



lighting control CPDs



what's new?
what's coming?

If you want to design the most advanced and efficient systems for a project, you need to know what technology is out there and also what is in the pipeline for the future.

Delmatic are at the cutting-edge of controls and we have our finger very much on the pulse regarding the latest innovations in controls, networks, and connected services.

Our experience is available as a resource through a series of CPD seminars and webinars covering topics from general overviews of lighting management to in-depth studies of DALI.

The CPD courses, which have been assessed against best practice guidelines, are accredited by CIBSE and count towards an individual's CPD requirement.

2022 Seminar Topics

Delmatic CPD courses range from an overview of lighting management to focus seminars providing in-depth studies of topics such as DALI and open protocols.

Seminars last an hour including 'question and answer' session and are delivered online or held at a client's premises over a breakfast or lunchtime period. Two hour in-depth courses are also available as are customised courses which are created to suit a particular client's requirements.

The courses are accredited by CIBSE and count towards an individual's CPD requirement.

Seminar topics are headlined below with detailed content listed on the following pages.

For more details or to arrange a CPD seminar email cpd@delmatic.com

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“With their wealth of experience and breadth of applications on UK and international projects Delmatic were ideally placed to provide us with a factual, informative and enjoyable seminar.”

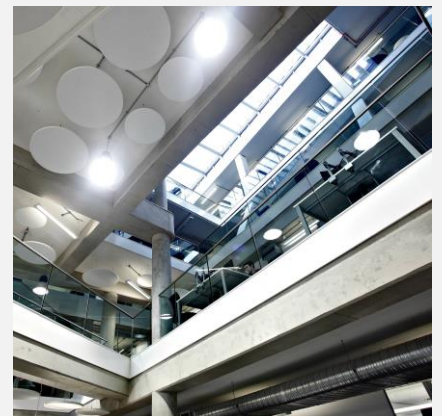
Overview of lighting management

This seminar provides a comprehensive overview of lighting management and covers key topics including DALI-2, system architecture and smart integration as well as the latest in Biodynamic, IOT and Wireless solutions.

The fast-paced seminar is packed with animated schematics to explain the concepts of lighting management and the application of the various forms of control to different building areas and types of lighting.

The seminar covers the following topics:

- overview of lighting control
- the latest in connected solutions
- the largest lighting control system in the world
- DALI-2 technology
- DALI-2 Buswire, Broadcast, Plug-in and IP DALI applications
- IOT and Wireless solutions and mixed-mode systems
- multidiscipline sensors incorporating environmental monitoring
- system architecture
- open protocols – DALI-2, Lon, BACnet and MQTT
- interoperability & integration
- DALI-2 emergency light testing & monitoring
- biodynamic white-tuning control
- graphical management and monitoring and Apps
- heatmapping and space utilisation monitoring
- futureproofing



*“Very informative presentation
I really enjoyed and benefitted from it”*

Mark C. Director, UK Consultancy

DALI-2

DALI is the world's leading dimming technology and a global standard that has revolutionised commercial, domestic & architectural lighting and control.

This seminar focuses on the latest DALI-2 standard and explores the various ways in which DALI-2 may be applied. .

The seminar reviews the typical DALI-2 buswire application but also investigates other approaches including DALI-2 Broadcast and DALI-2 Plug-in as well as DALI-2 Wireless.

The seminar looks at expanded DALI solutions including DALI-2 presence detectors, photocells, multisensors and switches, as well as DALI-2 relays for control of services including water solenoid valves and blind motors.

The seminar concludes with an exploration of the latest in DALI-2 emergency light testing and monitoring as well as Biodynamic white-tuning and RGBW controls.

The seminar covers the following topics:

- introduction to DALI-2
- DALI-2 approaches - Buswire, Broadcast, Plug-in, Wireless
- application to commercial, residential, educational & transport projects
- DALI-2 emergency light testing & monitoring
- Biodynamic white-tuning control
- DALI-2 integration with other services and systems
- IP DALI-2 Ethernet to the Edge solutions
- how to design with DALI-2



Delmatic DALI systems are installed throughout the Shard and Crossrail

“I thought I knew about DALI – now I do!”

Tony L, Design Engineer, UK Consultancy Practice

Detailed design and application

Delmatic are often asked “where should I start?” when applying lighting controls to a project, and this seminar provides the answers.

The seminar reviews available control approaches and technologies, and considers their application to various project types based upon the type of project, the lights sources to be controlled, the degree of flexibility required, and the preferred installation approach.

The seminar acknowledges that one size rarely fits all and that a typical project has many different requirements which are best met by selecting a hardware and control approach that best suits each individual area while forming part of a networked system.

The seminar includes recommendations and optimum design approaches for typical types of projects and building areas, and a sequence of flowcharts and animated schematics guides delegates through the technology and hardware selection process.

The seminar covers the following topics:

- overview of lighting management
- what are you trying to achieve?
- assessment of flexibility requirements
- review of installation and control approaches
- range of control technologies – DALI-2, Lon, BACnet and IP
- putting it all together
- design and application – where to start your design
- system architecture – how to apply your design
- enhancing sustainability through smart integration
- emergency light testing & monitoring
- how do other people do it ? some examples



*“Excellent seminar
gave a really detailed insight”*

Mark B. Design Manager, UK M&E Contractor

Lighting controls for residential projects

High-end residential projects are increasingly implementing advanced digital controls previously only applicable to major commercial developments.

As light sources and occupant expectations change, DALI digital control is increasingly being applied to residential schemes while connected control of shading and temperature is becoming the norm.

This focussed seminar looks at the implementation of latest DALI-2 technology, considers the installation considerations for residential schemes, and explores the various ways in which DALI-2 may be applied.

The seminar reviews the application of systems to public and amenity areas of residential developments, to high-end apartments and penthouses, as well as integrated management and monitoring for managed apartments and hotel guest room controls.

The seminar covers the following topics:

- overview of lighting controls for the residential sector
- review of DALI-2 and other dimming technologies
- comparison of the various DALI-2 approaches
- DALI-2 application for public and amenity areas
- DALI-2 application for apartments
- integration of shading and other controls
- energy optimisation through occupancy sensing
- design and application – where to start your design
- system architecture – how to apply your design
- DALI-2 emergency light testing & monitoring (public areas)
- user interfaces including Touchpanels, IP and Apps



“Excellent seminar – gave a really detailed insight”

Martin T, Associate, UK Consultant

Open systems & interoperability

seminar ref:124

Open systems are all around us, enabling us to sync devices, share images, documents & data with colleagues, family & friends, as well as communicate information with other devices around the world. However, all too often, buildings are equipped with stand-alone, proprietary systems that do not communicate or share information.

Proprietary systems tie clients into expensive and restrictive support from one vendor and limit potential for integration. By contrast, open, interoperable systems optimise efficiency by pooling key data and, by sharing hardware, offer enhanced operation at competitive cost.

This seminar challenges delegates to look at open systems and interoperability, focusing on the advantages of open technology to consultants & clients, the technical benefits of integration and interoperability, as well as the capital and operational cost savings.

The seminar includes recommendations and design approaches for typical types of projects, and a sequence of flowcharts and animated schematics guides delegates through the integration process.

The seminar covers the following topics:

- overview of lighting management
- introduction to open systems
- advantages of open systems
- introduction to open protocols – Lon, BACnet and MQTT
- interoperability & integration
- optimising efficiency with open, integrated systems
- achieving capital cost savings through open protocols
- achieving operational cost savings through open protocols



“Very informative, especially in relation to open protocol integration with other applications”

Mark W. Project Manager, UK Contractor