

CP Electronics EBR-DIN-AC Area Controller Module User Guide

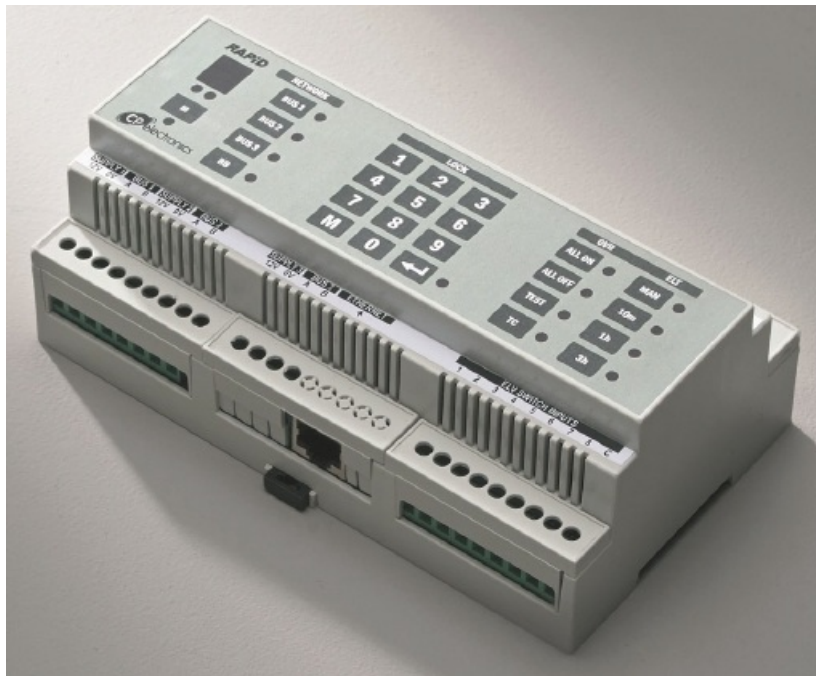
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CP Electronics EBR-DIN-AC Area Controller Module



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 backup 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 LEDs for each Rapid field BUS network and the backbone network between area controllers.

Front Features

- Mains VFC supply output
- Backbone CAN
- Rapid bus monitoring
- Rapid Rapid Rapid bus 1 bus 2 bus 2
- Ethernet backbone
- ELV switch inputs

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

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

Test Operations (version 2.00 onwards)

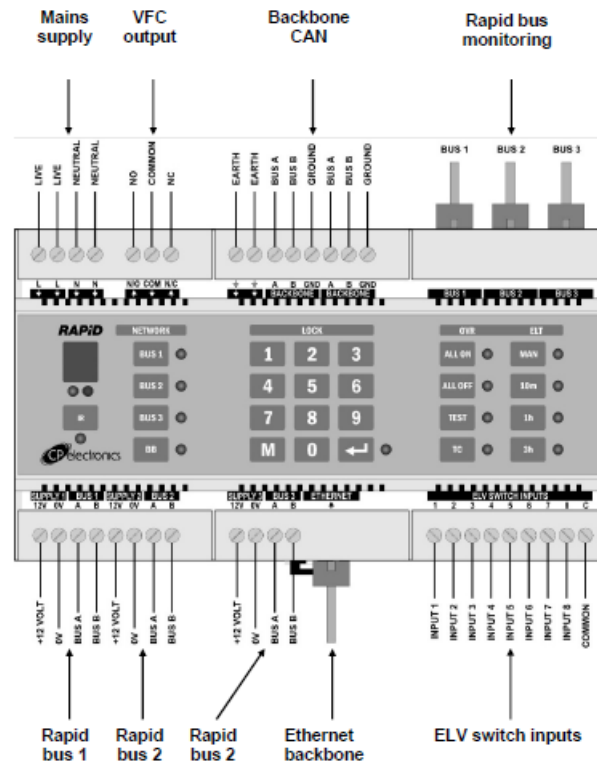
- Key sequence to operate tests are from Test mode LED OFF state:
- Ramp to max, repeat
 - Press the [TEST] button x 1, then 5 sec later, all network-connected lights will ramp to the max level then switch off and Vrepeat.
- Slow Press the [TEST] button x 1, then 5 sec later, all network-connected lights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

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 subdivided into discreet areas, or zones.
- The Rapid Area Controller has 3 switchable field BUS outputs for the 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



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

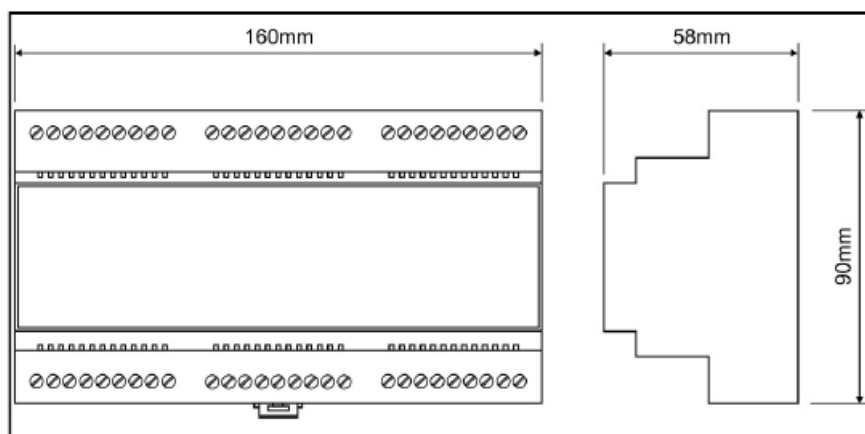
DALI Em test only

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 2.5mm²
- 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

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

Compliance

For further compliance information visit

Part numbers

- 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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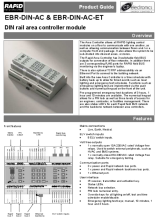
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Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice

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Documents / Resources



[CP Electronics EBR-DIN-AC Area Controller Module](#) [pdf] User Guide
EBR-DIN-AC Area Controller Module, EBR-DIN-AC, Area Controller Module, Controller Module, Module

References

- [CP Electronics | Brands | Legrand United Kingdom](#)

Manuals+,