

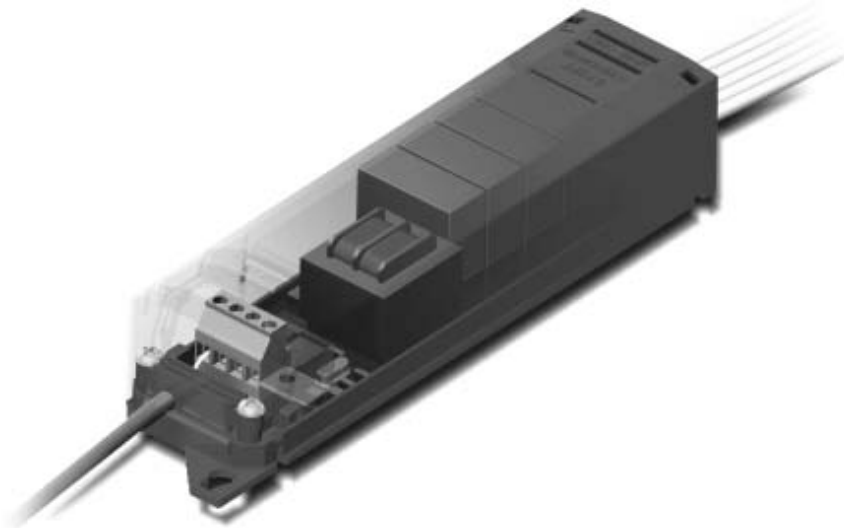
TDS RP4 relay panel



Installation and Operating Instructions

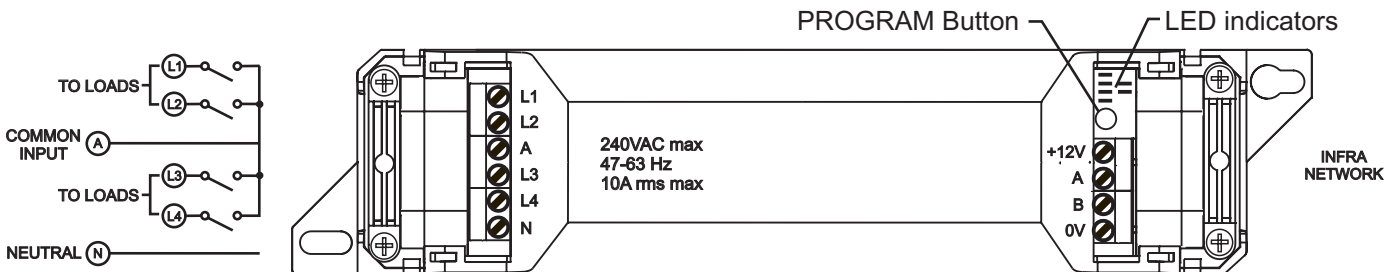
Model Numbers:

123004



Specifications:

AC Power Requirement:	240VAC at 50Hz	Relay Expected Lifetime:	100,000 operations at 240V / 4000VA incandescent
Number of Relays:	4	Physical Layer:	RS 485
Contact Type:	Single Pole Normally open - voltage free inputs	Cable :	4 pair (twisted pair CAT5 or similar)
Voltage Rating:	240 V AC maximum (5 - 380 VDC range)	Network Length:	1200 m maximum
Current Rating:	16 A maximum	Nodes per Network:	RS485 up to 127 nodes
Connection:	Screw Terminal Block 4,0 mm2 1,0-4,0mm2 stranded core 1,0-2,5mm2 single solid core	Enclosure:	IP 20
Wattage :	720VA incandescent per channel 240VA cos Ø= 0,4 uncompensated fluorescent	Isolation:	VDE 0829 Part 230
Relay Switching Time:	approx 10 ms set / release	Operating Temperature:	- 5 °C to +45 °C
		Storage Temperature:	- 20 °C to +55 °C
		Humidity:	15...95 %, not condensing



