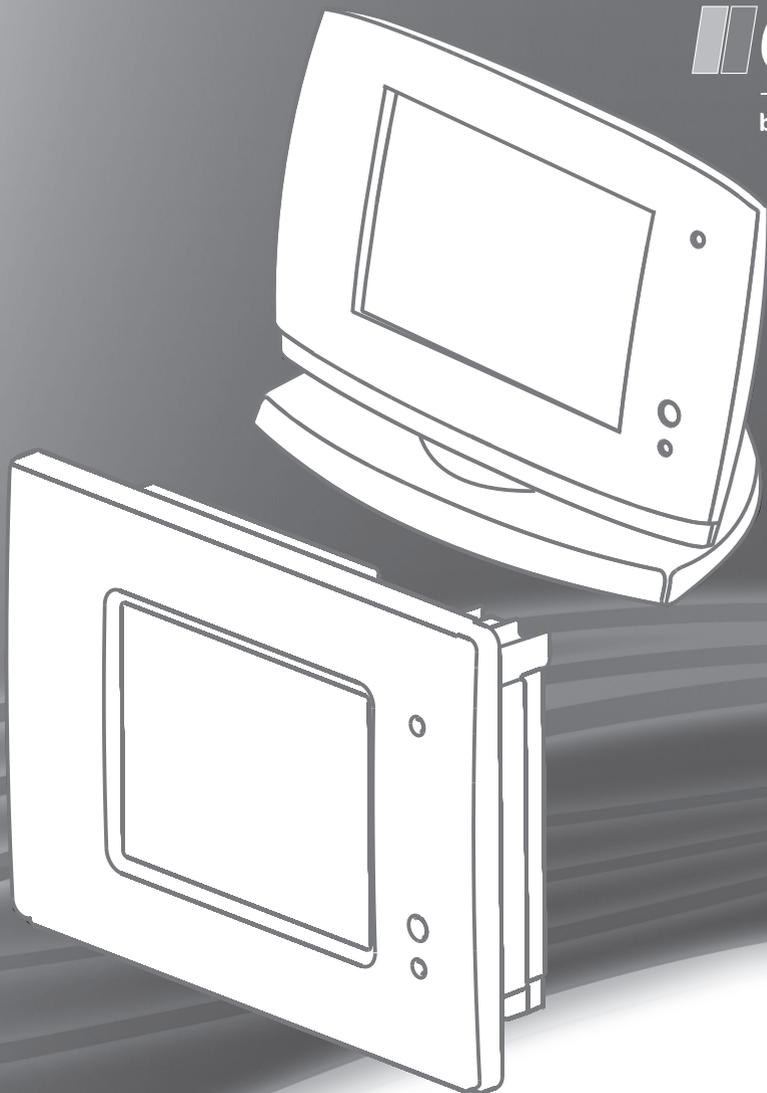


CLIPSAL[®]

by Schneider Electric



C-Bus[®]
C-Touch Spectrum Colour Touchscreen
C-5000CT2 Series

User's Guide



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December 2009

1 Description

The C-Bus C-Touch Spectrum Colour Touchscreen is a flexible controller and scheduler for C-Bus systems. It has infrared remote control capability and a backlit LCD display. The unit is available in wall mounted or desktop versions and connects to the C-Bus network, 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 units 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 equipment, such as heating and air conditioning units, according to a schedule.

The appearance of every C-Touch Spectrum touchscreen's 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.

1.1 Features

Depending on its configuration, you can use the C-Bus C-Touch Spectrum Touchscreen to:

- switch and dim lights and other electrical appliances
- switch off lights and other devices using a timer
- automatically control lights and equipment via a schedule
- simultaneously control multiple devices from a single button (using scenes)
- activate functions by remote control
- adjust the time and date. The touchscreen has a real-time clock.
- set access levels and passwords, you can set up the touchscreen to restrict access to touchscreen functions.

For your convenience, the internal CPU automatically controls the contrast and brightness of the LCD screen.

The CPU also controls the brightness of the white LED backlight. A proximity sensor turns on the backlight as you approach. You can disable this feature, if desired.

The locations of the controls and indicators are shown in the following figure.

