

SECTION 1 INTRODUCTION



KP06 Keypad with FR2-CYT-BL Translucent Black Frame



KP06 Keypad with FR2-CYT-AL Silver Frame

Functions

The KP06 is a Keypad for the Comfort Intelligent Home System which has the following functions;

- Arm and disarm the Comfort Security System
- Control programmed lighting and appliances using the Home Control Voice Menu
- Voice Menu to guide the user through all operations.
- Record and play back messages on the Comfort answering machine
- Activate programmable short cut functions.
- Intercom with other keypads and Door stations
- Make programmed Voice announcements
- Built-in IR receiver for handheld remote control RC01 to control Comfort
- Engineer Voice Menu to program Comfort using Engineer Code.

Highlights

- Can be flush-mounted in Horizontal or Vertical Orientation
- Brushed metal appearance.
- Frame/faceplate is compatible in size with European System 55 2-gang frames manufactured by Gira, Jung, Merten and others, allow a vast choice of frames to match any taste and decor.

Specifications

- Frame Dimensions: 152 mm x 80 mm x 12 mm
- Frame Weight: 37 grams
- KP06-NF Weight: 186 grams without Frame
- LCD 2 lines x 16 characters white with backlight
- Power Supply 12VDC from Comfort, 50 ma idle current (without voice), 300 ma with voice
- IR Receiver - works with Black Translucent Frame FR2-CYT-BL only
- Speaker for Voice Menu, announcements and message playback.
- Microphone for message recording and intercom functions.
- Keyboard with 16 keys
- Volume up/down button
- Tamper protection. Removal of LCD or Keyboard submodule causes a Tamper alarm Keypad.
- Mounting - Flush-mounted in Euro 2 gang junction box in Horizontal or Vertical orientation.
- LCD menu settings for ID and other parameters.

Ordering Information

- KP06-NF KP06 Keypad, without Frame, comes with Euro 2-gang junction box for brick walls. Frames are ordered Separately. Take note of the 2 arrows on the top and left of the metal frame. These show the correct orientation for mounting on the wall, either Horizontally or Vertically. One

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of the arrows must always be pointing to the top direction.



- KP06-NP Keypad, without Frame, comes with Euro 2-gang junction box for partition walls. Otherwise identical to KP06-NF
- FR2-CYT-BL Black Translucent. Works with IR Receiver.

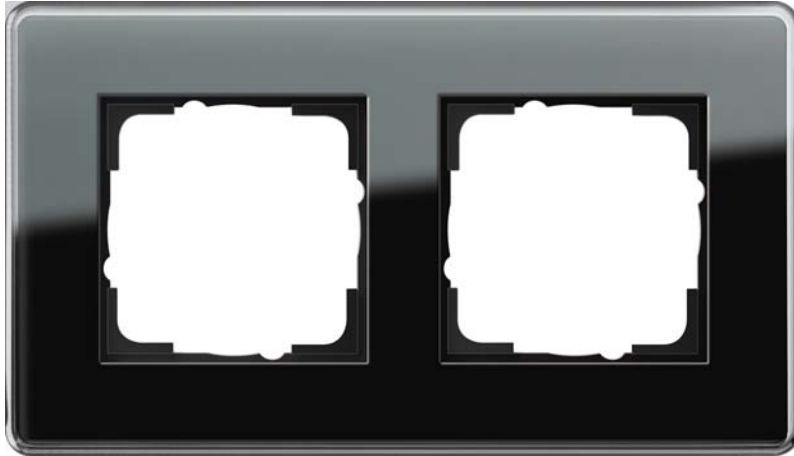


- FR2-CYT-AL Silver (Does not work with IR Receiver)



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- FR2-ES-BG Esprit 2 Gang Black Glass (Does not work with IR Receiver)



- FR2-ST-PW Standard 55 Pure White Glossy. (Does not work with IR Receiver)

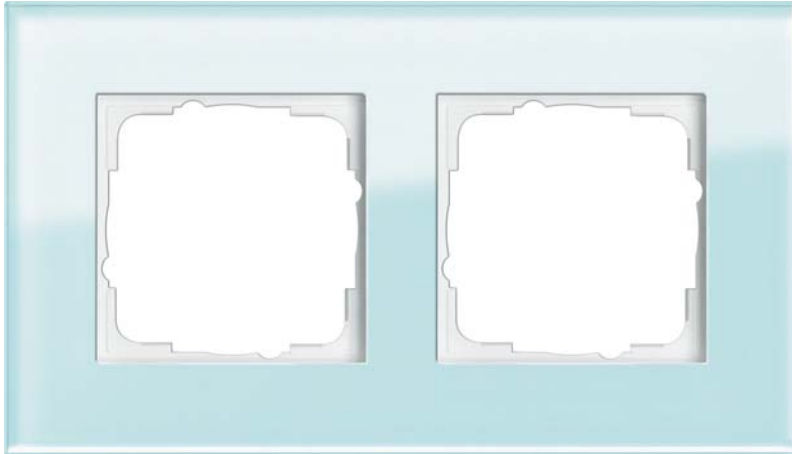


- FR2-ST-CW Standard 55 Cream White Glossy (Does not work with IR Receiver).

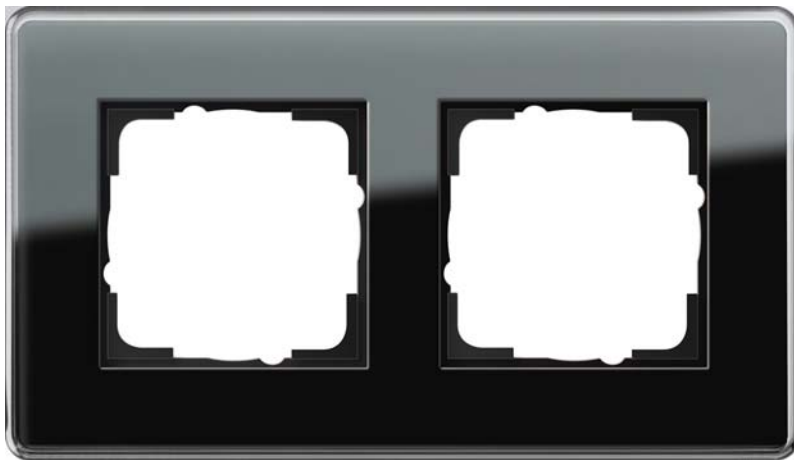


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- FR2-ES-MG Esprit Mint Glass Frame. (Does not work with IR Receiver).



- FR2-ES-BG Esprit Black Glass Frame. (Does not work with IR Receiver).



- Other applicable frames include FR2-ES-WG Esprit White Glass and others too many to mention.

Contents of KP06-NF/ KP06-NP

- Metallic Mounting Bracket 140 x 70 mm with KP06 Base PCB
- 4 x M3 self tapping screws
- LCD plug-in submodule, dimension 54 mm x 54 mm x 9.5 mm



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- Keyboard plug-in submodule, dimension 54 mm x 54 mm x 9.5 mm.



- 6 way terminal block, pluggable
- Euro 2 gang Junction box for brick wall, size 140 x 60 x 42 mm, 3.6 grams, black with 4 mounting screws . This is supplied with KP06-NF



- Euro 2 gang Junction box for partition wall, size 140 x 60 x 42 mm, 3.6 grams, black with 4 mounting screws. This is supplied with KP06-NP



Minimum System Requirements

- Comfort Firmware 6.005
- UCM firmware 6.008 with USB, Ethernet or RS232 for programming
- Configurator 3.3.3 and above for programming

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Connections

A 6 way removable terminal block is (JP1) for connection of a CAT 5 cable to Comfort.

- V+ connect to 12V on Comfort
- COM connect to COM on Comfort.
- KA connect to KA on Comfort.
- KB connect to KB on Comfort.
- Voice connect to KP VOICE on Comfort.
- Mic connect to KP MIC on Comfort.

Use a spare wire in the CAT5 cable for V+ and COM to reduce the wire resistance to avoid flickering of backlight during speech or voice menu,

Installation

- Power off Comfort while installing the KP06.
- For brick walls, cut to size a hole in the wall for the 2 gang junction box. KP06-NF includes the 2 gang backbox for brick walls.
- For partition walls, cut to size a hole in the wooden partition so that the KP06-NP screwed to the metal frame can fit in the hole. The metal frame edges should sit on the surface of the wall, preventing the KP06 from falling through the wall.
- Unplug the LCD and Keyboard submodules from the metal mounting bracket.
- Knock out or cut entry holes in the 2 gang junction box for the CAT 5 connection cable entry.
- Connect 6 wires to the JP01 terminal block V+, GND, KA, KB, MIC, VOICE.
- Mount the metal mounting bracket with PCB to the backbox using the 4 supplied screws. Note the 2 arrows engraved on the mounting bracket on the top or left side (see KP06-NF photo above) to show the correct mounting orientation when used in the horizontal and vertical direction.
- Push the assembly into the wall, or in the case of partition wall through the opening. The metal mounting bracket should rest on the surface of the wall.
- In the case of the partition wall, tighten the 4 long screws through the metal mounting bracket in order to pull in the 4 long restraining screws until the KP06 sits snugly to the wall.
- Position the 2 gang frame on top of the metal bracket.
- Cytech's own frames (FR2-CYT-BL Black Translucent and FR2-CYT-AL Silver) has guide pins to help position the frame onto the metal bracket. However, 3rd party System 55 frames do not have guide pins and must be positioned manually.
- Position and plug in the LCD Submodule and the Keyboard submodule into the 4 sets of connectors/sockets in each square hole. The LCD and Keyboard modules should face the same position as one of the arrows on the metal bracket i.e. to the top or left according to Horizontal or Vertical mounting. The LCD should be on the left hole for horizontal orientation or the top hole for vertical orientation. The Keyboard should be on the right hole for horizontal orientation or the bottom hole for vertical orientation. Make sure the submodules are plugged in securely and fully into the

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respective holes, but do not force the modules into the sockets as this may bend the pins. If the modules do not plug in using a slight force, the reason may be that you are attempting to plug the module into the wrong position (e.g. Keyboard on the left hole or LCD on the right) or you may be attempting to plug in to the wrong orientation and not following the arrows on the metal frame.

- Note that the Cytech standard frames FR2-CYT-xxx will be flush with the submodules when inserted fully. However for 3rd party System 55 frames, especially the glass types which are thinner, the submodules may protrude slightly from the surface of the frame.
- Switch on Power to Comfort. The LCD should turn on and "Security Off" should be announced after a few seconds

Removing and Changing Frames

- To change the frame or to change the orientation of KP06 from horizontal to vertical or vice versa, the frame should be removed.
- To remove the frame, grip the whole frame firmly with both hands and pull out together with the LCD and Keyboard modules taking care not to drop the modules when the frame is removed. Note that removing the Modules from the connectors will activate the Tamper Alarm if connected to Comfort. The KP06 should be disconnected from Comfort or Comfort should be put into Security Check Mode (F3,2) before attempting this.
- Replace the frame before plugging the modules back.

KP06 Settings

- 1 The KP06 is supplied with ID set to 1 as default. There are no shunts for configuration or setting in KP06 as all configuration is done through the Settings Menu.
- 2 Press F0 on any keypad to enable Engineer menu which enables the KP06 settings menu. Since KP06 is supplied as ID=1 by default, if there is another Keypad with that ID in the system, this will cause a clash of IDs when the new KP06 is connected. To change the ID of the KP06 in this case, wait for 20 seconds before trying to go into the Settings menu.
- 3 Press and hold the * key for 4 seconds to enter the Settings menu. If Engineer Menu has NOT been enabled, a message "Engineer Sign in Option is OFF". Press F0 on any keypad and try again. The following keys have the functions shown;

Key	Function
*	Next Page
#	Previous Page
VOL. Up Key	Option Up
VOL. Down Key	Option Down
F	Go to Save Menu

- 4 The following keypad settings pages are available; Keypad ID, Key Beep, Alert Beep, Backlight, IR receiver, Voice Broadcast, Tamper, Save Menu

Settings Menu	Options	Default	Explanation
Keypad ID	1 to 8	1	ID of this keypad
Key Beep	Soft/ Loud/ Disable	Soft	Volume of key beeps
Alert Beep	Soft/ Loud/ Disable	Soft	Volume of KP generated beeps e.g. Error beep
Backlight	Automatic/ Always On/ Always Off	Automatic	LCD & Keyboard Backlight setting
IR Receiver	Enable/ Disable	Enable	Built-in IR Receiver
Voice Broadcast	Enable/ Disable	Enable	Broadcast Voice /siren
Keypad Tamper	Enable/ Disable	Enable	Module Tamper

Save Menu	Yes/ No	No	Save/Dont Save Changes
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Keypad ID

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

KP06 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 this will cause a conflict and lead to a “communication failure” trouble alarm, and both keypads will not be able to work.

Select ID 1 to 8 (default 1)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Note: If the KP06 ID is not correctly set or if there is a clash of IDs, and if the message “Engineer Sign in Option is OFF” appears, wait for 20 seconds and try again. F0 on the keypad is not needed in this case.

Key Beep

This determines the volume of the key beep when any key is pressed. Select Soft, Loud or Disable (default Soft)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Alert Beep

This determines the volume of Alert tones generated by the KP06 e.g. Error beep, short beeps. Continuous beeps. Select Soft, Loud or Disable (default Soft)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Backlight

This determines the behaviour of the LCD and Keyboard Backlight.

Select Automatic, Always On or Always Off (default Automatic).

Automatic means the backlight will turn on when there is an alarm or a key is pressed and will turn off after some time.

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

IR Receiver

This determines if the IR Receiver is enabled. If there are several IR receivers e.g. SCS, IRR01 with RIO in the same room, then it may be desirable to disable the KP06 IR receiver.

Select Enable or Disable (Default Enable)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Voice Broadcast

This determines if the KP06 will respond to broadcast Voice messages from Comfort, e.g. Announcements of Security Off, Away Mode, beeping and siren

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tones, alarm and zone announcements. This can be turned off when the KP06 is installed in a bedroom or rooms where people are not to be disturbed.

