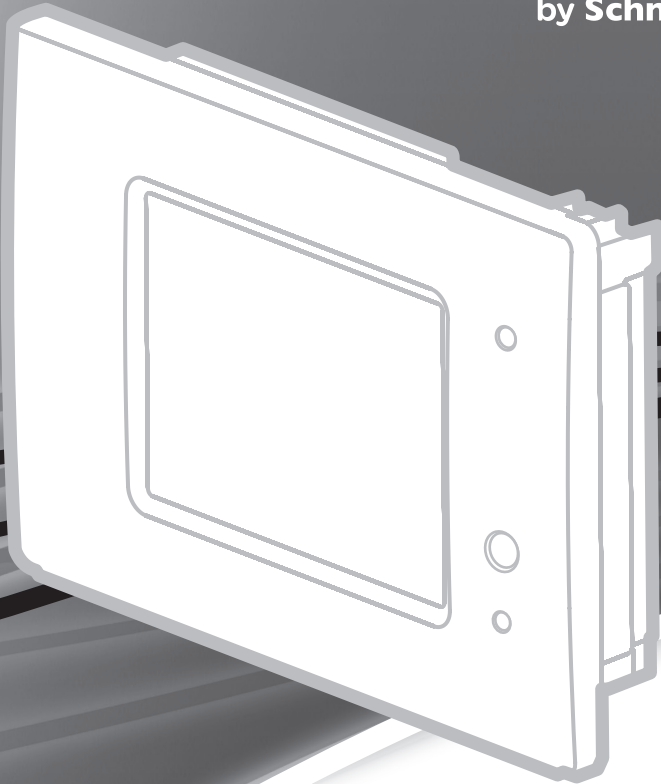


CLIPSAL®

by **Schneider Electric**



C-Bus®

**Black and White
Mk II Touch Screen**

**5000CT2 Series
5000CTL2 Series**



User Guide

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November, 2011

1.0 Introduction

An approved installer must program the C-Bus Black and White Mk II Touch Screen before it is fully functional. The warranty may be affected if the unit is not properly installed.

Several fascia colour and style options are available. Contact your local sales representative for more information.

Catalogue Number	Description
5050CT2	Black and White Mk II Touch Screen, 4.7 inch LCD screen, non-logic engine model, Neo plastic fascia
5050CTL2	Black and White Mk II Touch Screen, 4.7 inch LCD screen, with logic engine, Neo plastic fascia
5080CT2	Black and White Mk II Touch Screen, 4.7 inch LCD screen, non-logic engine model, Saturn bevelled glass fascia
5080CTL2	Black and White Mk II Touch Screen, 4.7 inch LCD screen, with logic engine, Saturn bevelled glass fascia
	Parts kit includes stylus, microfibre cleaning cloth, mounting screws, USB programming cable, ferrite filter (supplied with the touch screen)
Accessories	
5035TX2	Infrared remote control (supplied with the touch screen)
5000CT2RS232	RS-232 cable (supplied with logic engine models)
5000CT2WB	Wall box (not supplied)

Table 1. Touch screen product range and accessories

1.1 Features and Capabilities

The touch screen 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 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.

Note: The appearance of every touch screen 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.

Depending on its configuration, you can use the touch screen to:

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

1.2 Definitions

The table below contains key terms that apply to the touch screen.

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. For example, on arrival home you could use a scene to switch on lights in the hallway, kitchen and lounge, and switch on a heater.
schedule	A sequence of events set to occur at particular times in the future.
backlight	The light behind the LCD screen providing visibility in varying lighting conditions.

Table 2. Definitions

2.0 Using the Touch Screen

The touch screen is configured with software customised for a particular location (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 of a page that is used to control lights and fans in a kitchen. The page includes:

- **Scene** buttons that 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 that allow you to toggle appliances on and off.
- **Sliders** that 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.

