

RAPiD

Fully addressable
lighting control system

Welcome to CP Electronics

Leaders in energy saving controls for commercial, public sector and domestic environments



RAPiD Fully Addressable Lighting Control System

Our most advanced system just became better. RAPiD is fully addressable and networkable, combining state-of-the-art technology and modular mechanics, with an easy to use graphical interface. It meets the most demanding lighting control and energy management applications, without the cost and complexity of other systems. Together with our new patented Energy Measurement Technology, RAPiD is the complete lighting control solution.

With the help of our system partners, we can provide a full turnkey design and commissioning service.

Features and Benefits:

Networking

RAPiD can be configured to control rooms, floors or an entire multi-floor building. RAPiD control modules are networked together on each floor, whilst multi-floor systems are linked together using RAPiD Area Controllers.

Where a building operates an open BMS system such as BACnet, we can interface using our gateway.

Adaptable

RAPiD provides a fully addressable scalable system, which can be re-configured to changing requirements.

Remote Monitoring & Configuration

RAPiD can be interfaced with a PC and proprietary software, which allows you to monitor and reconfigure any part of the lighting system. Event calendar functionality provides the ability to schedule lighting control events for specific events, cleaning, re-lamping and emergency testing of lights.

Our proprietary software, in conjunction with DALI EMPRO ballasts, allows remote monitoring and testing of emergency light fittings (optional).

Notional Corridors

RAPiD enables the system administrator to create notional corridors of light, keeping working staff safe and secure whilst providing significant energy savings.



Scene Setting & Recall

RAPiD allows the user to create and recall desired room lighting levels. Switching between scenes (e.g. meeting room) is easy and convenient with the stylish scene control panel.

