

# **C-Bus Network Automation Controller - 5500NAC**

## **Consultant Specification Document**

## 1. C-Bus Network Automation Controller – 5500NAC

A C-Bus Network Automation Controller shall be utilised where automated, scheduled or remote access to the lighting control system is required. The C-Bus Network Automation Controller shall be capable of but not limited to:

### Logic Engine

- Have an in-built Web Server to provide interactive graphical user interface that caters for connections from multiple smart devices such as PCs, tablets and smart phones. The installer shall be able to create individualised visualizations (dashboards) using the internal editor.
- Provide integrated support for Schedules, Holidays and Scenes within the logic engine.
- Provide remote access for users to monitor/adjust installation settings such as Lighting, Blinds, Shutters etc.
- Provide visualisation access for up to 50 users through native user access support.
- Provide 2 concurrent connections to C-Bus network allowing for programming changes via Toolkit whilst performing scheduled/logic commands on the C-Bus network.
- Provide "High Level Integration" to "Building Management Systems" for control of HVAC, Metering, Lighting, Audio Visual, Blinds, Shutters, Room Occupancy, etc.
- Provide logic support for Modbus devices, through internal and custom-made Modbus device profiles.

### Physical Features

- Provide a communication gateway to multiple interfaces using, but not limited to RS232, RS-485, Modbus, C-Bus, BACnet IP, TCP/IP.
- Provide full status feedback through an 8 LED front panel display.
- Provide manual override to all channels of any C-Bus output unit via remote On/Off feature utilising the C-Bus connection.
- USB to provide a direct connection to the 5500NAC without configuration changes. An additional Ethernet connection with re-addressable IP address is also available
- A front accessible programming port providing the ability for product or network programming / configuration changes without removing the Distribution Boards' escutcheon cover.
- Hardware and software reset points accessible from the front of the unit without removing the Distribution Boards' escutcheon cover.
- Programmable remotely via TCP/IP connection.
- Provide network conditions which are unrestricted by external traffic, bandwidth or other network devices
- Manufactured in a 6 DIN mount format with similar dimensions to Standard Australian MCB'S/ RCBOs allowing for installation into standard Load Centres alongside lighting and power protective devices (MCB / RCBO).

### Support

- Automatic backup of system file and sending it to an off-site storage via email.
- In-built logging and trending capability on lighting, energy consumption and On/Off status of monitored objects for up to 10 years (for long term data) with additional settings for increased precision and time resolution.
- SMS and email notification through integration with external web-service application.
- Interface for weather data from external websites such as yahoo weather or openweathermap via an Ethernet connection.
- Integration with external database software, MySQL.