

INTEGRATED CONTROL Ltd

105 Chestnut Drive, Sale, Cheshire M33 4HS.

Case Studies For C-BUS Control and Management Systems

Project : Etihad Airlines Manchester Airport Premier Lounge

Project No

Revision

Client : Cross Electrical Services

8055

A

Project Introduction :

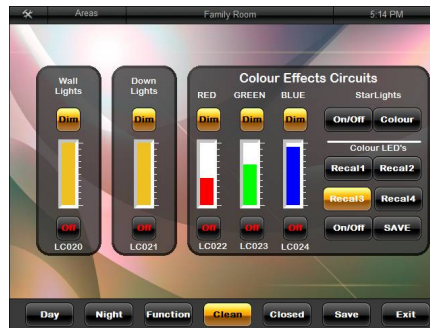
Integrated Control Ltd (ICL) in association with Cross Electrical Services were asked by the Main Builder To Design, Supply, Install and commission a system that would control the complete lighting scheme for the new Premier Lounge at Manchester Airport for Etihad Airlines. This new lounge was one the first in the line of a complete remodelling of all the airlines lounges across the world and would be the blue print for the ones to follow.



The system chosen by ICL to achieve the control of the various lighting types was C-BUS, a product manufactured by Schneider Electric. The main decision for using this product is the flexibility and expandability of the system and that it would allow control of the diverse lighting types that were required by the interior designer. The system was designed by ICL to control DMX, Dali, Switched, DSI, Leading Edge, 0-10V Analogue lighting circuits, all from one product range making integration the key to a successful project.



The Front screen allows you to select the whole building or individual areas to control using the 5 scene buttons along the bottom of the screen.



The DMX and Dimming Controls for the Family Room where Colour changing and Lighting levels can be adjusted and stored for quick access from the 5 Scene Buttons.



Scene Setting for the Main Lounge lighting area has been split into three sub zones which are selected from the buttons on the right hand side.

The entire system was controlled from a C-BUS colour touchscreen flush fitted into the reception desk. ICL wrote custom controls allowing the user to easily control and adjust all the functions of the lighting, from changing the Colour of the DMX lighting to dimming the Main Lounge Lighting. Scene setting was also provided to give quick level changes of lighting in various locations where numerous lighting circuits were present.

The user is able to change the lighting levels in any area by simply selecting the desired area from the dropdown menu at the top of the screen or they can set the Whole Building if desired. By pressing one scene like "DAY" the whole building or selected area is set to DAY mode. All the areas controlled by the system use the same 5 scenes, "Day, Night, Function, Clean and Closed". The lighting in each area is easily changed and stored using the Slider based Graphical User Interface (GUI) by the Client. These are then accessed by using the buttons at the bottom of the screens.



Adjacent to the colour touchscreen a Saturn DLT was installed for quick access to pre-defined functions of the system like cleaning, shutdown and night modes, this gives the user the ability to quickly adjust the building lighting with one press of a button.

The whole system is fully automatic, once the lighting mode has been set the facilities lighting needs no user control, no local wall switches are used on the system, to add extra energy conservation PIR presence detection has been used in the toilet and store room areas allowing the lighting to work independently from the main system.

System Summary :

Total Networks :- 1
 Total Circuits Controlled :- 94 Circuits
 Total Switches :- 1 Total PIR's :- 8
 Network Interfaces :- 34 CBUS units