

**C-Bus<sup>2</sup>**  
Control and  
Management  
System

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C-Bus2 is a microprocessor controlled wiring system used to control lighting and other electrical services.

## C-Bus2 makes life easier

C-Bus2 makes it easy to control all kinds of electrical services within buildings. From simple to sophisticated controlling, the advantages of C-Bus2 are many. And the possibilities are almost endless.

For example, lights, security, air-conditioning and even watering the lawn can be programmed to suit you. Best of all, the modular design lets you start with a basic system and add new services to it whenever you want.

C-Bus2 is often programmed with a computer but you can program it manually too. The simple to follow instruction video and booklet make it too easy!

This brochure will touch on these and many other C-Bus2 features.

## How C-Bus2 Works

The C-Bus2 Network Bus is the system's communications network. Unshielded twisted pair (UTP) Category 5 cable allows communication between units and provides the small amount of power needed to operate the circuitry that many C-Bus2 units have.

C-Bus2 relay units and dimmer units are the links between the mains power supply and the various switches and sensors used to control a building's electrical services. The C-Bus2 network is electrically isolated from the mains power and operates at a safe extra low voltage level (36V DC).

## Easy to install

During design and installation of the C-Bus2 system, each output and input unit is simply allocated a network connection. Then, during commissioning, the system is programmed so particular C-Bus2 commands trigger certain responses in one or more units on the network.

Best of all, C-Bus2 commands can be easily reprogrammed, added or removed at any time.

## Add to C-Bus2 whenever you like

Twisted pair data cable allows communication between the units. Using this cable, input units (eg. switches and sensors) and output units (eg. relays and dimmers) can be connected to any point in the C-Bus2 network.

Connections can be looped from unit to unit or a new branch can be added at any point. This 'free topology' structure allows for a very flexible system and means new services can be added at any time with ease.

## Unlimited capabilities

The size of a C-Bus2 system is practically unlimited. Larger installations are typically divided into networks of 100 units allowing the system to be set up in manageable sections. And up to 1000 metres of cable can be installed per network.

So you see, the system can be as small or as large as you need. And C-Bus2 not only simplifies the design of your automation needs, it also limits potential faults and makes troubleshooting easier.

## Reliable, high-speed communication

Each unit on the C-Bus2 network has its own built-in microprocessor allowing it to operate independently with "distributed intelligence."

This gives you extremely reliable high-speed communication because control information is held within each unit rather than inside a central computer or controlling point. It also means a malfunction in one unit won't disrupt the entire system.

Plus, unlike other systems, C-Bus2 allows multiple commands to be sent and received simultaneously at a high speed. This 2-way communication also allows devices to share information amongst themselves.

## Now everyone can program C-Bus2

The great thing about C-Bus2 is you can program it manually without a computer. By simply pressing the correct sequence of buttons you can easily set commands to control a building's electrical services.

There is an easy to follow instruction booklet and video to help get you started too. If you prefer, you can still use a computer to program C-Bus2 as well.

## C-Bus2 Units

### Learn Enabled Relay and Dimmer Units

Learn Enabled Units let you set relationships between output units and input units without a computer.

#### 4 Channel Voltage Free Relay, 250Vac 10A per channel

L5504RVF Series



#### 12 Channel Voltage Free Relay, 250Vac 10A per channel

L5512RVF Series



#### 4 Channel Dimmer, 2A per channel

L5504D2A Series



#### 8 Channel Dimmer, 250Vac 1A per channel

L5508D1A Series



#### 8 Channel DSI Gateway

L5508DSI Series



## C-Bus2 Professional Series Dimmers

These architectural dimmers have been specially developed for high power lighting effects in auditoriums, conference centres, hotels and theatres.