Shown with wire covers removed

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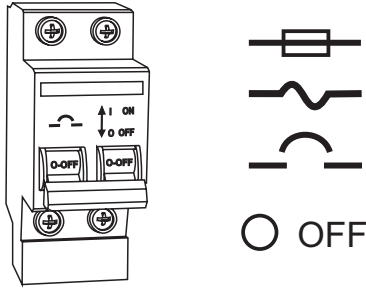
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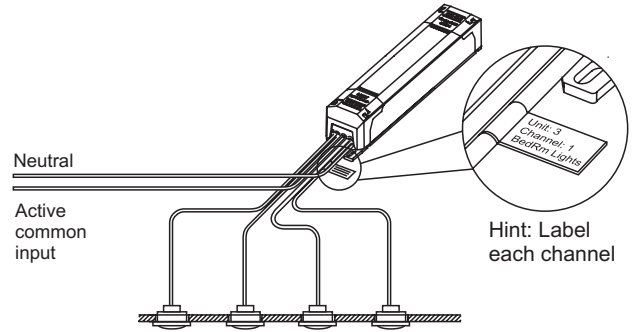
This unit operates at voltages which are potentially lethal. It is illegal for anyone other than a suitably qualified electrician or other qualified person to install or work on the fixed wiring of an electrical installation.

1 Isolate power



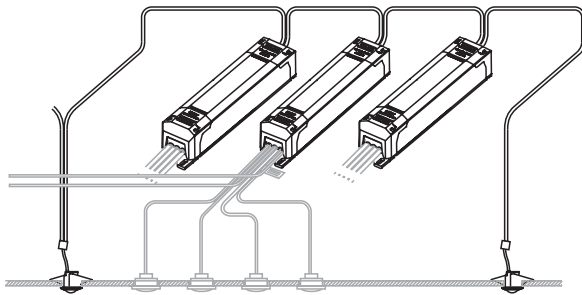
Disconnect power at the main switch board (by switching off circuit breaker or removing fuse).

2 Wire electrical Fixtures to RP4

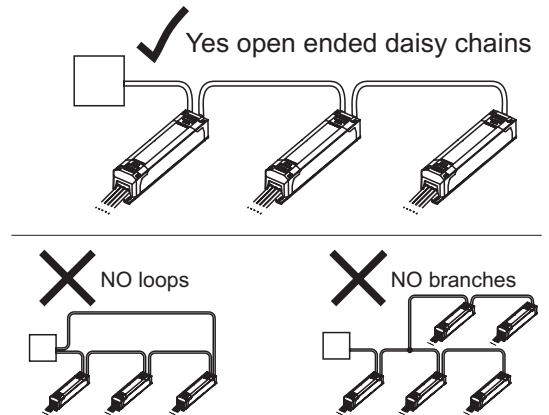


Wire/terminate electrical fixtures (light fixtures etc) to RP4 channels as per electrical plan. Assemble cable clamp securely.

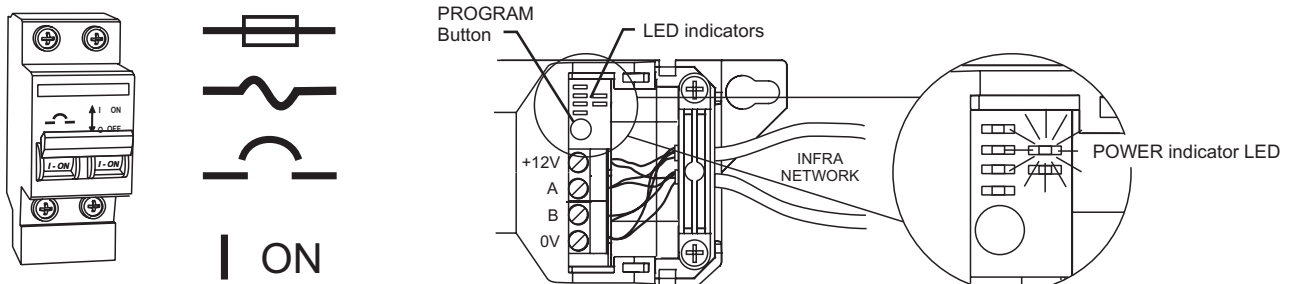
3 Connect RP4 to network



Connect RP4 units to RS485 network as per electrical plan. Assemble cable clamps securely.