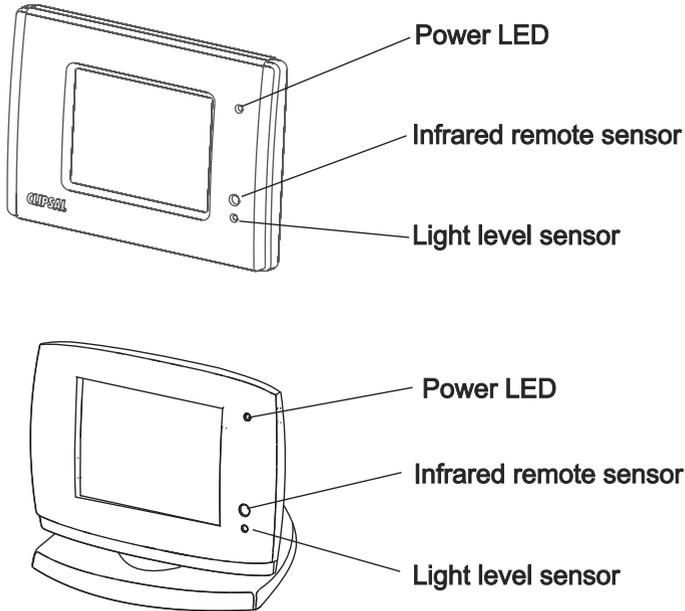


Figure 1. Controls and indicators

The screen has a typical viewing angle of 50° to the left and right, 70° up and 40° down. The desktop touchscreen has a tilting front. Refer to Figures 2 and 3.

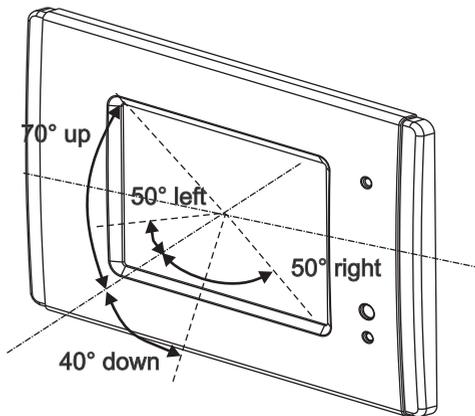


Figure 2. Wall Mounted touchscreen unit's viewing angles

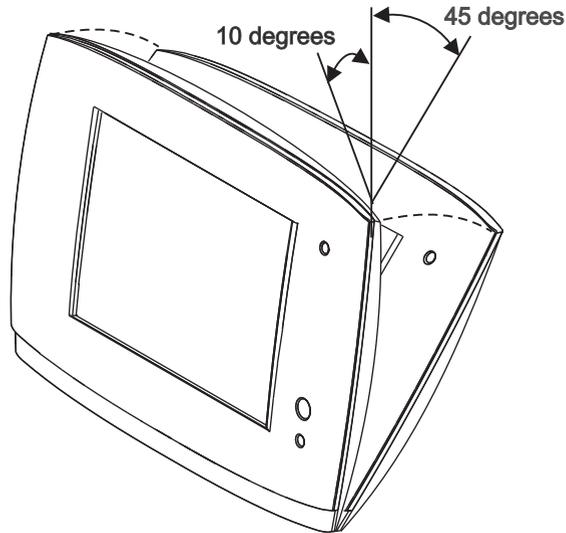


Figure 3. Desktop unit's angle of tilt

1.2 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.

2 Using the Touchscreen

The C-Bus C-Touch Spectrum Colour Touchscreen provides sophisticated control of an entire C-Bus system from one location. Using the appropriate software, you can:

- Configure the screens for convenience of use.
- Control devices and scenes.
- By using C-Bus and the logic engine interface, you can use schedules and timer control for lighting, HVAC, shutters and blinds telephony and third-party devices
- Configure an audible alarm.
- change access to the touchscreen's functions.

2.1 Product Care

Be careful not to scratch or otherwise damage the plastic parts. Do not wipe the LCD screen with anything other than a clean soft cloth. Keep the following points in mind:

- The touchscreen is designed for indoor use only.
- Do not place the touchscreen where it will be exposed to:
 - Dripping or splashing liquids
 - Direct sunlight or a source of heat
 - High humidity or condensation
- Do not restrict access to the unit.
- Provide a clear area in front of the touchscreen for reception of infrared signals from a remote control.
- Do not place the desktop touchscreen opposite windows or other sources of bright light, as the reflections make viewing difficult.



no wet
hands



no cleaner
spray



no direct
sunshine



no
dust

2.2 Pages

The C-Bus C-Touch Spectrum Colour 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 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 4 shows an example C-Bus page used to control the lights and fans in a kitchen. The page includes:

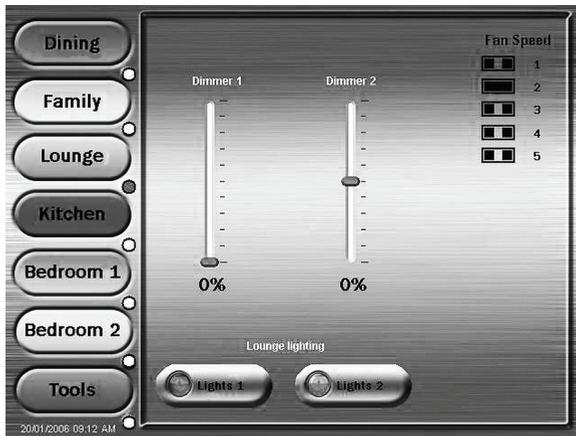


Figure 4. A page used to control kitchen lights and fans

Switch buttons allow you to toggle appliances on and off.