### L5104D5 Series

Four Channel 5A Professional Dimmer



### L5102D10 Series

Two Channel 10A Professional Dimmer



### L5101D20 Series

One Channel 20A Professional Dimmer



## Single and 2 Channel Relay Devices

5101R and 5102RVF

Compact modules for integration within other equipment featuring 10A resistive and inductive switching plus 0-10V DC output.



## 20A 4 Channel Relay Unit

L5504RVF20 Series

Capable of switching 20A HID or fluorescent loads (2000A inrush and 1500A short circuit capabilities). No derating required for inductive lighting loads.



## 4 Channel 0-10V Analogue Output Device

5104AM Series

Controls third party devices that use industry standard 0-10V or 1-10V DC control voltage (eg. electronic controllable fluorescent ballasts).



## Time Clock Module

5031H2TC7 Series

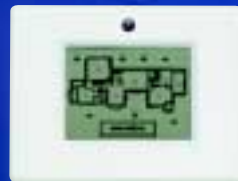
Controls two separate C-Bus2 Channels with battery back-up and an override function for special events and situations.



## Touch Screen

SC5000CT Series

The Touch Screen provides a touch sensitive LCD screen with "soft keys" which behave in a similar way to the keys on a regular C-Bus2 Key Input Unit. This one unit can replace hundreds of C-Bus Switches.



## Bus Coupler

5104BCL Series

This coupler enables you to connect any kind of switch to C-Bus2. It has been specially designed to fit in the wall box behind regular switches making it possible to use whatever Clipsal switch style you like.



## Infrared Output Unit

5034NIRT Series

A C-Bus2 device that controls infrared products such as A/V components installed in boardrooms, theatres, homes, etc.



## Scene Master for Total Control

5035NIRSL Series

With Scene Master a user can access up to five complex lighting scenes (switching/dimming patterns) plus a Master-Off scene at the press of a button.



## Light Level Sensor

5031PE Series

Measures from 20 to 3000 Lux with programmable hysteresis values.



## Temperature Sensor

5031TS Series

Measures from 0° to 50°C with adjustable hysteresis.



## C-Bus2 Power Supply, 350mA

5500PS



## C-Bus2 to Ethernet Network Interface

5500CN



## C-Bus2 PC Interface DIN Rail Mount

5500PC



## C-Bus2 Network Bridge

5500NB



## Occupancy Sensors

Indoor and outdoor passive infrared (IP66) models are available to suit your particular needs. Sensors include an integrated light level sensor, sunset switch and security mode.



5750WPL Series



5751L Series



5753L Series



## Programmable Wall Mounted Key Input Units

Key Input Units come in a wide range of styles and finishes including metallic, with plain or engraved face plates. 1, 2 or 4 gang switches are accommodated in all standard sized wall plates.



## C-Gate Server Software

### 5000CG Series

C-Gate is the gateway software program which allows third parties to integrate with the C-Bus2 system. C-Gate server software can be embedded into third party software to automatically model the C-Bus2 network.



## C-Lution Application Software

### 5000CL Series

C-Lution is a graphical user interface software application allowing the user to create sophisticated animation to display the operating status, network layout and building layout.



## Schedule Plus Application Software

### 5000SP Series

Schedule Plus Application Software provides a powerful and easy to use interface to C-Bus via a standard PC. Schedule Plus has been developed specifically for commercial and industrial applications. It provides scheduling, manual control and monitoring of a C-Bus system from a PC running Windows 95, 98, 2000, NT, ME or XP.



## HomeGate Application Software

### 5000HG Series

The HomeGate Application Software provides a powerful but simple to use interface to C-Bus via a standard PC. HomeGate provides scheduling, manual control and monitoring of a domestic C-Bus system from a PC running Windows 95, 98, 2000, NT, ME or XP. HomeGate comprises of a Project Editor, Real Time Monitoring and Control, a Real Time Scheduler, Security and Access Control and Internet Access. It also includes Help and Support Documentation.



***If you'd like more details contact a C-Bus Approved Installer or Clipsal Integrated Systems.***

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