4 Power Up



Shown with wire covers removed

Check wiring thoroughly, activate network and power up. The green Power LED will light.

WARRANTY

This product is guaranteed for 3 years from the date of purchase against any defects in materials or workmanship used in or associated with the manufacture and assembly of the equipment. The guarantee applies only to the original owner and is not transferable.

The guarantee does not cover failure due to accidental damage, lightning strike, misuse, short circuited, loading beyond rating, negligence or any alteration whatsoever to the form or content of the equipment. The guarantee becomes null and void if any adjustment, part replacement or repair is carried out by any person other than an authorised service agent.

The purchaser shall be responsible for any expenses involved in making the equipment readily accessible for servicing, and where the equipment is installed outside the capital city metropolitan area of the retailer, for any travelling expenses and any costs for transporting the equipment or parts thereof to and from the retailer or service branch. The purchaser must produce proof of the date of purchase together with this guarantee when making a claim. The retailer or service branch. The purchaser must produce proof of the date of purchase together with this guarantee when making a claim.

TARA Holding Pty. Ltd. reserves the right to change designs or specifications described in this manual without obligation and without notice.

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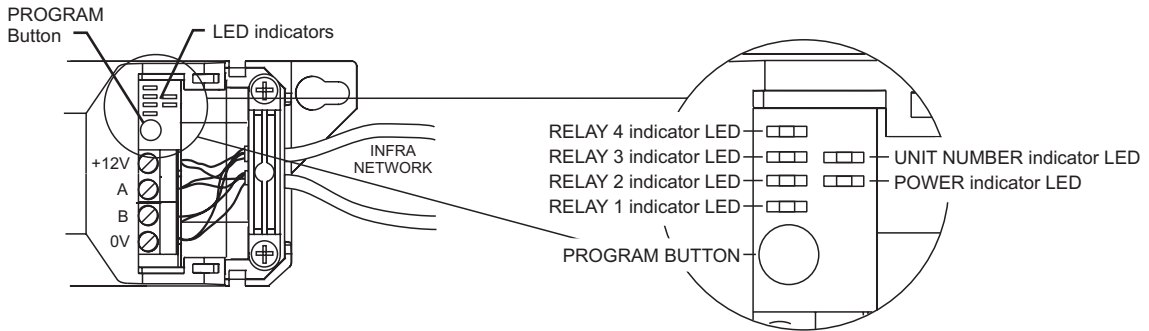
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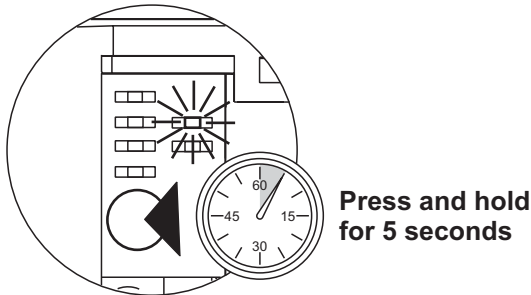
1 PROGRAMMING



LED indicators - shown with wire cover removed

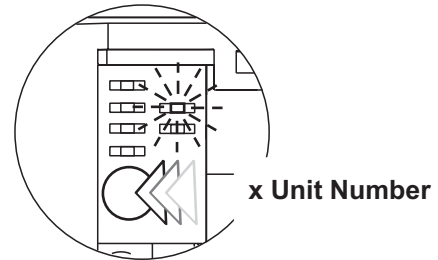
3 Enter Programming Mode

Each Tara Relay/Fan/Dimmer unit in the installation must be programmed with a unique identity so that it can be identified on the network.



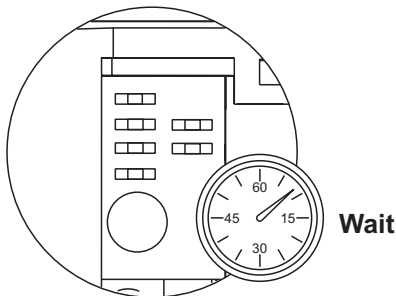
Press and hold the Program button using a pen or similar. After 5 sec. the Unit Number LED will light.

