrical wires to outputs 1-12. Each channel can control a maximum of 10A loads. The installer should make sure not to overload the channels.

Load neutral wire should be linked to the neutral connection in DB enclosure.

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## **(O)** INSTALLATION STEPS

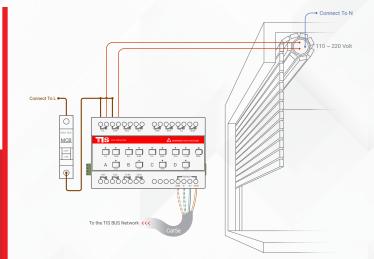


#### Shutter / Curtain connection

Once you combine any 2 channels as shutter/curtain, then connect the shutteropen wire to the first channel and the shutter-close wire to the second channel. The shutter neutral wire should be linked to the neutral connection in DB enclosure.



**WARNING:** Do not connect curtain motor wires before combining (interlocking) 2 relay channels together as curtain mode to avoid causing damage to motors. Please read about how to manually program shutter/curtain pairing in this manual.



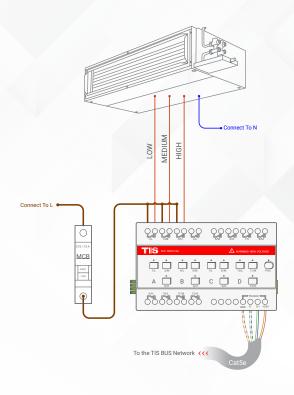


#### **FCU Connection**

Once you combine any 3 channels as FCU, then connect the FCU (Low, Medium, High) wires to the first, second, and third channels, consecutively. The FCU neutral wire should be linked to the neutral connection of the same section.



**WARNING:** Do not connect FCU wires before combining (interlocking) 3 relay channels together as FCU mode to avoid causing damage to FCU. Please read about how to manually program FCU pairing in this manual.



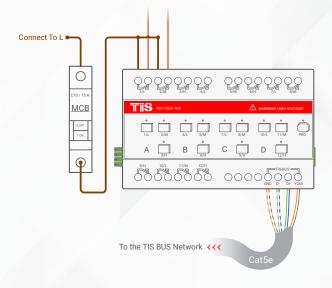
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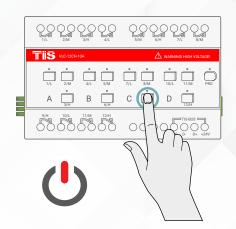




5>> Connect the live (supply) wire to inputs. All inputs must have an appropriate voltage source and an MCB to protect that load circuit.



**6 >** Turn on the power source, and then test the loads by short pressing on the device's local override buttons 1-12.



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## **PAIRING** (MANUAL PROGRAMMING)

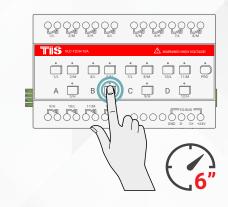


#### LIGHTS / APPLIANCES PROGRAMMING

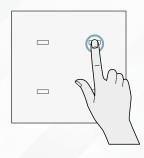
All channels by default are used for lights/appliances control. You can pair device light channels to any wall panels by doing the following:

1>>

Long press on any buttons 1-12 for 6 seconds. The LED indicator for the pressed button will start blinking.

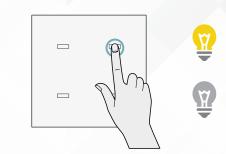


2>> Short press on any wall lights buttons on the Luna, Mars, Terre or others panels.





Test the button on the panel by short pressing it for ON/OFF.





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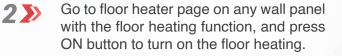


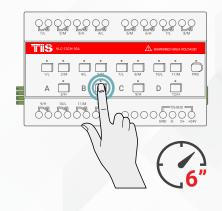
1 >>>

#### INSTALLATION MANUAL VLC 12 CHANNELS 10 AMPS MODEL: VLC-12CH-10A

## 

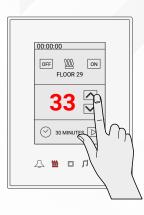
Long press on any buttons 1-12 for 6 seconds. The LED indicator for the pressed button will start blinking.







**3** Test the floor heating by changing the temperature and turning it OFF/ON.





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## **INSTALLATION MANUAL** MODEL: VLC-12CH-10A

## **PAIRING** (MANUAL PROGRAMMING)

#### SHUTTER COMBINATION PROGRAMMING

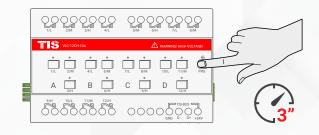
You can change any 2 channels in sequence like CH1 and CH2, Ch3, CH4...Ch11, and CH12 to be combined (interlocked) together to work as shutter/curtain control. To combine these 2 channels, complete the following steps manually:

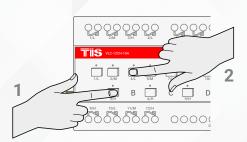


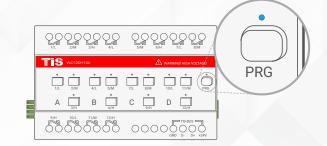
Press the PRG button for 3 seconds until the LED starts blinking rapidly.

