

St. George Leagues Club

SYDNEY

C-Bus Energy Management System

*Case Study*¹



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Lighting Management in a League of its Own

With an influx of more than 1000 visitors per day, St. George Leagues Club Ltd, located in Sydney's southern suburbs is one of the most popular leagues clubs in Australia. The club decided to upgrade its lighting facilities with Clipsal's C-Bus Lighting Management System in the new Premier's Lounge and Bistro. After discussions with Kim Finigan, the Chief Engineer of St. George Leagues Club Ltd and John Parker of Parker Electrical Pty Ltd, a number of special switching functions were implemented.

Lighting Control in Club Areas

The club set out to maximise mood lighting flexibility and convenience and to achieve energy savings in the Premier's Lounge and Bistro. These areas required extensive use of preset dimming, two way and three way switching, time out functions and master control.

The lounge and bistro areas comprise two bars, a stage and toilet facilities. The master control switches were located in the bar area with the ability to control half the lounge area and the stage from this central location. Multi-point dimming was successfully used to dim low voltage lighting, while fluorescent loads were switched using C-Bus Relay Units. C-Bus switches were also located at the entrances of the lounge to allow main lights to be turned on and off, including trace lighting. A single switch was programmed to control a number of load circuits.



Flexible programming in Stage Areas

Within the stage areas C-Bus was programmed to enable greater lighting flexibility. Here, preset dimming is required during performances without affecting lighting levels in the other half of the function area. Additional Dimmer Units were required.

C-Bus Key Input Units were located near the stage for local control, programmed to function as a sub-master to the main switches located in the bar area. Conventional wiring methods would have been expensive, requiring large amounts of mains cable, with limited flexibility for future changes.

Within the stage area change rooms, switches were programmed as dimmers and timers to control lighting, with time out periods of one hour. Exhaust fans, used to remove smoke from the function area are also controlled by C-Bus.

The main toilet area uses energy saving C-Bus Infrascan Motion Sensors. These turn lights on after entry to the area and then time out after 10 minutes (a longer time out period of 30 minutes was set for the disabled toilets).

Quick Installation

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Location of the Key Input Units required minimal wall chasing, due to the use of low cost Unshielded Twisted Pair (UTP), "telephone cable". The UTP required a mere 10mm gap in the gyprock which was quickly plastered and painted over. The C-Bus Key Input Units, based on the popular Clipsal 2000 Series products, were installed using standard mounting brackets and wall boxes. The total electrical refurbishment was completed in less than 2 weeks with C-Bus programming and commissioning requiring only one day to complete. Latter revisions were completed within 2 hours using the Installation Software without the need for any rewiring.



The total electrical refurbishment, including C-Bus retrofit was completed in less than two weeks.

The Benefits of C-Bus Control

Future C-Bus Installations

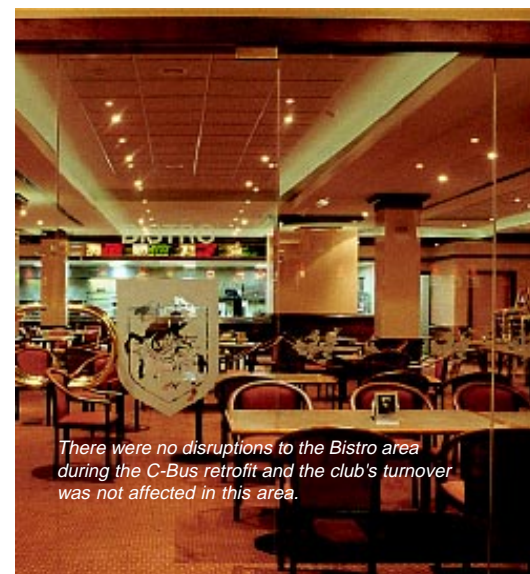
The Club is very impressed with C-Bus, in particular with the ability to control lighting from a central location. Eventually, the club wishes to establish central lighting control for the whole building.

The club is currently looking to retrofit the gaming areas with C-Bus. Consisting mainly of poker machines, the club wishes to program this area so that a single Key Input can simultaneously control and dim a group of lighting circuits consisting of 50 by 50W low voltage downlights, tasks for which C-Bus would be ideal.

Features	Benefits
Multi-way switching in lounge and bar areas, requiring only single 'telephone' cable to interconnect Key Inputs	Reduced installation time, and achieved savings in mains cable
Preset multi-point dimming control	Flexible to use, excellent mood lighting flexibility
Infrascan control of lighting in toilets	Energy savings
Total refurbishment completed in less than two weeks with minimal disruption	Club continued to operate during refurbishment with no loss of Club's turnover

Installation Data

Project	St. George Leagues Club Premier's Bistro Lounge Bistro, Sydney, NSW
Installer	Parker Electrical Pty Ltd
CIS Products Used	5751 PIR Occupancy Sensors (Infrascan) 5140R Four Channel Relay 5100PC PC Interface 5100PS Power Supply, 320mA 5031N, 5032N and 5034N Key Inputs 5104D400 Four Channel Dimmer
CIS Costs (Trade Pricing)	\$5,500
Total Electrical Costs	\$155,000
Total Project Value	\$2,500,000



There were no disruptions to the Bistro area during the C-Bus retrofit and the club's turnover was not affected in this area.

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