INSTALLATION MANUAL
DMX MASTER CONTROLLER
Din-rail DMX Actuator
Model: TIS-DMX-48

TIS
CONTROL EVERYTHING

ℹ PRODUCT INFORMATION

This product is a controller supporting 48 ballasts for scene control and grouped and individual lights control using the DMX standard.

PRODUCT SPECIFICATIONS

⚡	**Ports**	DMX	Standard DMX connection
TISBUS	**TIS Bus**	Number of devices on 1 line Bus voltage Current consumption Protection	Max. 64 12-32 V DC <25 mA / 24 V DC Reverse polarity protection
⚙	**Function programmable options**	DMX	Numbers of areas 24 12 Scenes 16 Sequence
⊞	**Dimensions**	Width × length × height	76mm × 73mm × 90mm
⬚	**Housing**	Materials Casing color IP rating	Fireproof ABS Black IP 20

CE RoHS COMPLIANT PCT ✓ FC

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

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.

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.

2

TIS CONTROL PTY LIMITED
SA , AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong
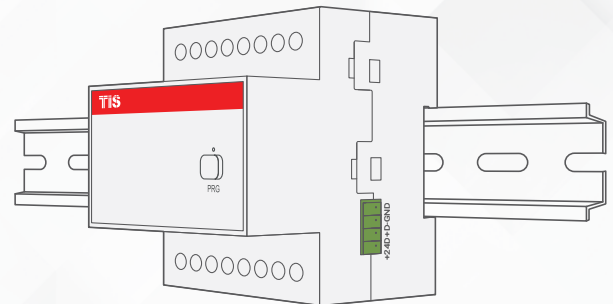
⚙ INSTALLATION STEPS

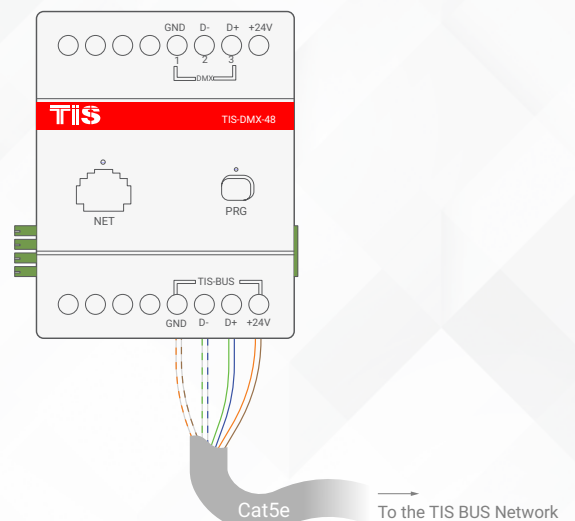**1 ≫** Turn Off TIS Power supply

⚡ **WARNING! HIGH VOLTAGE**

2 ≫ Mount the device on a DIN rail inside an approved enclosure. The device can also be installed without the use of DIN rail by 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.
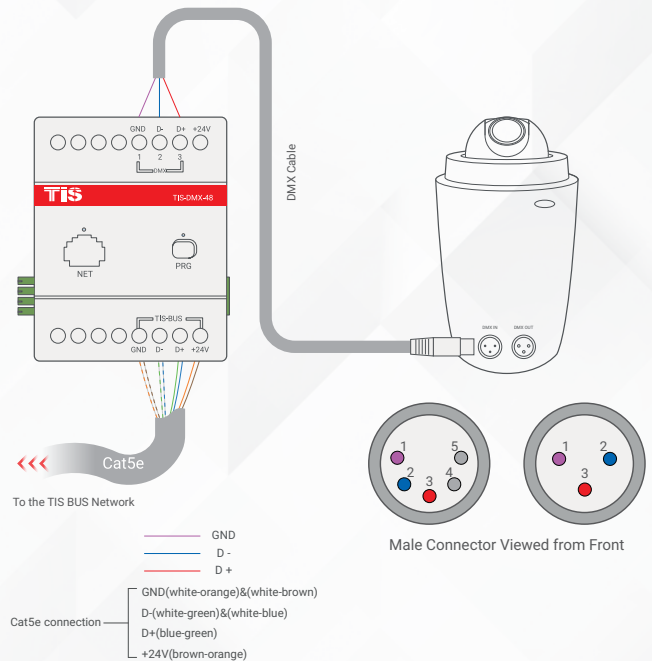

Cat5e → To the TIS BUS Network
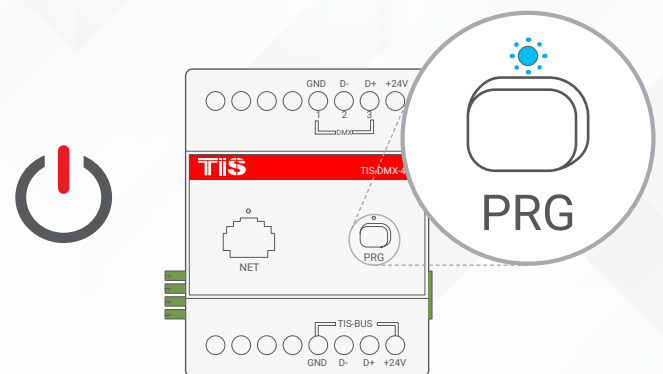
3

www.tiscontrol.com

⚙ INSTALLATION STEPS

4 » Connect DMX terminal (see DMX female connectors type) 1, 2, 3 pins to the DMX GND (1), D- (2), and D+ (3) in the TIS module.

To the TIS BUS Network

GND
D -
D +

Male Connector Viewed from Front

Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

5 » Turn on TIS power supply. The module's PRG LED should start blinking.

TIS CONTROL PTY LIMITED
SA , AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong

www.tiscontrol.com

TROUBLESHOOTING

?	**PRG Button Blinks Red Color Rapidly**	**Reason:** The Module address conflicts with other device in TIS network, you need to press and hold the PRG button for 6 seconds so the module can get new address
?	**Device PRG LED is not Blinking; Device not Powered**	**Reason:** Device is not powered on; no TIS-BUS 24V supply connected to the device.
?	**Wall Panels can't Control the Device Channels**	**Reason 1:** TIS-BUS connection has a problem; check the wires and make sure there's not a short circuit in the connection. **Reason 2:** Programming address is wrong.
?	**Device cannot control DMX devices**	**Reason 1:** There is a short circuit in the DMX connection. **Reason 2:** The address of the DMX device does not match what is programmed in the software.

TIS CONTROL PTY LIMITED
SA , AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong