

More-Solutions

Lighting Control



More Solutions has been established for over 8 years and specialises in development and installation of lighting control and power monitoring solutions. More Solutions is large enough to provide a wealth of experience yet small enough to be flexible - from single room presence and LUX control to systems for large commercial buildings and stadiums we have provided solutions. Through our wealth of experience and use of all lighting technologies including wired, wireless, C-Bus, D-Bus, DALI, and MLS, individually or in a combination, we provide the best solution for the building without compromising the building needs to fit a single platform. More Solutions always provide the right solution for our customer, their building and its occupants.

Lighting Control – Systems.....

More Solutions has provided systems to control the lighting and power monitoring at various prestigious commercial facilities. They can supply solutions ranging from the simplest to advanced fully automated, future proofed systems. The lighting control systems installed are robust solutions, controlled locally via switches and touch screens and networked back to PCs which provide enhanced functionality such as building-wide scene control and scheduling. More Solutions has supplied systems for industrial facilities and many famous British sporting stadiums including Manchester City (the venue for the 2002 Commonwealth Games) and Wembley National Stadium.



.....and Features



Systems and Features:

- DSI
- DALI
- C-Bus
- Rugged Bus-Wire and Mainsbourne communications
- Wireless switching
- Telephone switching
- Integrated Shutter/Blind controls
- Partition Interfacing
- Scene/mood setting and dimming
- Advanced presence and daylight sensing
- Automated emergency test
- Centralised control which can be linked to building management systems.
- Energy Use reports

Wembley Stadium.....

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Lighting Control – Wembley Stadium

Using PC based lighting controls enables different lighting solutions to be programmed for different uses and events. As well as greater flexibility the PC based solution offers greater economy, switching on only those lights which are necessary in the areas required and for the correct time.

Monitoring lighting and power use can also ensure the system continues to provide the most effective solution or enables the system to be reconfigured accordingly.



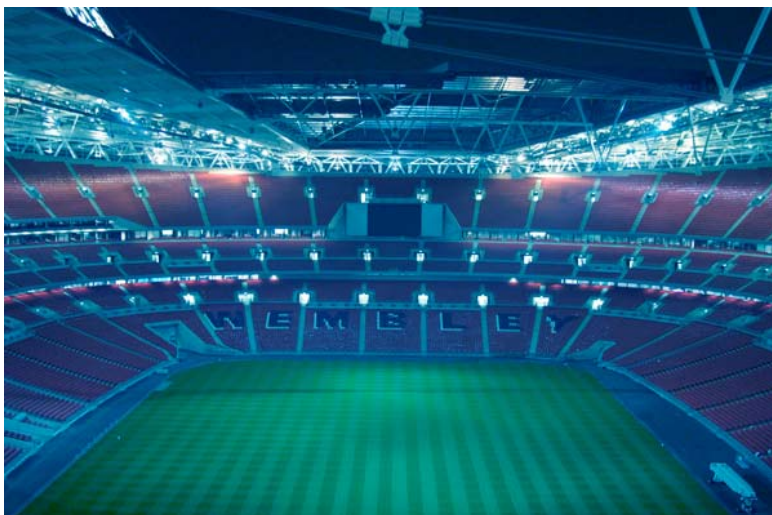
Whilst many large industrial buildings also have a mix of scenarios with different areas, stadiums have the added complication of the amount of power required to bring on all the lights for national and international competitions. Full power for the main flood lights has to be phased on and monitored to ensure that the capabilities of the incoming power feeds, the internal switch gear and cabling are not exceeded.

More Solutions was responsible for the software for the hardwired lighting management system for Wembley Stadium.

The stadium has a networked lighting control system throughout controlling lighting across the whole stadium and its exterior, including the pitch, concourse and circulation/service areas, through to the iconic arch.

The system provides scheduled lighting control with integrated event lighting management taking the entire stadium through stages starting several hours before an event, during the event itself, to the safe departure of the thousands of fans after the event.

Traditional flood lighting is combined with 'hot strike' lamps capable of creating lighting effects during concert events.



Large areas of the stadium can be controlled using a small number of simple controls, enabling fast and reliable control throughout the stadium.

The lighting system comprises a dual PC configuration with full redundancy in case of PC failure; linked to multiple hardwire networks comprising hundreds of relay units, dimmers and local switches controlling thousands of individual lamps.