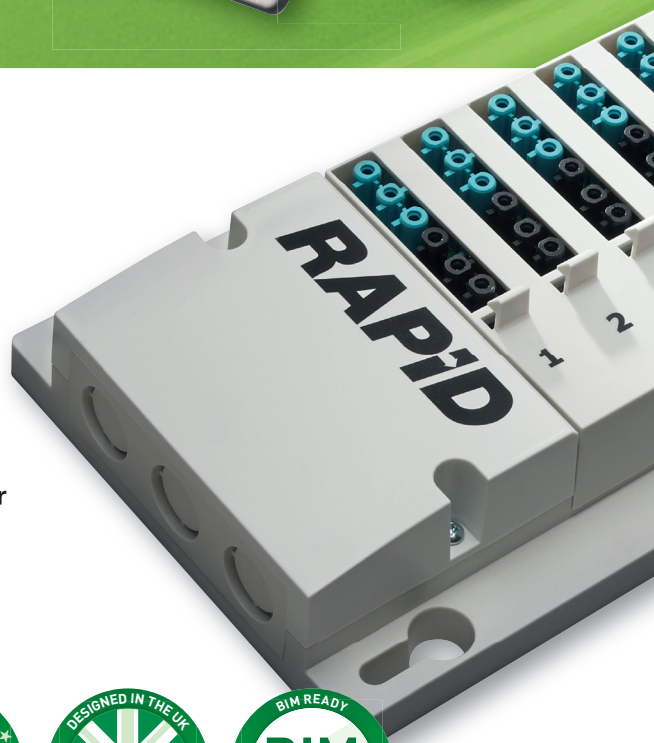
Graduated Daylight Linking

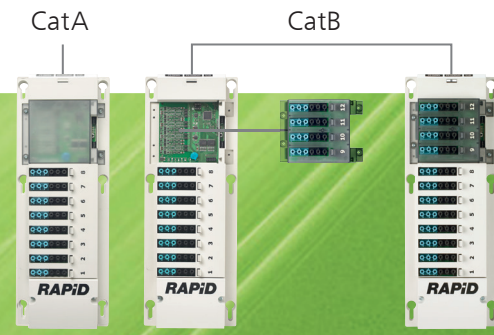
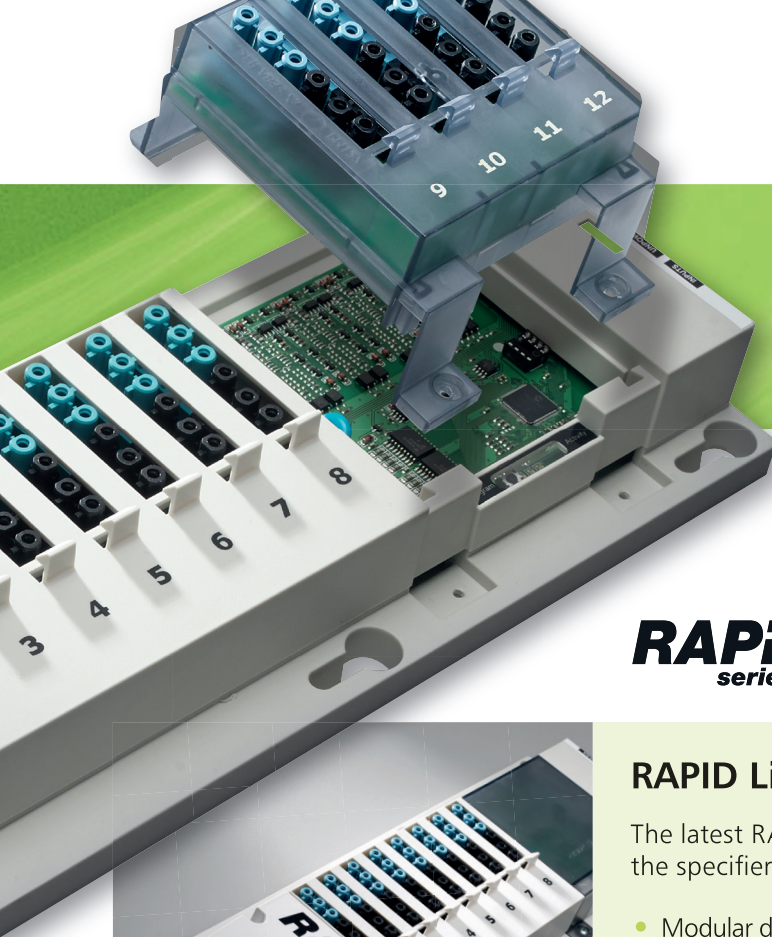
In conjunction with RAPiD dimming detectors, the system is capable of reducing the light output of luminaires gradually from lighter areas of a room (adjacent to the windows) to darker areas (away from windows). RAPiD saves the maximum amount of energy in a room, whilst retaining comfort levels.

Energy Measurement

Our patented Energy Measurement Technology provides actual energy usage data for all luminaires connected to the system. Energy Measurement allows for comprehensive metering of building wide lighting energy costs. Using a web based reporting suite reportable information is accessible via the front end PC or remotely.

For a full list of features and benefits, available customised wiring options and structured wiring solutions, please call our sales department for more details on +44 (0)333 900 0671.





Modular mechanics

RAPiD series 3's modular design adapts easily to the demands of an installation and can be fine tuned to suit specific client needs.

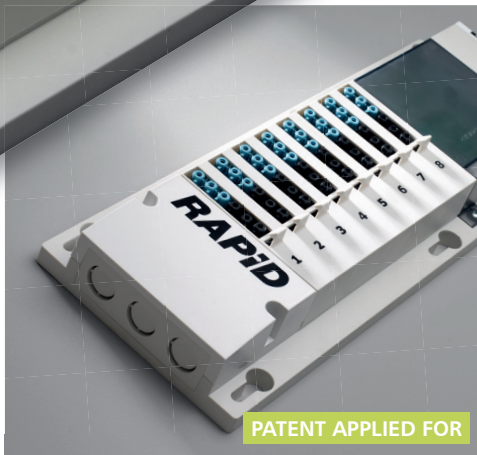
RAPiD series 3 System Highlights

RAPiD Lighting Control Module (LCM)

The latest RAPiD LCM has new and innovative features to benefit the specifier, installer and client alike.

