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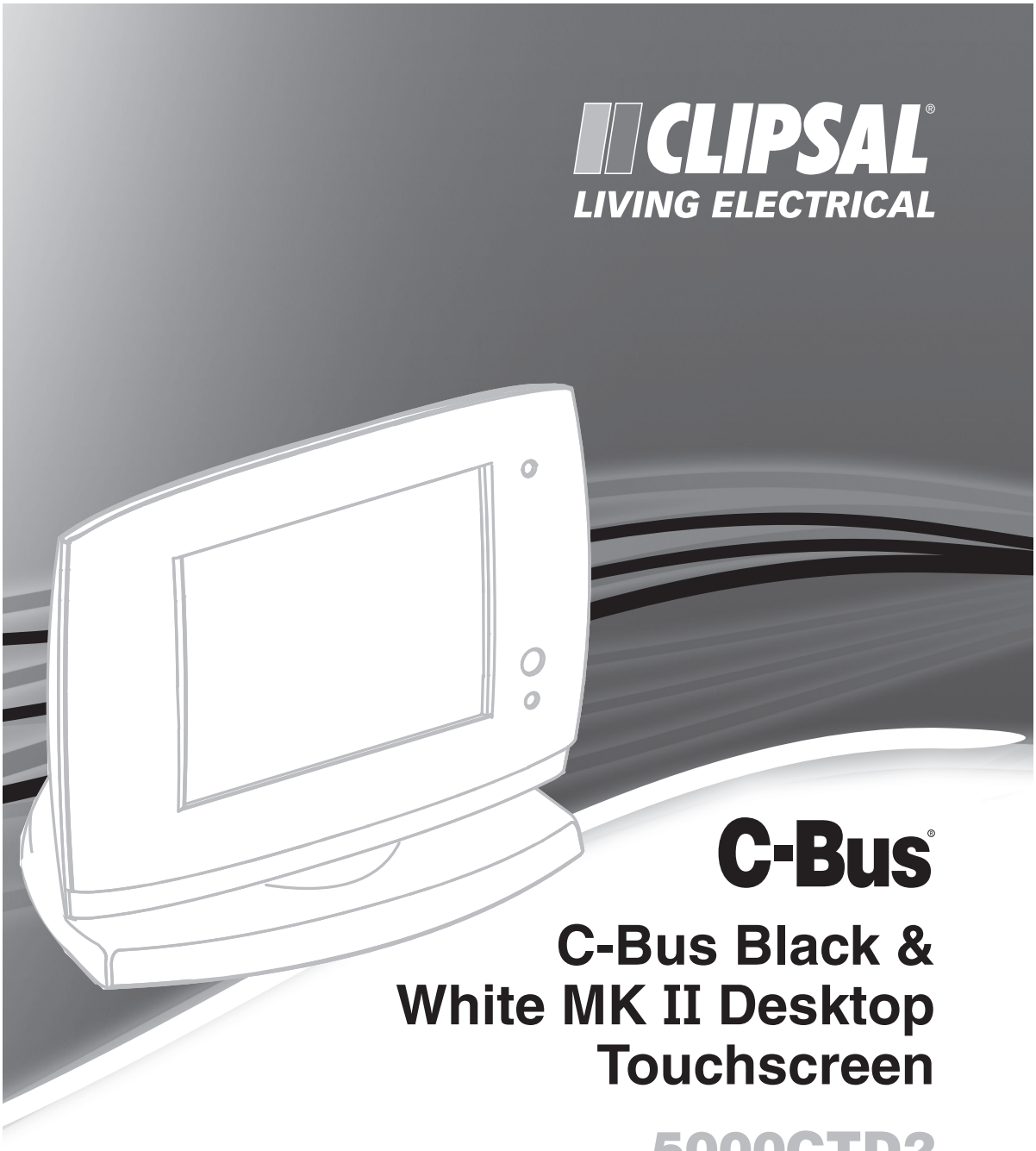

C-Bus®

C-Bus Black & White MK II Desktop Touchscreen

5000CTD2
Series

TWO YEAR WARRANTY 2

User's Guide

REGISTERED DESIGN • REGISTERED PATENT

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1.0 Product Range

The C-Bus Black & White MK II Desktop Touchscreen is available in the following models:

Product	Fascia Color	Logic Engine	Catalogue Number
C-Bus Black & White MK II Desktop Touchscreen	white	no	5000CTD2
		yes	5000CTDL2
	black	no	5000CTD2
		yes	5000CTDL2
	grey	no	5000CTD2
		yes	5000CTDL2
Accessory Products			
Infrared Remote Control	–	–	5035TX2
RS232 Cable (2 m)	–	–	5000CT2RS232

Table 1. Product range description

2.0 Description

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

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

3.0 Capabilities

Depending on its configuration, you can use the touchscreen to

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

4.0 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.

5.0 Using the Touchscreen

The touchscreen 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 devices 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.

Note: The appearance of every touchscreen setup is unique; your display may look different to 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.

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

- scene buttons which set devices 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 devices 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 that link to other pages.

