

INSTALLATION MANUAL

TIS TRAILING EDGE DIMMER

Dimmer Module with Four Channels









Model: DIM-TE-4CH-1.5A



PRODUCT INFORMATION

This product functions with MOSFET technology to adjust the brightness of LED, CFL, and other energy-efficient lights. It operates on TIS BUS protocol and is capable of advanced light control in both residential & industrial projects.

PRODUCT SPECIFICATIONS

| | | | |
|---|-------------------------|-----------------------------|--|
|  | I/O Load Voltage | Number of channels | 4 |
| | | Nominal voltage | 110/230 V AC 50/60 Hz |
| | | Nominal current per channel | 1.5 A |
|  | TIS Bus | Number of devices on 1 line | Max. 64 |
| | | Bus voltage | 12-32 V DC |
| | | Current consumption | <30 mA / 24 V DC |
|  | Protection | Protection | Reverse polarity protection |
| | | Over current | High advanced protection technology |
| | | Over heat | Internal temp sensor protection |
|  | Operation | Over load | Dimmer coil max load up to 10A |
| | | Heat sink | Aluminum alloy with straight fin |
| | | Programming button/LED | For assignment of the physical address |
|  | Functions | 1-4 buttons | Manual ON/OFF and programming |
| | | By TIS-BUS | TIS protocol messages and commands |
| | | Programming | Manual & via software |
|  | Dimensions | Upgrading | 1 X mini USB for upgrading |
| | | Lighting control dimming | 4 separately controllable channels |
| | | Scenes | 4 different scenarios |
|  | Housing | Sequences | 4 different sequences |
| | | Width x Length x Height | 144mm x 90mm x 76mm |
| | | Materials | Fireproof ABS |
|  | Housing | Casing color | Black |
| | | Button color | Silver |
| | | IP rating | IP 20 |



BARCODE (UPC-A)





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 knowledge of the TIS Device Search software and instruction in the TIS advanced training courses.



Simple Installation

You can use either the DIN rail or fixing points to install this module.



Mounting Location

Install in a dry, well-ventilated location. Controllers may emit some mechanical noises. Consider this 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 recommended wire size for light channels is 2.5mm, and 4mm for the Line, Neutral, and Earth cables. The installer should consider the total current consumption when selecting the wires.



Warranty

There is a Two-Year warranty provided by law. The hologram warranty seal and product serial number are available on each device.





INSTALLATION STEPS

1 Turn off the main electrical source before installation.

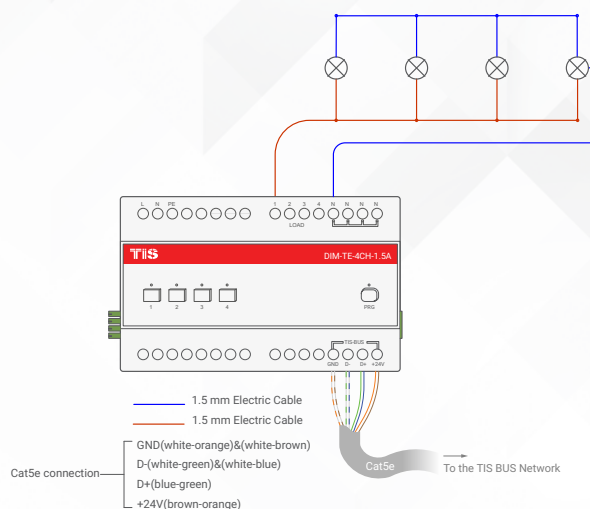
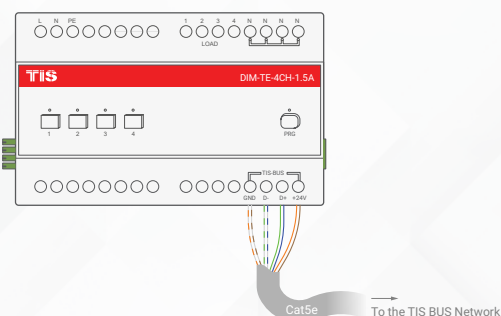
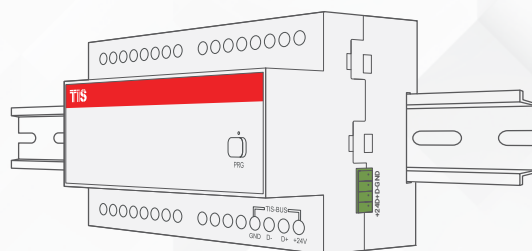
2 Mount the device on DIN Rails inside an approved enclosure. The device can also be installed using two mounting screw holes.

3 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.