- Modular design – specify for CatA; expandable for CatB: standard 8 outputs can be extended to provide an extra 4 outputs with a plug in module
- Reduced installation cost for CatA
- Reduced expansion cost for CatB stage
- Mixed dimming and volt-free output options
- Works with our patented Energy Measurement Technology.

NEW

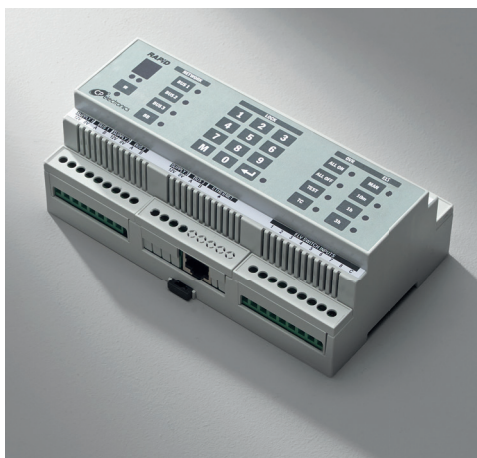


Area Controller

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.

- 3 RAPiD Bus networks
- Ethernet port – TCP/IP connectivity
- Time scheduled events
- Numerical keypad, with pass lock and 3 access levels
- Modular enclosure options available.

NEW



Energy Measurement

Energy Measurement is available exclusively on the new RAPiD LCM and DALI gateway (pluggable and DIN rail variants).

- Measures the energy consumption of all luminaires connected to an LCM on a RAPiD system
- Allows for real-time, web-based and offline reporting
- Measurement grouping – luminaire, LCM, area, floor, building
- The raw data is also available in XML format so that the user can utilise a third party tool for analysis.



PATENTED DESIGN



System Overview

NEW




1 EBR-LCM10-10DD

RAPID Lighting Control Module

- Expandable from 8 to 12 outputs
- Reduced installation cost for CatA
- Reduced expansion cost at CatB stage
- Mixed dimming and volt-free output options
- Energy Measurement.





2 EBR-LCM3-1DD-B

3+1 channel LCM

- Three addressable individually dimmable outputs
- Additional switched output to control non-dimming devices
- Switching relay, ELT relay, Volt free output
- 11 SELV switch inputs
- DALI/DSI Broadcast.




3 EBR-DIN-LCM5-5

5 Channel Hard Wired Lighting Control Module

- Individual addressing of outputs
- Adjustable off delays and group delays
- Adjustable start up lighting levels
- Scene control for each channel.


4 Single Channel Module available



5 EBR-LCM-DALIG64-B

Pluggable DALIG64 Lighting Control Module

- Up to 64 DALI addresses
- 11 ELV switch inputs
- IR handset and PC programmable
- Switching relay, ELT relay, Volt-free output
- Compatible with DALI emergency monitoring.






6 EBR-DIN-DALIG64

Hardwired DALIG64 Module

- Up to 64 DALI addresses
- 8 ELV switch inputs
- 3 voltage free relay outputs
- Compatible with DALI emergency monitoring.