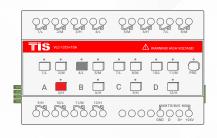
- 2>> Short press on the first button and then the second button that you want to combine as curtain control; for example, CH3 and CH4.
- Wait for few seconds until the PRG LED 3 🔊 stops blinking.

Test by turning the first button ON and 4 >> then the second button. Both buttons should not turn ON together. If you see that the first button is turning the other button off, that means that your buttons are successfully combined as shutter/ curtain mode.









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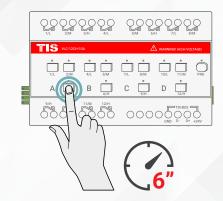
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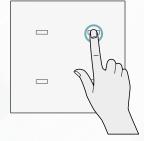
## **PAIRING** (MANUAL PROGRAMMING)

5 To program the curtain to any wall panel, press and hold the CH (shutter-Open) button for 6 seconds. The LED indicator of the pressed button will start blinking.

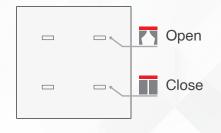


6>>

Short press on any button on the Luna, Mars, Terre or other wall panels.



**7** Test the button on the panel by short pressing for open/stop. Do the same to program the Close channel with another button.





To cancel the curtain interlock and return to lighting mode, repeat steps 1-3 above.



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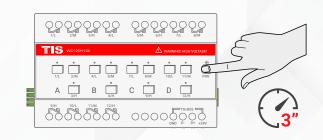
## **PAIRING** (MANUAL PROGRAMMING)

#### FCU COMBINATION PROGRAMMING

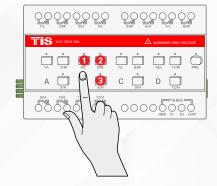
You can change any 3 channels in sequence like CH1-3, CH4-6, and Ch10-12 to be combined (interlocked) together to work as FCU (Low, Medium, High). To combine these 3 channels complete the following steps manually:

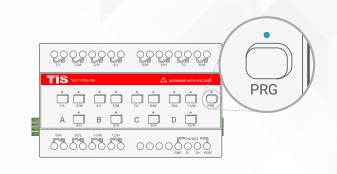


Press the PRG button for 3 seconds until the LED starts blinking rapidly.



2>> Short press on the first button, then the second button, and then the third button that you want to combine as FCU; for example, CH 4-6.





Wait for a few seconds until the PRG LED stops blinking.



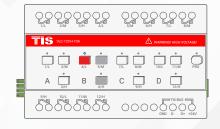
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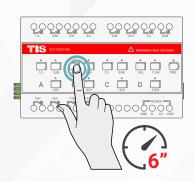
## **PAIRING** (MANUAL PROGRAMMING)

Test by turning the first button ON, then the second button, and then the third button. The buttons should not turn ON together. If you see that any button you turned ON is turning the other 2 buttons OFF, that means your buttons are successfully combined as FCU mode.



5>> To program the FCU to any wall thermostat panel, press and hold the first Channel L (LOW) button for 6 seconds. The LED indicator of the pressed button will start blinking,

**6** Solution to the Air Conditioning page in your Luna TFT, Mars AC, Terre AC, or other thermostat panel, and turn the AC ON.





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## **PAIRING** (MANUAL PROGRAMMING)

7》

Test your air conditioning by changing the fan speed from low to medium to high. Your relay should respond accordingly.



	200 CO 3/H 4/L		
TS VLC-12CF	+10A		I
• • • • • • • • • • • • • • • • • • •	4/L 5/M	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	,
A	В	C , D , 12/H	
9/H 10/L		GND D- D+ +24V	

**8** To cancel the FCU interlock and return back to lighting mode, repeat steps 1-3 above.



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### TROUBLESHOOTING

•	PRG Button Blinks Red Color Rapidly	<b>Reason:</b> The module's address conflicts with another device in the TIS network. You need to press and hold the PRG button for 6 seconds so the module can get a new address.
	Device PRG LED is not Blinking; Device not Powered	<b>Reason:</b> Device is not powered on; no TIS-BUS 24V supply connected to the device.
•	Device Button LED ON but lights not ON	<b>Reason 1:</b> Lights' neutral wire not connected <b>Reason 2:</b> Channel protection delay time is enabled in software.
	Wall Panels can't Pair with the Device	<ul><li>Reason 1: TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection.</li><li>Reason 2: Manual programming function disabled in the device (default is enabled).</li></ul>
	Wall Panels can't Control the Device Channels	<ul><li><b>Reason 1:</b> TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection.</li><li><b>Reason 2:</b> Programming address is wrong.</li></ul>
	Channel is turning off by itself after few seconds	<b>Reason:</b> It is programmed as shutter / curtain combination, and running time is enabled in the software.



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