4 Connect the load (light channel) electrical wires to outputs 1-4. The device is capable of managing up to 6 Amps, and each channel dims up to 1.5A loads. The installer should make sure not to overload the device and module channels.



WARNING! HIGH VOLTAGE

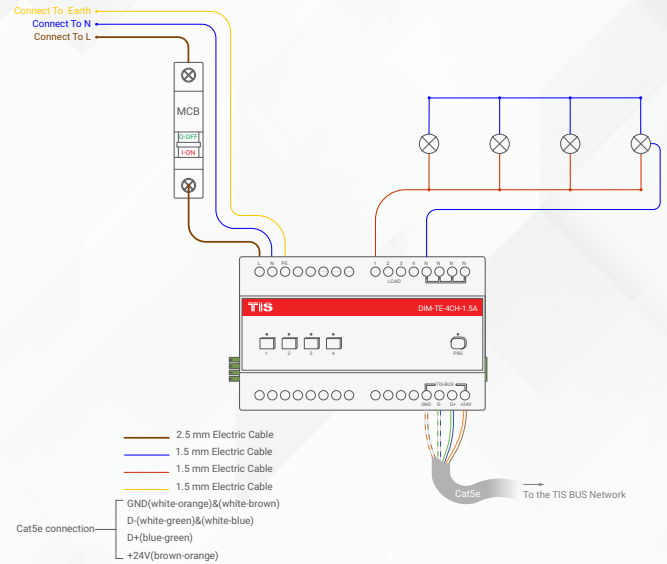




INSTALLATION STEPS

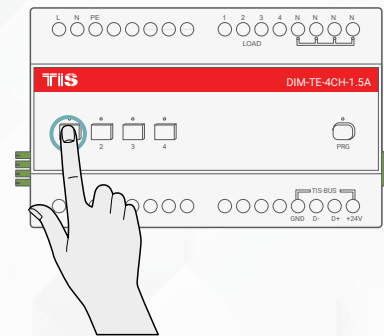
5»

Connect the L, N, and PE to Live, Neutral, and Earth cables, respectively. The device input must have an appropriate MCB to protect that load circuit.



6»

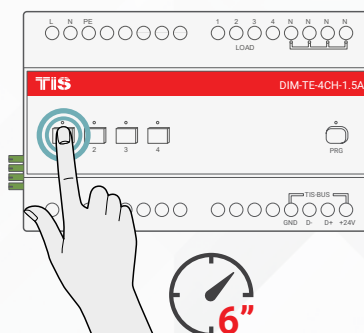
Turn on the power source, and then test the loads by a short press on the local on-device override buttons 1-4 to turn it ON/OFF. A long press on buttons helps to check the dimming function.



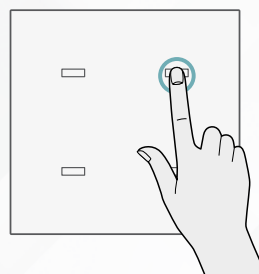
PAIRING (MANUAL PROGRAMMING)

You can pair the light channels with any wall panels. To do so, follow these steps:

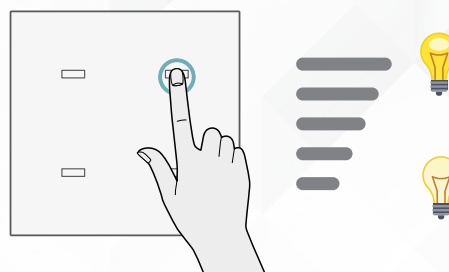
- 1» Press on any buttons 1-4 for 6 seconds so that the LED indicator of that button starts blinking.



- 2» Shortly press the light icons on any wall panel, such as Luna, Mars, Terre, etc.



- 3» Test the button on the panel by short pressing it for ON/OFF or Long Press to dim.





TROUBLESHOOTING



PRG Button Blinks Red Color Rapidly

Reason: 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.



The PRG LEDs do not blink, and the device is not powered.

Reason 1: There is no power or no connection to the L/N input.

Reason 2: The TIS 24V power supply is not connected to the TIS-BUS.



The Channel LED is ON, but the lights are OFF.

Reason: The lights' neutral wire is not connected.



The Channel LED is blinking fast and no output.

Reason: There is short circuit on the load, or load frequency is not compatible.



The load (lights) flicker.

Reason: Lights are not compatible with the dimmer. Use compatible loads or dimmers.



Wall panels fail to pair with the device.

Reason 1: The TIS-BUS connection has a problem, or the wire is short.

Reason 2: Manual programming function is disabled on the device. (it is enabled by default)



Wall panels fail to control the device channels.

Reason 1: The TIS-BUS connection has a problem, or the wire is short.

Reason 2: The programming address is faulty.