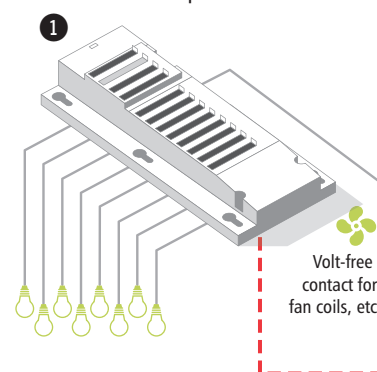
7 EBR-MOD-DALIG

Compact In-Line DALI Gateway Module

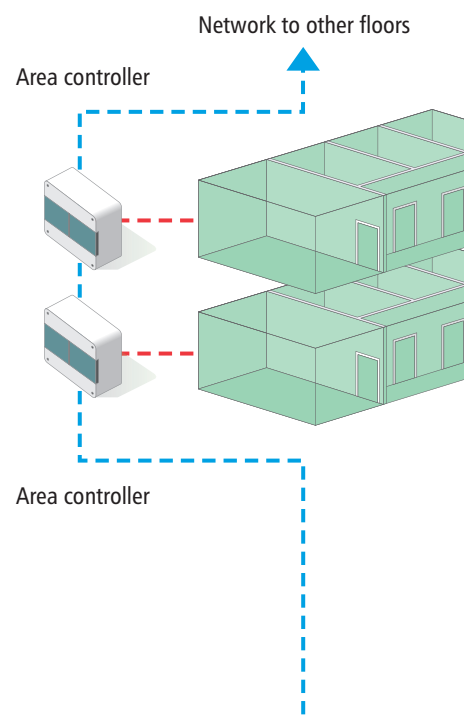
- 10 individually addressable channels
- Control and fault feedback indication per channel
- Auto re-addressing of failed ballasts
- Power for up to 4 peripherals (PIR, Switch)
- Compatible with DALI emergency monitoring.

RAPiD

Switched, DALI/DSI broadcast or analogue pluggable 8 channel module with 2-4 output module



Area Controller Mod



The RAPID system of fully networkable devices can now interconnect with all levels of energy management in building spaces, measuring and reducing energy consumption.

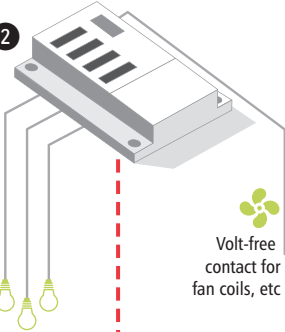
Feature packed, from front end monitoring to testing of emergency luminaires, it is also implemented by our in-house team of engineers or through our accredited CP system partners.

Switching/Dimming Devices

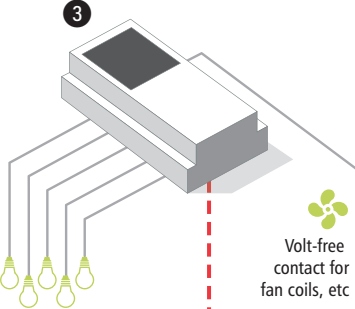
Switched, DSI/DALI Broadcast or Analogue

DALI Addressable

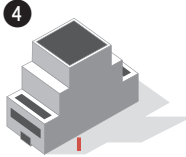
Broadcast DALI/DSI, switching 3 channel pluggable module



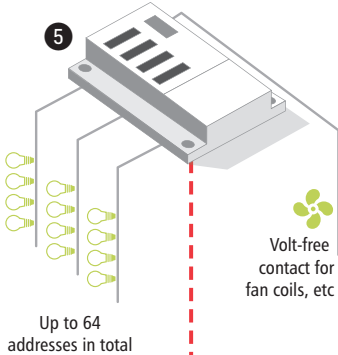
Switched, DALI/DSI broadcast or analogue 5 channel DIN rail module



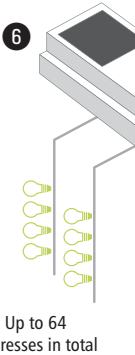
Switched single channel DIN rail module



Switched and DALI pluggable module



Switched and DALI Din rail module LCM, LMS



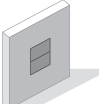
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Scene plate



User handset



Switch interface

User Interfaces



Mini PIR



PIR



Microwave

11

Presence Detection

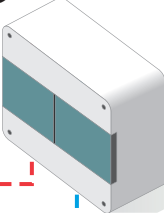


An-10 wireless gateway module

8

RS232

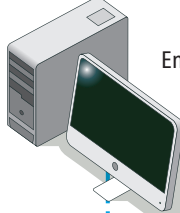
9



Area Controller

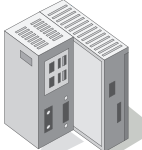
12

Front end reporting



Energy measurement & emergency monitoring

Open systems gateway



BACNET

Reporting and Monitoring

Systems Overview

8 AR-DN-RS232

RS232 Module

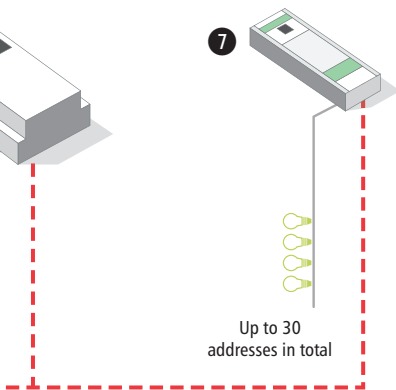
- 2 way gateway to third party system
- Communication interface for AV systems
- Communication via third party system protocol
- IR or PC programmable (dongle required).



