

Comfort, the Intelligent Home System

KT03
Installation
Manual

SECTION 1 INTRODUCTION



Introduction

The KT03 has a monochrome 4 inch (10 cm) 320 x 240 resolution LCD with touchscreen allowing control and visualisation of the Comfort system. The KT03 can be configured according to the requirements of the user.

Features

- Touch-sensitive monochrome LCD display with backlight.
- Selectable Orientation - Landscape, Portrait or Landscape Inverted to suit wall constraints.
- Black Translucent, White and Silver faceplates are available.
- Speaker for voice announcement, intercom and message playback.
- Microphone for message recording and intercom.
- Infrared (IR) receiver to receive IR codes from the RC01 handheld remote control or a universal learning remote control, to control home appliances or act as a handheld keypad. Note: Translucent Black faceplate is required to the IR receiver function.
- Nonvolatile Flash memory allows hundreds of programmable screens.
- Programmable buttons on every page can trigger Responses, simulate keypad buttons.
- Active and Inactive images show status of security zones, Alarms, trouble conditions, and automation devices.
- Status LEDs show the status of alarm and trouble conditions.
- 64 Schedules to control automation and security independent of Comfort Time programs
- USB port for programming via Configurator software.

Specifications

- Overall Dimensions: 170 x 110 x 37.5 mm
- LCD Viewing Area: 81.4 x 61 mm
- Faceplate dimensions: 176 x 116 mm
- Back box dimension: 167 x 111 x 47 mm
- Weight: 330g (without back box).
- Power supply: 12V 150mA max (when idle) supplied from Comfort

Part Numbers

- KT03-BL: KT03 with Black Translucent faceplate. (allows IR receiver)
- KT03-AL: KT03 with Silver faceplate (not for IR receiver)
- KT03-WI: KT03 with White faceplate. (not for IR receiver)
- FR-KT-BL: Spare Black Translucent faceplate with Speaker (no Mic)
- FR-KT-AL: Spare Silver faceplate with Speaker (no Mic)
- FR-KT-WI: Spare White faceplate with Speaker (no Mic)

Contents

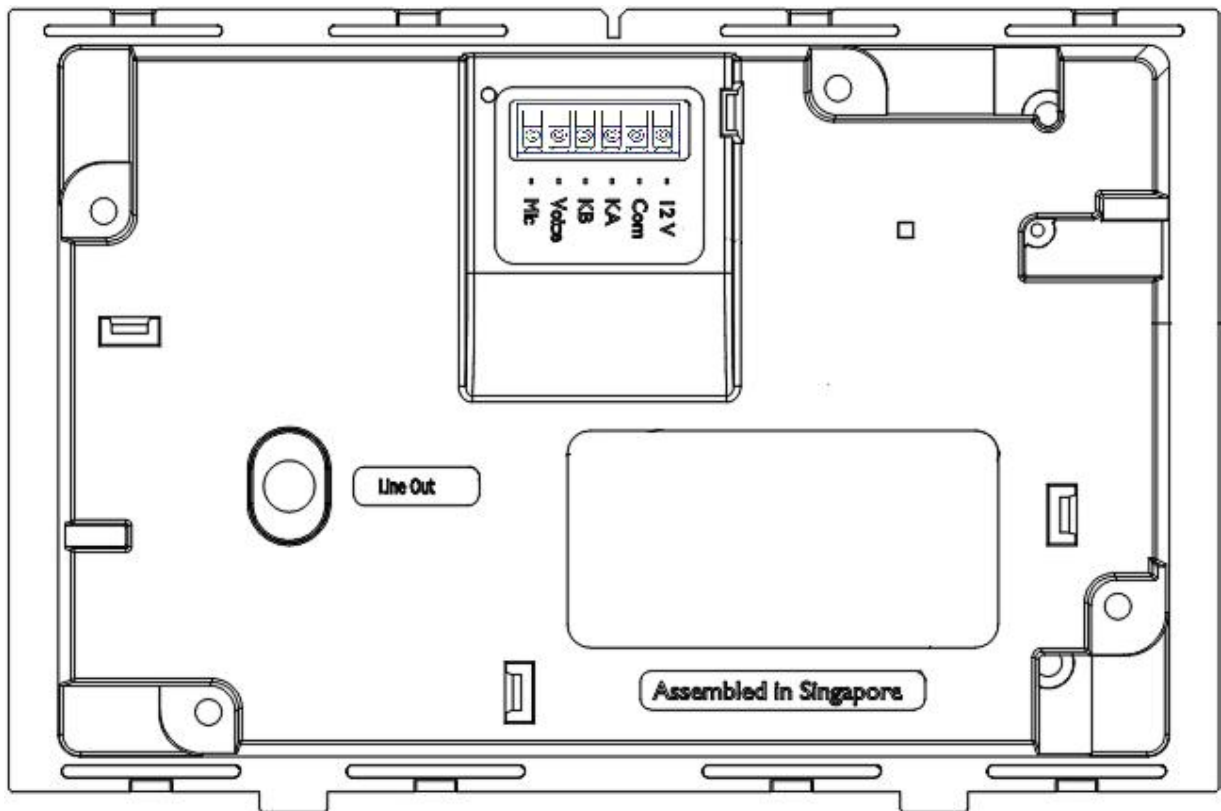
The KT03 consists of the following:

