



ACC Liverpool

– an illuminating installation

ACC Liverpool isn't just home to a host of international music stars or exciting sporting events; it's one of the greenest venues in Europe.

It's also one of the United Kingdom's most flexible entertainment, sports and business facilities, housing the BT Convention Centre – with facilities including a 1,350-seat

auditorium, 18 breakout rooms and 7125m² of exhibition space – and the 11,000 capacity Echo Arena.

As part of its build, ACC Liverpool was designed to reduce energy consumption, but it's the sustainable features such as the intelligent Philips Dynalite lighting control system that are really reaping benefits.

PHILIPS

dynalite 

Client requirements



Accommodating a diverse range of performances and events requires high levels of flexibility and functionality across all areas of the facility from seating/stage configuration to audio-visual control.

It was imperative that the lighting control system match the flexibility and functionality of the venue by allowing lighting schemes to be quickly and easily reconfigured for different events.

“Connectivity and flexibility are two key benefits.”

The Philips Dynalite solution

The Philips Dynalite solution was to introduce a single integrated lighting control and automation system that supports the entire facility, which has brought a high degree of adaptability, reconfigurability and integration to the lighting.

The system includes over 200 dimming controllers, relay controllers and user control panel interfaces, which are linked via the Philips Dynalite sophisticated peer-to-peer communications serial bus network DyNet. A selection of controllers were fitted with dual communication ports allowing for both DyNet & DMX512 communication.

Integrated functionality

Importantly, these technologies can be tailored to the requirements of individual events and performances.

Every dimmable controller is factory set with a top output level of 90 per cent to maximise lamp life and minimise energy consumption.

Using EnvisionManager software, Philips Dynalite has made what is essentially an extremely complex lighting system very easy to operate and manage. The powerful software provides control status and scheduling information with the click of a mouse.

Easy operation

Operated via any one of seven on-site computers, EnvisionManager's simple graphical interface makes it easy for users to identify every light, circuit and channel across the entire complex and effortlessly manipulate lighting schemes.

Much of the lighting system is automated. In fact, staff can customise the graphic interface to include 'push buttons' or lighting macros, which is ideal for routine lighting tasks and setting common exhibition and pre-show lighting schemes.

Staff can also select different lighting schemes via locally mounted user-control panel interfaces.

Areas within the building are fitted with motion sensors to reduce ACC's electricity consumption, which is part provided by five turbines on the banks of the Mersey, between ACC Liverpool and the Albert Dock.



“The Philips Dynalite lighting control system has brought high degrees of operational flexibility and energy optimisation to ACC Liverpool.”

Products and technology used

ACC Liverpool's numerous automated processes are supported by a single integrated control and automation system linked via Philips Dyalite's sophisticated peer-to-peer communications serial bus network, DyNet.

One of the key products behind the lighting control system is EnvisionManager software, which has guaranteed that the operation and management of ACC Liverpool's 900-plus lighting channels is straightforward and can be achieved via one of seven on-site computers.

Time-saving integration

The master computer and server is integrated into the Philips Dyalite system via the DyNet network and located in the central management centre.

The remaining PCs located across the site are connected to the server via a dedicated local area network (LAN).

Importantly, the Philips Dyalite controllers are equipped with DMX512 functionality to support the complex's DMX512-based theatrical lighting system.

Built-in intelligence

It's the intrinsic modularity and distributed intelligence of the Philips Dyalite system that has really ensured maximum flexibility and functionality.

Further reliability is leveraged via the control system architecture. Individual lighting distribution boards are separated using gateways, which means if there is a disturbance or failure it doesn't bring the whole network down.

Key client benefits

The integrated and automated lighting control system installed by Philips Dyalite enables advanced levels of lighting control. Lighting schemes can be quickly and easily reconfigured to meet the needs of the different events and performances held at the complex.

An extremely complex system has been made very easy to operate and manage giving staff real operational flexibility.

With staff able to control lighting from any one of seven computers throughout the complex or from a series of user control panel interfaces, the day-to-day management of the complex's lighting is a simple task.

The Philips Dyalite system has also delivered powerful energy management, which is saving running costs.



“The Philips Dyalite control system has made reconfiguring lighting schemes for different events absolutely effortless.”



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