Compact in-line addressable module

7

Up to 30 addresses in total



9 Area Controller

- 3 RAPID Bus networks
- Ethernet port – TCP/IP connectivity
- Time scheduled events
- Numerical keypad, with pass lock and 3 access levels
- Modular enclosure options available.



10 EBR-4SC

- Up to 8 scenes, plus a separate off scene
- Adjustable fade rates up to 99 minutes per scene
- Support for 99 individual circuits
- Up/down override
- Room divide input suitable for up to 3 interconnecting rooms.



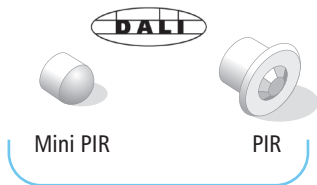
11 Presence Detection

- Passive Infra Red (PIR)
- Microwave
- Mini PIR
- DALI addressable PIRs.



Mini PIR

PIR



12 EBR-CFE

Front End PC

- Reconfigure and/or monitor the status of control devices
- Reconfigure lighting groups via PC
- Emergency monitoring – lamp error feedback
- Energy Measurement.



13 Energy Measurement

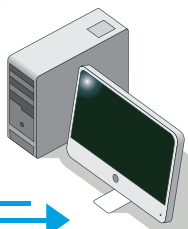
- Actual energy usage data
- Per luminaire measurement
- Measurement grouping – luminaire, LCM, area, floor
- Real time reporting
- Web based reporting
- Offline reporting.



Factors

13

Energy measurement & emergency monitoring



Remote monitoring (off-site support/maintenance)

Reporting Options

Our Service Philosophy



Customer Needs

CP Electronics is a world leader in helping organisations to achieve their energy consumption objectives.

- We benefit from over 40 years in the design and manufacture of cutting-edge energy saving controls for heating, lighting and ventilation.
- We recognise the individual needs of businesses; how energy control has to work within their overall objectives.

Develop Solutions

Our product depth and quality enable us to develop solutions in commercial, public sector and domestic environments of all sizes.

- Moreover our Sales Engineers are expert at working closely with you to achieve effective and efficient results.



Deliver Solutions

Attention to detail and quality has made CP Electronics a name to trust.

- Exceptional reliability has even enabled us to provide a 5 year warranty as standard, on all our products.
- Approximately 74% of goods are shipped within 24 hours from receiving an order*.

Implement & Support Solutions

CP Electronics offer an unrivalled level of technical support to our customers during specification, installation, commissioning and maintenance. You will benefit from:

- Experienced engineers with a broad knowledge of specifier, contractor and client requirements.
- Comprehensive advice that you can rely on with all aspects of lighting control design and installation.
- Telephone and on-site support as necessary.
- Downloadable product user guides from www.cpelectronics.co.uk.
- **APPS** Free, downloadable lighting specifications that are Part L building regulation and BREEAM-compliant.



The site contains Apps for a wide range of categories including offices, education, healthcare, hotels and leisure.



Apps contain information, specifications and schematics.

*Average in 2014

Training, Maintenance & Commissioning



Training

At CP Electronics, we can further enhance your understanding of the capabilities of the RAPID range. Our fully structured training includes:

- Experienced trainers with advanced product knowledge.
- Tips on how to optimise lighting control solutions using CP Electronics products.
- Training sessions tailored to suit all levels.
- Training available at CP Electronics London Head Quarters or off-site.
- Ongoing training and support for the future.

Commissioning

Our team of trained commissioning engineers will help you optimise the performance of your RAPID system, maximising potential energy savings. This also allows you to focus on handing over your project as efficiently as possible.