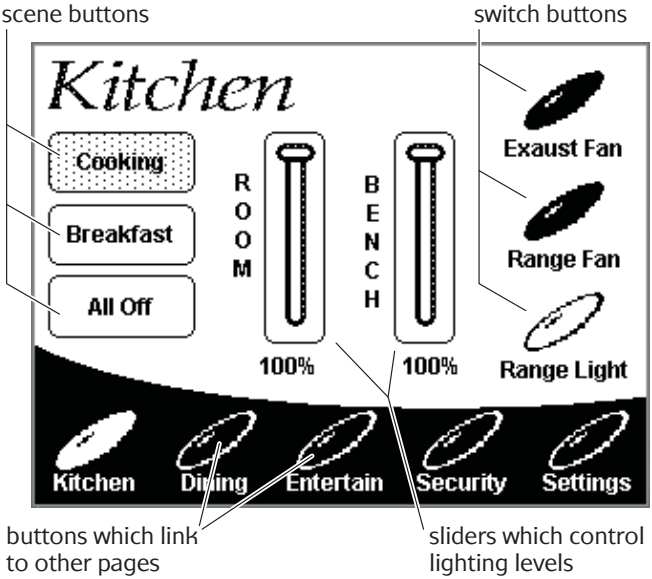

Figure 1. A page that controls kitchen lights and fans

5.1 Configuration Page

The touchscreen software includes a configuration page, similar to Figure 2. This page allows you to customise your unit. The configuration page may have a different name, such as Settings, Tools, Utilities, Setup or System.

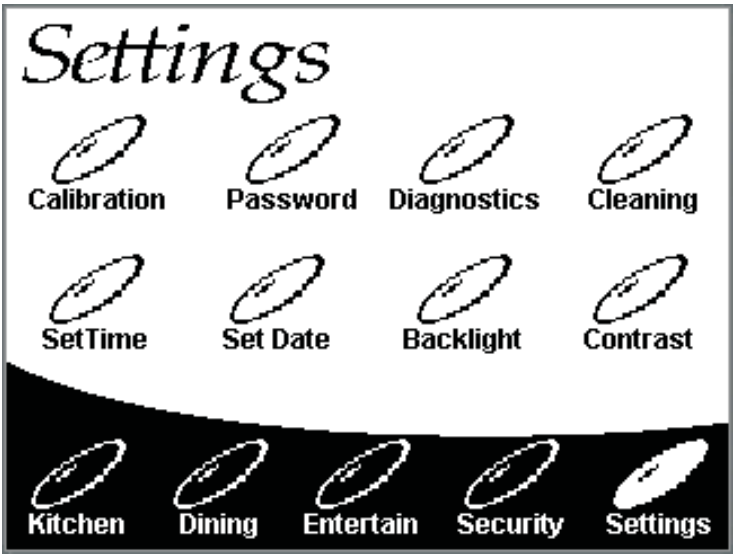

Figure 2. An example configuration page

Depending on your installation, the configuration page allows 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 touchscreen can be used with an IR remote control (such as the 5035TX2), allowing you to control devices from a distance. You can use the remote to navigate through touch screen pages, trigger scenes, switch devices and adjust lighting levels, depending on how the touch screen was configured by the installer.

If you have multiple touchscreens, you can use the same remote control with each of them. The 5035TX2 remote has a range of approximately 10 metres from the IR receiver at 90° to the touchscreen, or 6 metres at 35° degrees. This is illustrated in Figure 3.

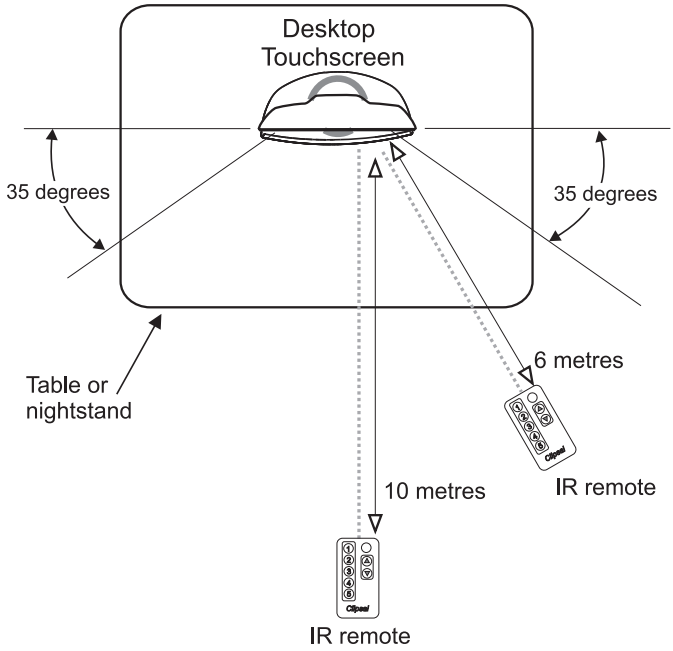

Figure 3. Remote control reception

A universal remote control with learning capability (such as the Clipsal 5030URC) can be used to control infrared enabled touchscreens. 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 touchscreen.

Almost any device 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, which perform household chores on a regular basis; for example, switching 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.

Note: Schedules are created by your installer using special software.

9.0 Care Instructions

The touchscreen 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.
- Touchscreen units are designed for indoor use only.
- Do not expose the touchscreen 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
Dimensions (W x H x D)	194mm x 160mm x 94mm
Viewing angle	Left, right: 45°; 10° to 45° from vertical
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; 3.5mm plug (logic engine models only)
Programming port	USB type B (side of unit)
C-Bus supply voltage	15 to 36V d.c. @ 65 mA required for normal operation. Does not provide current to the C-Bus network.
C-Bus connection type	RJ45
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 90% RH, non condensing

11.0 Standards Complied

Declarations of Conformity

The 5000CTD2 Series C-Bus Black & White MK II DesktopTouchscreen complies with the following:

Australian/New Zealand EMC & Electrical Safety Frameworks and Standards

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

European Standards

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

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

Other International Standards

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

12.0 Two-Year Warranty

The C-Bus Black & White MK II Desktop Touchscreen carries 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 Australia Pty Ltd. Telephone (08) 8345 9500. 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 (refer to the back page).

Notes

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: techsupport.cis@clipsal.com.au

Sales Support Email: sales.cis@clipsal.com.au

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