Sliders allow you to adjust (dim) specific lighting levels, by touching the slider with your finger and dragging up or down

Scene buttons set devices to specific levels. For example, you could set up a Cooking button to set the kitchen and bench lights to their highest levels and switch the exhaust and range hood fans on.

Configuration Page

The touchscreen software includes a configuration page that allows you to customise your unit. The configuration page may have a different name, such as Settings, Tools, Utilities, Setup 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 display contrast
- adjust the backlight
- set or change a password
- calibrate the screen (touch control synchronisation).

2.3 Remote Control

The C-Bus C-Touch Spectrum Colour Touchscreen can be used with an IR remote control (such as the 5035TX2), 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-Touch units (colour or black & white), 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 5.

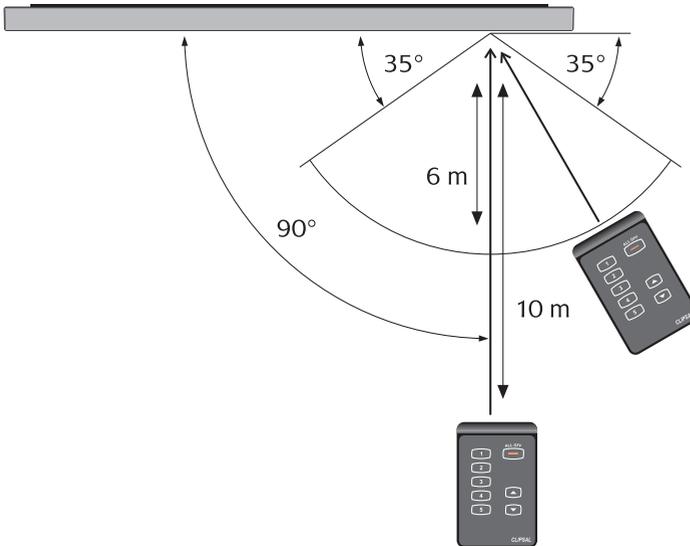


Figure 5. Remote control reception pattern

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.

2.4 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 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.

2.5 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.

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

3 Specifications

Parameter	Description
Display type	4.7 inch (119 mm) CSTN LCD, 320 x 240 pixels, 65536 colours
Display luminance	120 cd/m ²
Viewing angle	Left, right: 50°; up: 70°; down: 40° The desktop unit has a 45 degree backward angle of tilt from vertical
Backlight type	White LED with proximity sensor (the proximity feature can be turned off)
Touch surface durability	1 million presses (typical)
C-Bus supply requirement	15 to 36 V DC @ 75 mA required for normal operation. Does not provide current to the C-Bus network.
C-Bus connection type	4-wire terminal block, Wall Mounted RJ45, Desktop
AC Impedance	13 k Ω @1 kHz
Maximum number of controlled loads	255 group addresses on each of 10 applications
Network clock	Software selectable
Network burden	Software selectable
Programming port	USB type B (front of unit, behind fascia on wall mount; on upper side of fascia on desktop)
Third party interface	RS-232 port (logic engine models only)
RS-232 connection type	3.5 mm stereo socket
Warm up time	< 10 seconds
Operating temperature	0 to 40 °C (32 to 104 °F)
Operating humidity	10 to 90% RH

4 Two-Year Warranty

The C-Bus C-Touch Spectrum Colour Touchscreen carries 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 the Schneider Electric product, that the consumer has under the Commonwealth Trade Practices Act or any other similar State or Territory Laws.

The warrantor is Schneider Electric, with registered offices worldwide.

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

Schneider Electric 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 Schneider Electric product's having been installed, wired, tested, operated and used in accordance with the manufacturer's instructions.

Schneider Electric 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, the claimant shall meet all such costs.

When making a claim, the consumer shall forward the Schneider Electric product to the nearest office of Schneider Electric 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 or Schneider Electric sales representative. The address and contact number of your nearest office can be found at <http://www.clipsal.com/locations> or by telephoning Technical Support 1300 722 247 (CIS Technical Support Hotline).

Technical Support

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: cis.support@clipsal.com.au

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