

EBR-DIN-AC & EBR-DIN-AC-ET

DIN rail area controller module

Overview



The Area Controller allows all RAPiD lighting control modules on a floor to communicate with one another, as well as allowing communication between floors and / or a computer front end package. It also allows the system to be sub-divided into discreet areas, or zones.

The Rapid Area Controller has 3 switchable field BUS outputs for connection of floor networks. In addition there are 3 corresponding RJ45 ports for RAPiD field BUS monitoring via the engineer's laptop.

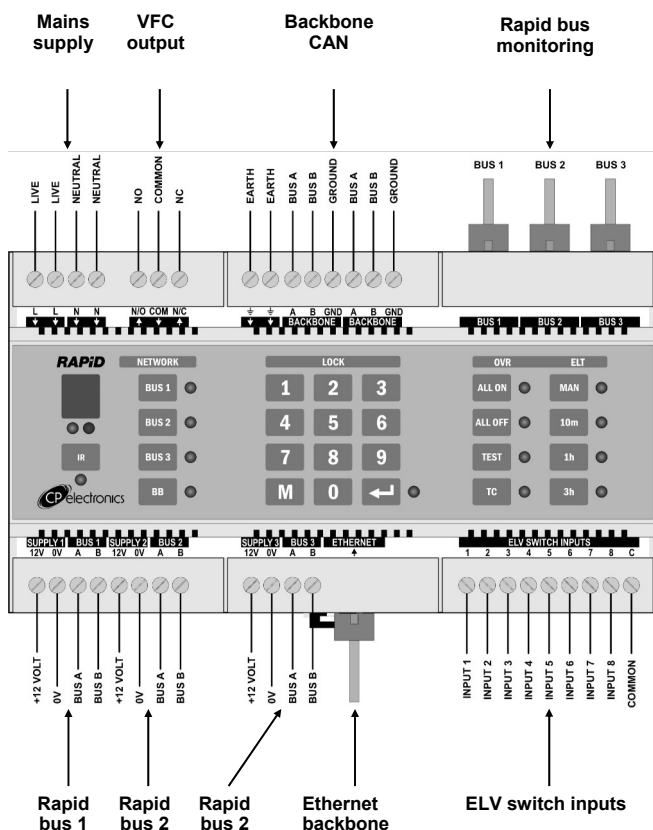
There is also optional TCP/IP addressability via an Ethernet Port to connect to the building network.

Built into the new Area Controller is a time scheduler with battery back up to allow for timed events such as local lighting and emergency test schedules. Functions such as emergency lighting test are implemented via the push buttons and numerical keypad on the front of the unit.

Pre-programmed emergency test durations of 3 hours, 1 hour and 10 minutes are available. The numerical keypad allows for a PIN lock as well as three levels of access for an engineer, contractor, or facilities management. There are also status LED's for each Rapid field BUS network and the backbone network between area controllers.

Features

Front features



Mains connections

- Live, Earth, Neutral.

ELV switch inputs

- 8 ELV switch inputs.

Volt free outputs

- 1 x normally open 10A 230VAC rated Voltage free relays. Used to switch external peripherals, such as HVAC and BMS systems.
- 1 x normally closed 6A 230VAC rated Voltage free relay. Suitable for emergency testing.

Communication ports

- 3 x power and Rapid network bus ports.
- 1 x power and Rapid network backbone bus ports.
- 1 x Ethernet port.

User interface

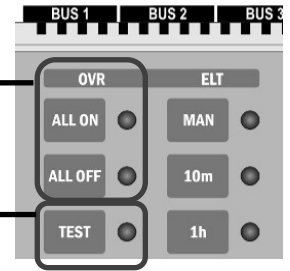
- IR receiver, transmitter and activation key.
- Status LEDs.
- Network bus selection.
- PIN lock numerical entry.
- Override keys for all lighting on/off, test and time scheduler enable/disable.
- Emergency lighting test keys; manual, 10 minutes, 1 hour and 3 hours.

User Keypad Operations

Manual Override Test Operations

[ALL ON] button turns ON all network connected lights.

[ALL OFF] button turns OFF all network connected lights.



Test Operations (version 2.00 onwards)

Key sequence to operate tests are from Test mode LED OFF state:

- X 1 Slow flash
Ramp to max, repeat
 Press the **[TEST]** button x 1, then 5 sec later, all network connected lights will ramp to the max level then switch off and repeat.
- X 2 Medium flash
Dims to minimum, emergency fittings will identify
 Press the **[TEST]** button x 2, then 5 sec later, all network connected lights will dim to the minimum level and DALI emergency light fittings will identify themselves with their status LED flashing.
- X 3 Fast flash
Dim up and down
 Press the **[TEST]** button 3 times, then 5 sec later, all network connected lights will dim to minimum for 10 seconds, then maximum for 2 seconds and then repeat.
- X 4 OFF
 Cancels Test
 Press **[TEST]** button 4 times cancels the test. It will also self cancel all tests after 30mins.

Manual Emergency Test Operations

(version v2.00)

Manual **[MAN]** button toggles ON/OFF emergency light tests networked connected lights for an indefinite period of time. Both permanent Live and DALI controlled lights are put into test.



(version v2.05 onwards) Manual **[MAN]** button operates in the following modes based on press sequence:

DALI & EM relay

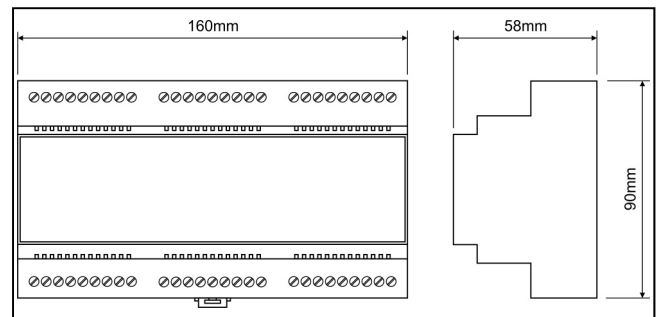
DALI Em test only

Cancel test

- X 1 Fast flash
 - X 2 Slow flash
 - X 3 OFF
- Time buttons [10m] (minutes), [1h] (1 hour), or [3h] (3 hours), selection will maintain this

Technical data

Dimensions	See diagrams opposite	
Weight	0.40kg	
Supply Voltage	220 - 240VAC	
Frequency	50Hz	
Relay rating	Normally open relay	5A
	Normally closed relay	5A
Terminal Capacity	2.5mm ²	
Power consumption	On 2920mW, Off 2920mW	
Temperature	-10°C to 35°C	
Humidity	5 to 95% non-condensing	
Material (casing)	Flame retardant ABS and PC/ABS	
Classifications	Insulation	Class II
	Purpose	Operating control
	Construction	Incorporated control
	Type of action	Type 1.B action micro disconnection
	Software class	Class A
	Pollution	Degree 2



Compliance



For further compliance information visit

Important

For lighting purposes only with suitable circuit protection. For fixed wiring only. Must be mounted in a suitable enclosure such that terminals are not exposed.

Part numbers

	Part number	Description
Control module	EBR-DIN-AC	DIN rail area controller module
	EBR-DIN-AC-ET	DIN rail area controller module with Ethernet
Accessories	UNLCDHS	Universal LCD programming handset



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