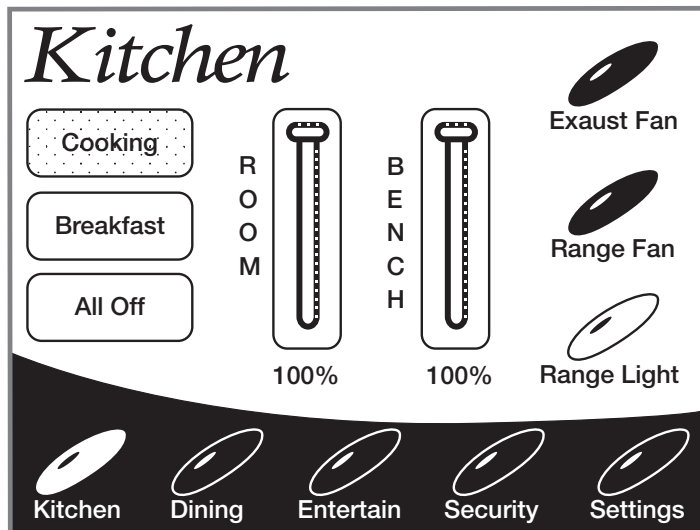


Figure 1. A page used to control kitchen lights and fans

2.1 Configuration Page

The touchscreen's software includes a configuration page, such as the one shown in Figure 2. This page allows you to customise your unit. The configuration page may have a different name, such as **Tools**, **Utilities**, **Setup**, **Settings** or **System**.

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 backlight
- set or change a password
- calibrate the screen.

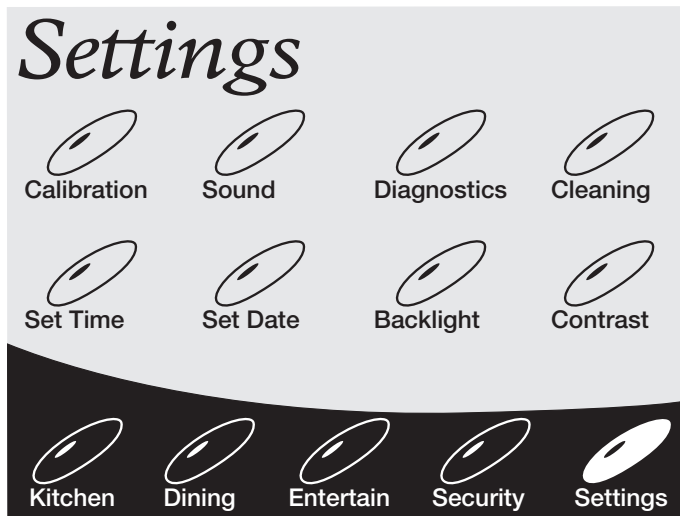


Figure 2. An example of a configuration (settings) page

3.0 Remote Control

The touch screen is supplied with an infrared remote control that allows you to control appliances from a distance. You can use the remote to trigger scenes, switch appliances and adjust lighting levels, depending on how the touch screen was configured by the installer.

If you have multiple touchscreen units (black and white or colour), you can use the same remote control for all of them. The remote has a range of approximately eight metres from the infrared receiver at 90° to the touch screen, or four metres at 60°. This is illustrated in Figure 3. A universal remote control with learning capability (such as the Clipsal 5030URC) can be used to control C-Bus touch screens. Please follow the instructions of the learning remote control.

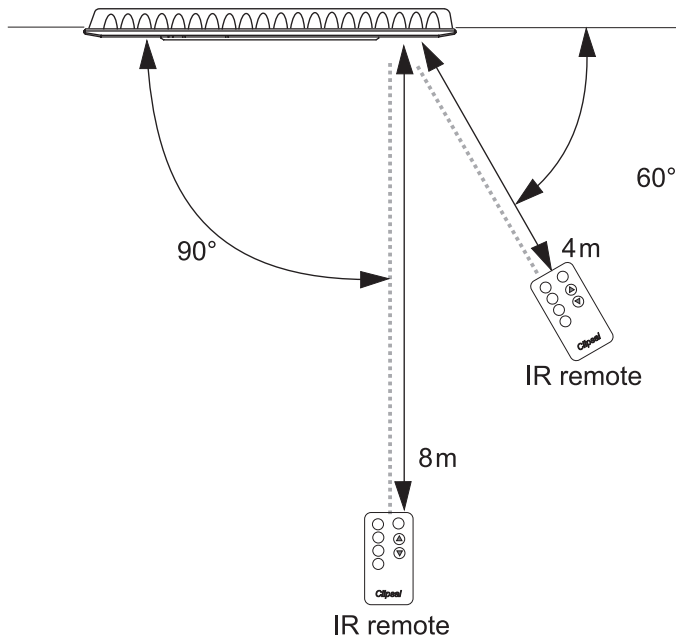


Figure 3. Remote control range

The infrared remote control is supplied with a CR2025 (or equivalent) coin type lithium battery. The battery is shown in Figure 4.