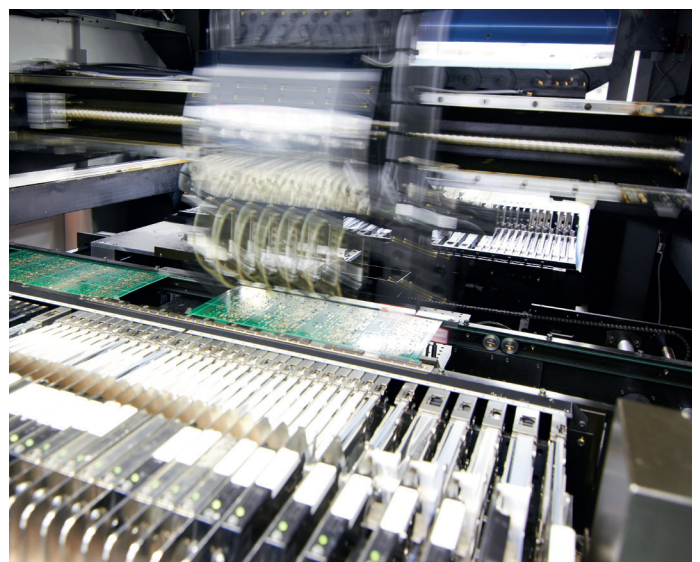
- On completion of commissioning, we will provide the all-important Commissioning Certificate for your project handover.
- Our commissioning service includes a 12 month return-to-site warranty, and is supported by our standard product warranty (5 year return-to-factory policy).
- We can also provide additional post commissioning support, ensuring your project complies with building regulations, such as BIM and 'soft landings'. This gives your client a premium project handover.

Maintenance Contracts

To protect your investment and give you peace of mind, it makes sense to schedule regular maintenance.

- CP Electronics' experienced engineers work proactively with you to ensure that your lighting control solution provides a comfortable working environment, and operates efficiently and reliably around the clock.
- Our pre-agreed maintenance packages help you to plan annual costs within agreed budgets, effectively reducing the frequency and therefore cost of ad-hoc call outs.
- Whilst a building space may evolve over time, RAPID products can be adapted and recognised with the support of our technical services.

CP Electronics offer a wide selection of standard and bespoke maintenance packages to suit your needs. For more information please see www.cpelectronics.co.uk/support-services.



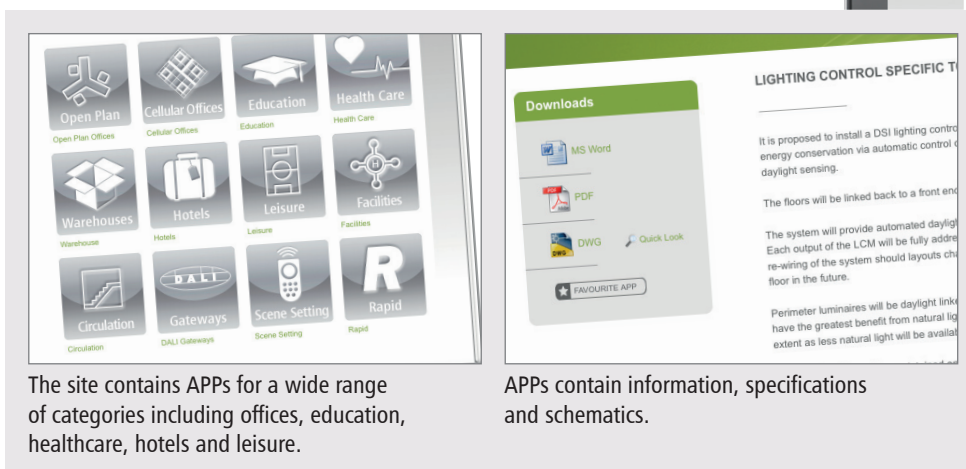
APPS from CP Electronics

CP APPs is a professional tool to download energy saving lighting control specifications to assist with compliance of Part L of the building regulations and BREEAM.

CP APPs has an intuitive menu, which allows you to navigate simply and quickly towards your solution. Clearly defined building applications feature downloadable material to build into your specifications documentation.