2 Program Unit Number



Use the Program button to enter the desired Unit Number (ie for Unit Number 5 press the button 5 times). The Unit Number LED will now flash to confirm the selection. NOTE: To confirm the Unit Number at any time, press the "Program" button briefly. The "Unit #" led will then flash to show the Unit Number value. The Unit Number is retained in non-volatile memory even when power is removed from the unit.

4 Exit Programming Mode



After a short wait all LEDs will go out. The RP4 is ready to operate. Replace wire cover.

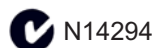
i Normal Operating Mode Information

All four relays can be controlled via RS485 network communications. Each relay will have the following Network Identity:

UNIT Number (1-255) : RELAY NUMBER (1-4)

So for example, if the selected Unit Number = 14, and the desired Relay = 4, then:

Network Identity = 14 : 4 (for that relay)



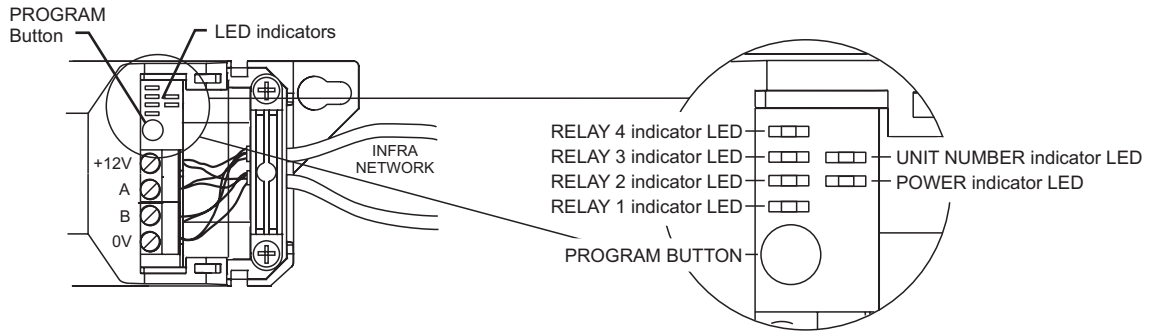
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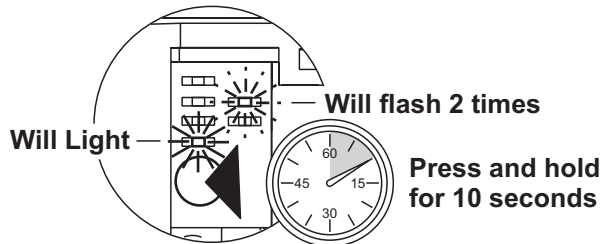
1 DIAGNOSTICS (if required)



LED indicators - shown with wire cover removed

2 Enter Diagnostic Mode

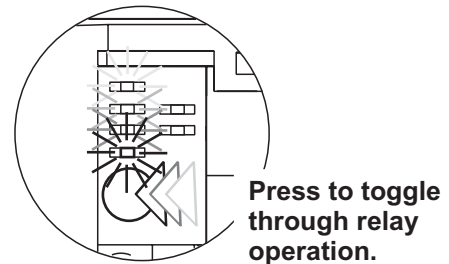
To enable testing of individual loads during installation, the following easy to use diagnostic functions are provided:-



Press and hold the Program button using a pen or similar. After 5 seconds the Relay 1 LED will light. After 10 seconds Unit LED will flash twice. The unit is now in Diagnostic Mode. The unit is offline and will not respond to Network communications at this time.

3 Toggle Through Relay Operation

Note that Relay 1 has been switched on.



Each quick press of the Program button will select the next step in the sequence.

i Toggle Sequence Information

Button Presses	LED	Function
0		Relay 1 ON
1		Relay 2 ON
2		Relay 3 ON
3		Relay 4 ON
4		ALL Relays ON
5		ALL Relays OFF

4 Exit Diagnostic Mode



Press and hold program button for 3 seconds. All LEDs will go out. The RP4 is ready for normal network operation. Replace wire cover.

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