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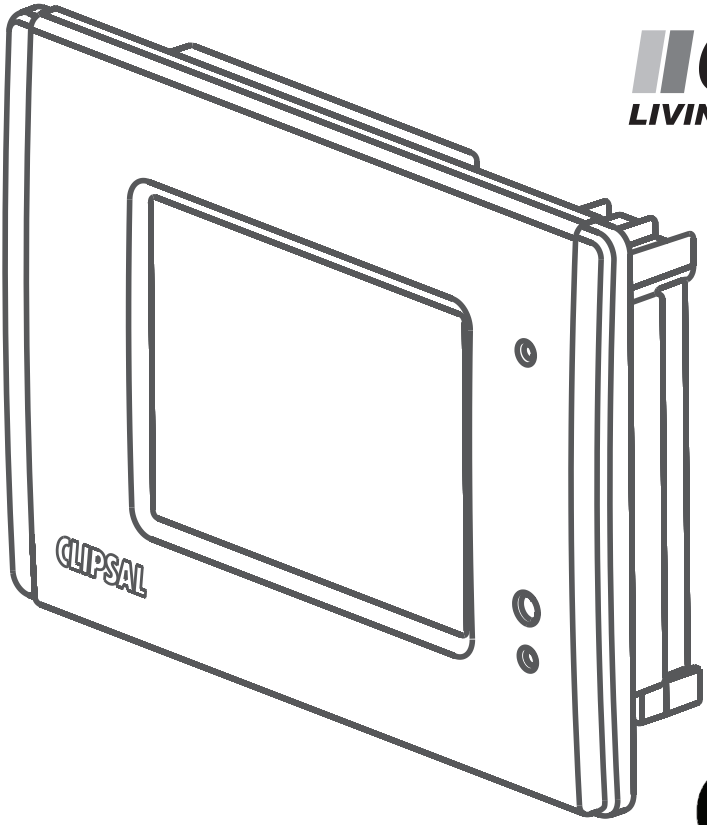

C-Bus

C-Bus Black & White MK II Touch Screen

5000CT2 Series

TWO YEAR WARRANTY 2

FC CE

User's Guide

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1.0 Product Range

Product	Facia Style	Catalogue Number
C-Bus Black & White Mk II Touch Screen	Polished brass	BB5000CTx2
	Brushed stainless steel	BS5000CTx2
	Plastic	SC5000CTx2
	Neo	5050CTx2
	Saturn glass	5080CTx2
Infrared Remote Control	–	5035TX

2.0 Description

The C-Bus Black & White Touch Screen Mk II is a flexible controller and scheduler for C-Bus systems. It has infrared remote control capability and a backlit black & white liquid crystal display (LCD). The unit mounts in a wall, and connects to the C-Bus automation system, providing control and scheduling of services throughout a home or commercial premises.

The touch screen displays a series of touch sensitive pages that are associated with various lights or other electrical appliances on the C-Bus network. You can use the unit to trigger 'scenes' where multiple appliances switch on together, setting a particular mood at the press of a button. You can also control appliances according to a schedule.

The appearance of every C-Bus Black & White Mk II setup is unique, so your display may look different from the examples in this guide. Your installer is responsible for the configuration and features of your unit. Refer to them for details of your customised system.

3.0 Definitions

Term	Definition
load	An electrical device (such as a light) connected to a C-Bus output unit (such as a dimmer).
scene	A series of actions across multiple outputs, triggered by a single button press or other event. For example, on arrival home you could use a scene to switch on lights in the hallway and kitchen, dim lights in the lounge, and switch on a heater.
schedule	A sequence of events to occur at particular times or dates in the future.
backlight	The light behind the LCD screen providing visibility in varying lighting conditions.

4.0 Capabilities

Depending on its configuration, you can use the C-Bus Black & White Mk II to:

- switch and dim lights and other electrical appliances
- switch off lights and appliances using a timer
- automatically control lights and appliances via a schedule
- simultaneously control multiple appliances from a single button (using scenes)
- activate functions by remote control
- adjust the time and date.

5.0 Using the Touch Screen

The C-Bus Black & White Mk II is configured with software customised for a particular environment (such as your home or office). The software typically presents a main page with buttons that link to other pages.

Most pages contain buttons that control appliances such as lights, fans and curtains. Some pages contain slider controls or radio buttons that adjust lighting levels or select from a range of options.

Figure 1 shows an example C-Bus page used to control the lights and fans in a kitchen. The page includes:

- scene buttons which set appliances to specific levels. For example, the Cooking button sets the kitchen and bench lights to their highest levels and switches the exhaust and range hood fans on
- switch buttons which allow you to toggle appliances on and off
- sliders which allow you to adjust (dim) specific lighting levels, by touching the slider with your finger and dragging up or down
- buttons which link to other pages.