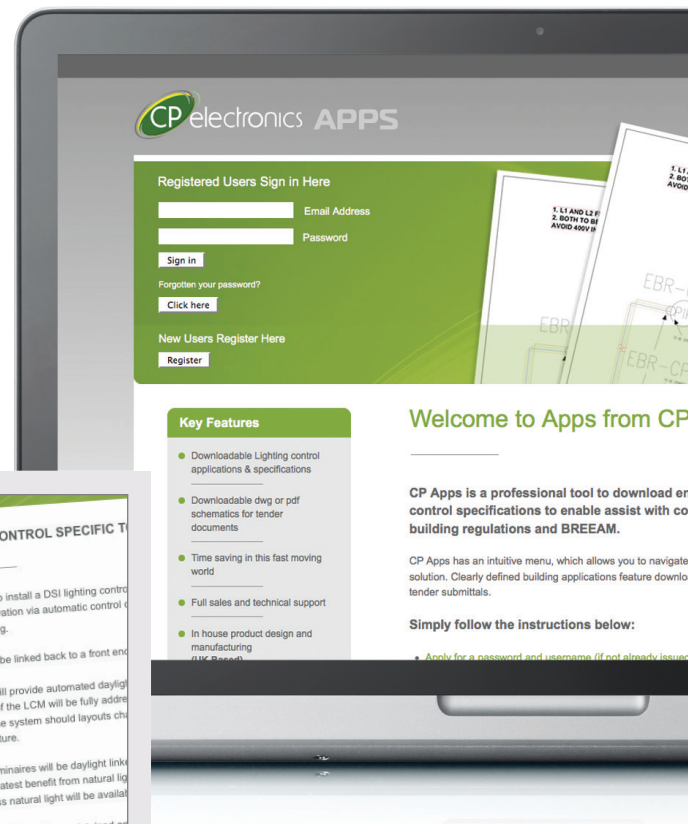
Key Features

- Downloadable lighting control applications and specifications.
- Downloadable dwg or pdf schematics for tender documents.
- Fully editable V21 Documentation.



The site contains APPs for a wide range of categories including offices, education, healthcare, hotels and leisure.

APPs contain information, specifications and schematics.



To register, simply visit www.cpelectronics.co.uk/apps and apply for your password and username.

CPD Seminars

Certified by the Construction CPD Certification Service, CP Electronics offer in-depth focused lighting control CPD courses on topics such as stand-alone and fully addressable lighting control solutions.

Key Features

- Our dedicated team share their industry experience so you gain a competitive edge.
- Enables your business to adapt positively to changes in your industry.
- Availability at CP London headquarters or in your offices across the UK.
- Our CPD seminars count towards an individual's CPD requirement and follow best practice guidelines.

For more information on our CPD seminars please contact cpd@cpelectronics.co.uk.



Delivering projects together

A selection of recent projects that are benefiting from our RAPID lighting control system.

Leadenhall Building 'Cheese Grater', London



Building: Large floor.

Brief: DALI dimming, occupancy control, absence detection, individual room control. Daylight linking and scene setting also features.

Products: RAPID with An-10 wireless control. PIR and microwave detectors.

Fact: The building is covered with approximately 70,000sqm of glass – the same area as nine football pitches.

Building: Large distribution centre.

Brief: Install a fully addressable lighting control system to control over 10,000 DALI luminaires via a front end PC. The central control includes DALI emergency monitoring, timed events and DALI error feedback reporting lamp and ballast failures.

Products: RAPID with hard wired DALI gateway modules, microwave detection and daylight sensing in the sorting areas. Office areas consist of pluggable DALI modules, PIR occupancy detection and daylight sensing. All controlled via a front end PC.

Fact: The site has previously operated as one of the largest sorting offices in the world.

Mount Pleasant Mail Centre, London



Euston Tower, London



Building: A 34 storey purpose-built detached office building providing impressive views over Central London.

Brief: Provide lighting control over multiple floors of the building.

Products: Our pluggable EBR-LCM10-10 was used, along with front end monitoring to provide the user with flexible control and monitoring of the lighting from a PC.

Fact: This building provides 1 million square feet of office, retail and leisure accommodation.



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