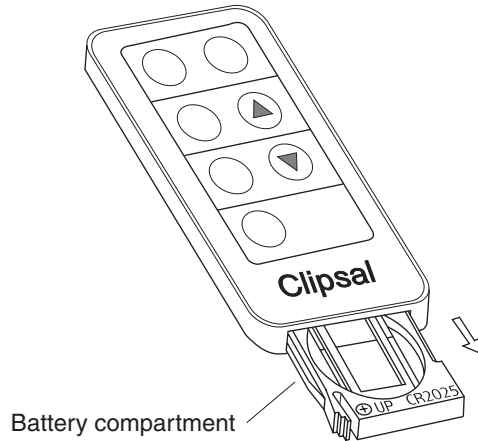


Figure 4. Battery compartment in the 5035TX2 remote control

4.0 Scenes

One of the benefits of an automation system is the combining of events to create a special effect or mood. An example of this is when a movie starts at a cinema. 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 touch screen 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.

5.0 Schedules

A schedule is used to make something happen at a particular time. Since this feature is included in the touch screen, you can ask your installer to include schedules that perform household chores on a regular basis. An example would be to turn the lights on and off when you are away from home to make the house look lived in. 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: Your installer creates schedules using special software tools.

6.0 Care Instructions

The touch screen unit contains electrical and electronic parts. Follow these guidelines to maintain the unit:

- Clean the touch screen regularly using the soft cleaning cloth provided. Use the Cleaning Mode button to avoid unwanted triggering of events.
- Do not use chemicals or spray cleaners on the touch screen or the fascia.
- Do not operate the unit with wet hands.
- Do not use hard, sharp objects to select the controls. Use your fingertip or the provided stylus.
- Allow adequate ventilation. Do not block the ventilation holes.

Note: The warm airflow coming from the vents on the top of the unit may cause discolouration of some surfaces over time.



no wet
hands



no cleaner
spray



no
coverage



no direct
sunshine



no
dust

7.0 Specifications

Parameter	Description
Display type	4.7 inch (119mm) active black and 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)
C-Bus supply requirement	15 to 36V d.c. @ 65mA required for normal operation. Does not provide current for the C-Bus network.
A.C. impedance	13kΩ @ 1kHz
C-Bus connections	4-wire terminal block
Maximum number of controlled loads	255 group addresses on each of 10 applications
C-Bus network clock	Software selectable
C-Bus network burden	Software selectable
Programming port	USB type B (front of unit, behind fascia)
Third party interface	RS-232 port (logic engine models only) using 3mm stereo socket
Warm up time	<10 seconds
Operating temperature range	0 to 45°C (32 to 113°F)
Operating humidity range	10 to 95% RH (non-condensing)
Weight	370g (without fascia)

8.0 Two-year Warranty

The Black and White Mk II Series Touch Screens carry a two-year warranty against manufacturing defects.

Warranty Statement

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 the Clipsal by Schneider Electric product, that the consumer has in the location where the product is sold.

The warrantor is Schneider Electric (Australia) Pty Ltd, a member of Schneider Electric Industries SAS, with offices worldwide.

This Clipsal by Schneider Electric product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of purchase.

Schneider Electric (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.

This warranty is expressly subject to the Clipsal by Schneider Electric product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions. Any alterations or modifications made to the product without permission of Schneider Electric (Australia) Pty Ltd might void the warranty.

Schneider Electric (Australia) Pty Ltd shall meet all costs of a claim. 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.

When making a claim, the consumer shall forward the Clipsal by Schneider Electric product to the nearest Clipsal by Schneider Electric office. Provide 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 the load and circumstances of the malfunction.

For all warranty enquiries, contact your local Clipsal by Schneider Electric Sales Office. The address and contact number can be found at www.clipsal.com/locations or by telephoning 1 300 722 247, the CIS Technical Support Hotline (Australia only).



9.0 Technical Support and Troubleshooting

For further assistance in using this product, consult your nearest Clipsal by Schneider Electric Sales or Technical Support Office.

Australia Technical Support Hotline: 1300 722 247

New Zealand Technical Support Hotline: 0800 888 219

United States Customer Information Centre: 1 888 778 2733
lightingcontrol.support@us.schneider-electric.com

CIS Technical Support email: cis.support@clipsal.com.au



Schneider Electric (Australia) Pty Ltd

Contact us: clipsal.com/feedback

National Customer Care Enquiries:

Tel 1300 2025 25

Fax 1300 2025 56

clipsal.com

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