Select Enable or Disable (Default Enable)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Keypad Tamper

This determines if the Tamper alarm is activated when the LCD or Keyboard submodule is removed from the KP06 metal bracket. In order to remove the submodules without causing a Tamper alarm, go to Security Check Mode (F3,2 on the keypad), which announces zones and tamper events without causing alarms.

Select Enable or Disable (default Enable)

Press * for next page, or # for previous page, VOL. Up/Down to change options or F for Confirm Menu

Save Menu

Save and Apply - Yes, No (default NO)

“Yes” causes settings to be saved and KP06 to reset

“No” causes changes to be lost and exit from Settings menu

“*” or “#” goes back to the Settings Menu, or VOL. Up/Down to change the option.

Press F again to confirm the selection (Yes/No).

The settings menu will exit without changes after 25 seconds without any key pressed.



To discard any changes you must press F in settings to go to Save Menu and select NO.

Resetting to Default

Press and hold the * key for 6 seconds to reset to factory default. Keep pressing after the Settings menu appears after 4 seconds. This requires Engineer Menu to be enabled beforehand (i.e. Press F0 on any keypad). Select Yes to confirm or No to exit. See the above sections for the default settings in each case.

For instructions on Comfort Installation, please refer to the Comfort II Installation and programming manuals which can be downloaded from http://www.cytech.biz/installation_and_programming.html

SECTION 3 OPERATION

LED Indicators

-  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.

Keys

Key/Combination	Function
0 to 9	0 to 9
*	*
#	Enter key
AWAY	Arm to Away Mode
NIGHT	Arm to Night Mode
DAY	Arm to Day Mode
F	Press F + Key 0 to 9 for Shortcut menu or Exit from Voice Menu
Up	Increase voice volume or select option in settings menu
Down	Decrease voice volume or select option in settings menu
* & 1 simultaneously	Sync LCD Text with Comfort
# & 9 simultaneously	Display Version and ID
F & AWAY simultaneously	Immediate Panic Alarm
F & Night simultaneously	Immediate Fire Alarm
* hold 4 seconds	KP06 Settings Menu
* hold 6 seconds	Reset KP06 settings to default

Refer to the Quick Start Guide and the Comfort Reference Manual for further details of Comfort operation which can be downloaded from http://www.cytech.biz/user_guides.html

SECTION 4 FIRMWARE UPGRADING

KP06 Firmware

The KP06 firmware is the embedded microprocessor program that determines how the KP06 works, like the operating system of a computer.

It is possible to upgrade KP06 Firmware in order to enhance the features or fix "bugs" in the firmware.

The firmware can be upgraded using the Configurator software and a UCM/USB, UCM/Ethernet and UCM/232.

Minimum Requirements for Firmware Upgrading

- Comfort firmware 6.005 and above
- UCM 6.008 and above
- Configurator 3.3.3 and above

Firmware Upgrading Procedure

- 1 In Configurator, go to Options > Connections > UCM Connection and select USB, Serial or Ethernet, then the port to connect to the UCM doing the upgrade.
- 2 Go to Transfer > Firmware Upgrade and select "For Module Connected to Comfort Bus"
- 3 Enter your user code in the pop-up window when asked
- 4 Configurator will scan the modules and discover which modules can be upgraded by Bus. A window will open as shown below



- 5 Look for KP06 and press OK.
- 6 You will have to press F0 on any keypad before you can upgrade the firmware. If not Configurator will prompt you to press F0
- 7 A window will open for file selection. Browse to the folder with the cbf firmware file. The latest firmware upgrade files can be downloaded from <http://www.cytech.biz/firmware.html>
- 8 When the file is selected the firmware upgrade will start. A progress bar will appear showing the progress of the upgrade. There will be 2 stages of firmware upgrading. Do not interrupt the firmware upgrading at any point.
- 9 The time taken to upgrade firmware depends on the size of the file. Comfort firmware upgrade will take 10 to 15 minutes, and UCMs and slaves will take just a few minutes. Do not attempt to operate Comfort during this time.

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- 10 If the firmware upgrading is interrupted for any reason by an error message or program or PC crash, just repeat the procedure.
- 11 DO NOT RESET or remove power from Comfort or the KP06 being upgraded, otherwise the firmware will be corrupted. Always repeat the firmware upgrade immediately if there is a problem.
- 12 When the firmware upgrade has been completed without errors, the KP06 is ready for use.

Firmware History

KP06 firmware 6.001 Initial Release

Document Revision History

02 November 2011 - 1.02 Initial release

27 November 2011 - 1.03 Information about Tamper

15 December 2011 - 1.04 added partition wall mounting with KP06-NP

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>

This manual is in A4 format. 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.

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