- Touch screen assembly in rear housing
- Faceplate, removable
- Wall Mount box
- USB programming cable
- 4 x partition locking pins for Partition mounting.
- 4 x mounting screws
- 6-way green terminal block 3.5 mm pitch.
- Extra LED Icon overlays for portrait and Reverse Landscape orientation. The LED lens for landscape orientation is installed in the KT03 when delivered.

System Requirements

- Comfort II ULT/OPT 5.203 and above (preferably 6.XXX)
- Configurator 3.4.0 and above
- UCM 6.008 and above with Ethernet or USB interface for programming Comfort.

Connections







- 12V - connect to 12V on Comfort (CAT5 Cable)
- COM - connect to COM on Comfort. (CAT5 Cable)
- KA - connect to KA on Comfort. (CAT5 Cable)
- KB - connect to KB on Comfort. (CAT5 Cable)
- Voice - connect to KP VOICE on Comfort. (CAT5 Cable)
- Mic - connect to KP MIC on Comfort. (CAT5 Cable)
- Line Out - connect to external amplifier (optional)
- P3 (USB connector), front side after faceplate removed - connect to PC to transfer KT03 configuration file.
- PP3 (PROG), front side after front faceplate removed- 6 pins connector. This is used for firmware upgrading by UCM programming cable. Note: KT03 Firmware 2.xxx does not use this method of firmware upgrading anymore. The KT03 should be connected to Comfort by CAT5 cable (preferably screened to reduce audio noise). The Keypad connections at Comfort can be shared by all keypads.

Button

- SW1 (Reset) front side after front faceplate removed. This button resets the KT03; it does not change any parameters in Comfort or KT03.

LED Indicators (on front panel)

-  Off (white) - Steady when Security is OFF (system disarmed), blinking when there is system trouble (Low Battery, AC Failure, RS485 Communications Failure, Phone Trouble)

-  Armed (blue) - Steady when Security is armed, blinking when there is an active alarm.
-  AC/Battery (orange) - Steady when AC power is lost, blinking when Battery is weak
-  Messages (green) - Steady when there is a new memo (internal) message, blinking when there is a new external message. Sign in on the keypad to listen to new messages.

LED Indicators (on PCB)

- D12 (Green) - Receive from computer (Comfigurator)
- D13 (Red) - Transmit to computer (Comfigurator)

KT03 ID Setting

Comfort is able to support up to 8 keypads, either KP03, KP04, KP05, KP06 or KT03 in any combination.

The KT03 shares the same ID space as other keypads such as KP03 and KP04. Do not set any keypad with the same ID as another keypad as this will cause a conflict and both keypads will not be able to work. When this ID conflict happens remove the connections from 1 KT03 and set the ID of the other KT03 which is still connected to a different ID.

In KT03, the ID is set using the KT03 Setup menu. Power up and press the Setup icon on the home page to go to the Setup Page.

The number keypad will appear. Enter the user code (default 1234#) to access the setup menu. Go to the ID page and select the ID 1 to 8 of the unit. If the KT03 is not connected to a Comfort system, the ID can be changed without entering the user code.

The KT03 ID can also be changed in Comfigurator in KT03 Properties.

SECTION 2 INSTALLATION

Location

Take note of the following guidelines when selecting a location to mount the KT03:

- KT03 is for indoors use only.
- If this is the only Comfort keypad in the premises, the KT03 should be mounted near the entry door to facilitate arming and disarming of the security system.
- Mount the unit at a suitable height for operating the touchscreen, slightly below eye level.
- The KT03 should not be located where there is excessive humidity, dust or direct sunlight.
- Avoid areas where there may be reflections from windows and light sources as this may cause unwanted reflections on the LCD.

Mounting Instructions

The KT03 can be mounted in.

- 1 wooden partition or plasterboard walls using the supplied plastic partition locking pins.
- 2 Solid walls of brick and other materials using the supplied wall mount box.