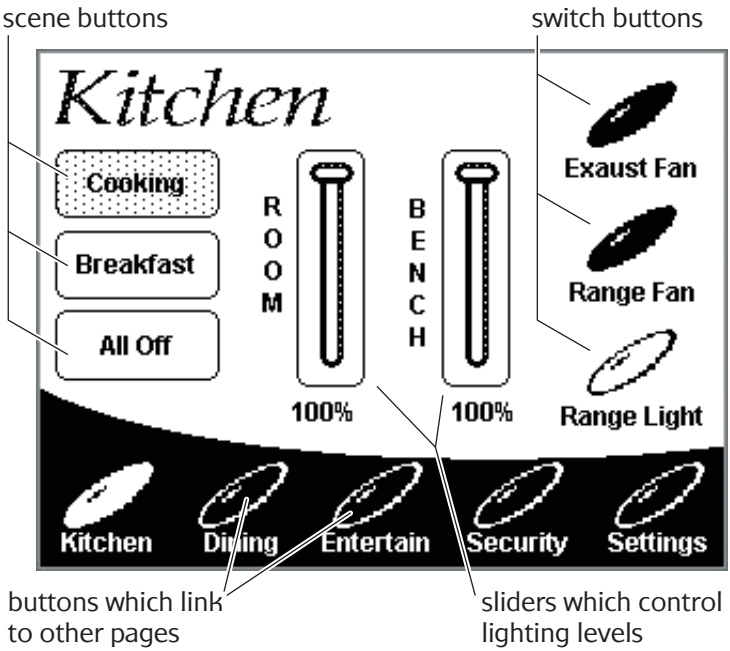

Figure 1 - A page used to control kitchen lights and fans

5.1 Configuration Page

The C-Bus Black & White Mk II software includes a configuration page, such as the one in Figure 2. This allows you to customise your unit. The configuration page may have a different name, such as Settings, Tools, Utilities, Setup or System.

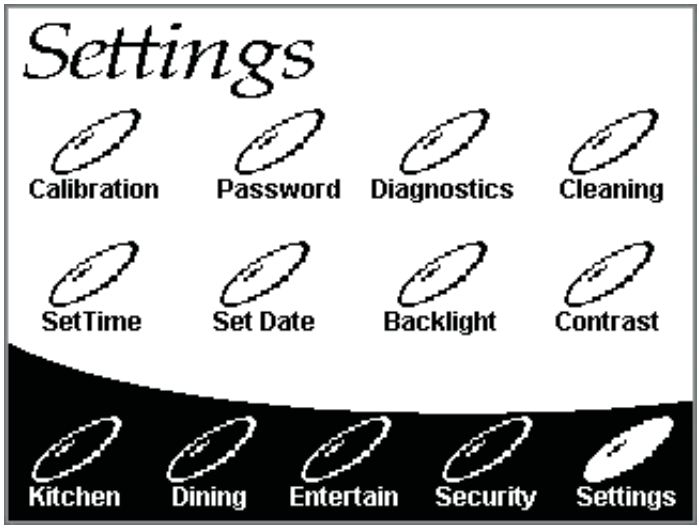

Figure 2 - An example configuration page

Depending on your installation, the configuration page may allow you to:

- set or change the time and date
- temporarily ignore screen presses (Cleaning Mode)
- adjust the display contrast
- adjust the backlight
- set or change a password
- calibrate the screen (touch control synchronisation).

6.0 Remote Control

The C-Bus Black & White Mk II can be used with an IR remote control (such as the 5035TX), allowing you to control appliances from a distance. You can use the remote to navigate through touch screen pages, trigger scenes, switch appliances and adjust lighting levels, depending on how the touch screen was configured by the installer.

If you have multiple C-Bus units (Colour or Black & White), you can use the same remote control with each of them. The 5035TX remote has a range of approximately 10 metres from the IR receiver at 90° to the C-Bus Black & White Mk II, or 6 metres at 35° degrees. This is illustrated in Figure 3.

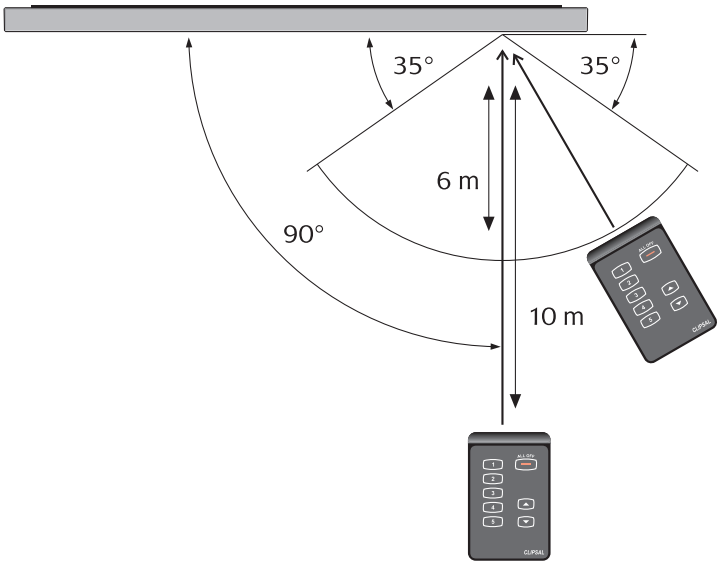

Figure 3 - Remote control reception

A universal remote control with learning capability (such as the Clipsal 5030URC) can be used to control infrared enabled C-Bus units. Please follow the directions of your learning remote.