Lighting Control – Benefits.....

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Lighting Control – Benefits



Why control lighting at all?

As well as greater flexibility the PC based solution offers greater economy by switching lights off when not needed. Lighting control has major benefits:

- Flexibility, allowing changes to building use to be accommodated
- Cost savings, from reduced energy, lamp usage and maintenance
- Scene/Mood setting with scheduling
- Power management and monitoring
- Production of real time and historical data
- Aids fault diagnosis and isolates faults
- Modifications and additional units added with minimal/no disruption

Facilities Management

More Solutions provided a fully automated lighting system for the McLaren Formula One team HQ. Using a networked installation for the lighting; each area of this large prestigious technology centre and car plant was divided into separate control areas allowing flexibility over the control and power use. It also enables new units to be added and/or specification changes to be made without expensive and time consuming system reconfiguration and with minimal (and often no) changes to cabling.

In the lighting control system for Mercedes Benz, More Solutions used DSI technology integrated with C-Bus to dim fluorescent light fittings. Light levels were set manually, as required, by engineers using C-Bus pushbuttons, and PIR sensors were used to switch lights off when areas were not occupied.



Retail Outlets



The lighting control system for the B&Q DIY retail warehouse chain needed to reduce energy consumption but maintain a safe and comfortable level of light on the shop floor.

More Solutions used C-Bus light level sensors together with a C-Bus controller to monitor the light levels from sensors mounted in the roof space. At commissioning the sensors were calibrated according to the actual floor light levels being achieved through the combination of natural and fluorescent light. This enabled the system to be programmed to achieve the required floor light levels using the ceiling level sensors.

This information was used to control store lighting via DALI on an aisle by aisle need basis rather than flood the whole store with unnecessary light. This reduced energy consumption considerably.

Manchester City Stadium.....

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Lighting Control - Manchester City Stadium



More Solutions were responsible for the software for the Clipsal C-Bus lighting management system for Manchester City Stadium, nominated for the 20th Anniversary 'Best of the Best' British Construction Industry Awards in 2007. The installation of the system was a collaboration between Clipsal and More Solutions (known as Quarella Ltd at that time). The flexibility of the software enables different lighting and power solutions to be programmed for different uses and events.

Manchester Stadium was built in two stages. For the 2002 Commonwealth Games the stadium had a seating capacity of around 38,000 and included a temporary

North Stand which was removed after the games. The removal of the stand allowed an additional tier of seating and a football pitch to be built below the level of the running track used for the Games.

With the completion of the replacement North Stand the seating capacity was increased to 48,000 to meet the needs of the Manchester City Football Club. From the outset the lighting system was designed to cater for both stages of the build. Only a short period of commissioning work was required on completion of the redevelopment with the software substantially unchanged from the version used throughout the Games.

Partnerships

More Solutions and Schneider have worked successfully together on many prestigious lighting and power management projects over recent years. More Solutions provided the software for the Clipsal C-Bus lighting management system used in major projects such as Manchester City Stadium, the McLaren Technology Centre and Wembley Stadium.

More Solutions and Schneider have recognised the mutual benefits of working together and the natural synergy their partnership brings by formalising their arrangement. More Solutions and Schneider provide a unique partnership with a wealth of knowledge and experience that together are poised to exploit this expanding market and look forward to many more years as market leaders in this field.

More Solutions are also collaborating with Moeller on their new wireless lighting control system. This new partnership brings together their wealth of experience in hardware, application software and installation. More Solutions also have a long standing relationship with the major ballast and controls suppliers such as Triodonic, Osram, Honeywell and Phillips to make use of their individual strengths when delivering customer specific solutions utilising DALI, or DSI technologies.

More Solutions

More Solutions are well known for their problem solving capabilities, exceptional diagnostic skills and their ability to write flexible, easily adaptable software. Their unique working method has won them considerable respect within the industry and has led to well known industry suppliers requesting More Solutions' help in successfully solving complicated problems on their behalf.

More Solutions can offer a cost effective, adaptable and flexible solution to suit your needs. Whether you contact us at the planning stage, during build or as a retrofit we will be pleased to help. Contact More Solutions on **0845 458 9555**, who will be happy to discuss your requirements.



More Solutions Ltd – 0845 458 9555