Orientation

The KT03 can be mounted in 3 orientations;

- Landscape (normal) with the speaker grille to the right
- Portrait (vertical) with the speaker grille at the bottom, or
- Landscape (inverted) with the speaker grille to the left.

The Wall mount box has an outline of the touchscreen as a guide to the correct orientation of the touchscreen assembly to the wall mount box.

The screen images can be designed for any orientation in Configurator.

The LED icon overlay on the touchscreen when delivered is for Landscape (Normal) orientation. If the unit is to be mounted in Portrait or Reverse Landscape orientation, the LED Icon Overlay on the faceplate must be changed to the appropriate one (supplied).



To change the Icon Overlay, remove the Front faceplate from the unit, turn it over and gently peel off the LED Icon Overlay. Remove the adhesive tape from the new LED Icon Overlay and carefully align it to the correct location before pressing firmly to fix the lens in place.


Mounting in Partition Walls

To mount the KT03 in a partition wall:

- 1 Cut an appropriately sized hole (155 x 99 mm).
- 2 Insert the supplied screws to the partition locking pins and tighten it just enough to hold the partition locking pins in place.
- 3 Place the KT03 on the wall.
- 4 Tighten the four screws through the four partition locking pins. The pins will rotate and ultimately clamp the touchscreen assembly to the wall.

Mounting in Solid Walls

To mount the KT03 using the Wall Mount box:

- 1 Create a hole in the wall of the appropriate size according to the Wall Mount Box.
- 2 Pull the cable through the Wall Mount box and place the Wall Mount box into the wall.
 The Wall Mount box must be mounted with the correct orientation with the Touchscreen assembly. There is an outline of the KT03 engraved on the Wall Mount box which shows the correct orientation for second fix.
- 3 Insert the supplied screws into the four holes and tighten them to fix the Touchscreen assembly to the Wall Mount box.

Attaching the Front faceplate

- 1 Position the front faceplate over the touch screen with the speaker window on the right. Hook the top of the front faceplate over the top of the KT03.
- 2 Press the bottom of the front faceplate with the catches over the bottom of the KT03 until you hear it snap into place.

Removing the Front faceplate

The front faceplate must be removed in order to reprogram the KT03 via the USB port.

- 1 Hold the front faceplate and apply pressure downwards to the bottom of the KT03.
- 2 Pull the faceplate away from the bottom side keeping the top side catch in place. Be gentle with this in order as not to pull away the Speaker wire from the Speaker mounted on the faceplate.

Firmware Upgrading

The KT03 Firmware can be upgraded using the KT03 USB port and Comfigurator software. KT03 firmware may be updated from time to time to introduce new features or to improve performance or fix bugs. Firmware files with .cbf extension can be downloaded from

http://www.cytech.biz/kt03_firmware.html

In Comfigurator, go to Transfer > Firmware Upgrade > For UCM or KT03 Direct to PC, and select the .cbf file.

Troubleshooting

RS485 Communications Failed!

"Check the wiring to Comfort or press CHECK ID to go to the ID Settings Page"

This message appears when there is no communications to KT03. The most likely reason is the KA/KB wire is not connected between Comfort and KT03

Possible Communications Error

"Due to Wrong ID or due to Comfort Program Transfer

Please Check ID or go to the ID Settings Page (for Engineer Only)"

This message appears because the KT03 is not polled, because the Number of Keypads in Comfigurator does not match the KT03 ID setting. Eg Number of Keypads = 1 in Comfigurator but KT03 ID=2. Either Add Keypad KT03 in Comfigurator or change the ID in KT03 to the correct setting.

Tamper Alarm Keypad

The tamper switch in KT03 may be open. This is behind the KT03 PCB. Check that the PCB is fully seated onto the plastic catch as shown below.



Programming of KT03

This is covered in a separate manual, the KT03 programming manual which can be downloaded from <http://www.cyttech.biz/manuals.html>

Document History

- Version 1.0.5 - 22 May 2011 Initial Release
- Version 1.0.6 - 10 March 2012 Improvements
- Version 1.0.7 - 25 March 2012 Added Troubleshooting

Important Note

The printed manual may not always be the most current version. Please check and download the latest version from <http://www.cytech.biz/manuals.html>

The downloaded manual is in A4 size. To print this manual as an A5 Booklet, on HP PCL printers select Page Scaling = Fit to Printable Area. Select Properties> Finishing Tab, Document Options = Print on Both Sides, Booklet Layout = Left Side Binding. Other printers may have different settings to achieve the same result.



web site: <http://www.cytech.biz>
Email: info@cytech.biz
Forum: <http://www.comfortforums.com>

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