7.0 Scenes

One of the benefits of an automation system is the combining together of events to create a special effect. An example of this is the commencement of a movie at the cinema, where the house lights dim, the curtains open and the movie begins to play. You can reproduce this effect by creating a scene triggered by your C-Bus Black & White Mk II unit.

Almost anything on your C-Bus system can be included in a scene. Ask your installer for information on how scenes can be used to set special moods.

8.0 Schedules

A schedule is used to make something happen at a particular time. You can ask your installer to include schedules that perform household chores on a regular basis. For example, turning the lights on and off when you are away from home to make the house look lived in. That way you can create the impression that someone is home and moving from room to room at various times. Another example is something often forgotten such as watering the garden on a regular basis.

C-Bus schedules are created by your installer, using special software.

9.0 Care Instructions

The C-Bus Black & White Mk II contains electrical and electronic parts to support its powerful functions. Note the following precautions:

- Clean regularly using a soft lint free cloth (use the Cleaning Mode button to avoid undesired triggering of events).
- Do not use chemicals or spray cleaners when cleaning.
- Do not operate with wet hands.
- Do not use hard, sharp objects or excessive force to select the controls.
- C-Bus units are designed for indoor use only.
- Do not expose to direct sunlight for extended periods.

no wet hands

no cleaner spray

no direct sunshine

no dust

10.0 Product Specifications

Parameter	Description
AC input impedance	13 kΩ @1 kHz
Display type	4.7 inch (119 mm) active black & white LCD
Display resolution	320 × 240 pixels
Display luminance	120 cd/m^2
Viewing angle	Left, right: 45°; up: 50°; down: 30°
Backlight type	White LED
Touch surface durability	1 million presses (typical)
Maximum number of controlled loads	255 group addresses on each of 10 applications
Third party interface	RS-232 port (logic engine models only)
Programming port	USB type B (front of unit, behind facia)
C-Bus supply voltage	15 to 36 V DC @ 65 mA required for normal operation. Does not provide current to the C-Bus network.
Network clock	Software selectable
Network burden	Software selectable
Processor	ARM7TDMI, 40 MHz
Warm up time	< 10 seconds
Operating temperature	0 to 45 °C (32 to 113 °F)
Operating humidity	10 to 95% RH

11.0 Standards Complied

DECLARATIONS OF CONFORMITY

Australian/New Zealand EMC & Electrical Safety Frameworks and Standards
5000CT2 Series C-Bus Black & White Mk II products comply with the following:

Standard	Title
AS/NZS CISPR22	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

European Standards
5000CT2 Series C-Bus Black & White Mk II products comply with the following:

Standard	Title
EN 55022	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
EN 55024	Information technology equipment – Immunity characteristics – Limits and methods of measurement

USA Standards
5000CT2 Series C-Bus Black & White Mk II products comply with the following:

Standard
FCC Part 15 Radio Frequency Devices, Subpart B for unintentional radiators.

Other International Standards
5000CT2 Series C-Bus Black & White Mk II products comply with the following:

Standard	Title
CISPR 22	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
CISPR 24	Information technology equipment – Immunity characteristics – Limits and methods of measurement

12.0 Warranty Statement

The 5000CT2 Series C-Bus Black & White Mk II Touch Screens carry a two-year warranty against manufacturing defects.

Warranty Statement

1) The benefits conferred herein are in addition to, and in no way shall be deemed to derogate; either expressly or by implication, any or all other rights and remedies in respect to Clipsal Integrated Systems Product, which the consumer has under the Commonwealth Trade Practices Act or any other similar State or Territory Laws.
2) The warrantor is Clipsal Pty Ltd, with registered offices in all Australian States.
3) This Clipsal Integrated Systems Product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of installation.
4) Clipsal Australia Pty Ltd reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.
5) This warranty is expressly subject to the Clipsal Integrated Systems Product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.
6) All costs of a claim shall be met by Clipsal Australia Pty Ltd, however should the product that is the subject of the claim be found to be in good working order, all such costs shall be met by the claimant.
7) When making a claim, the consumer shall forward the Clipsal Integrated Systems Product to the nearest office of Clipsal Australia Pty Ltd with adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.

For all warranty enquiries, contact your local Clipsal sales representative. The address and contact number of your nearest Clipsal Australia office can be found at http://www.clipsal.com/locations or by telephoning Technical Support 1300 722 247 (CIS Technical Support Hotline).

Technical Support and Troubleshooting

For further assistance in using this product, consult your nearest Clipsal Integrated Systems (CIS) Sales Representative or Technical Support Officer.

Technical Support Contact Numbers	
Australia	1300 722 247 (CIS Technical Support Hotline)
New Zealand	0800 888 219 (CIS Technical Support Hotline)
Northern Asia	+852 2484 4157 (Clipsal Hong Kong)
South Africa	011 314 5200 (C-Bus Technical Support)
Southern Asia	+603 7665 3555 Ext. 236 or 242 (CIS Malaysia)
United Kingdom	0870 608 8 608 (Schneider Electric Support)

Technical Support email: tech.training@clipsal.com.au

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