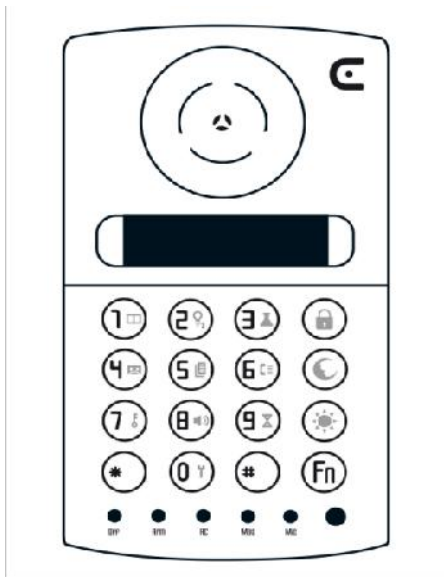# KP04A Keypad

KP04 A Keypad

KP04A is an improved version of KP04 with programmable settings replacing fixed shunts, able to be changed via Comfigurator, and the ability to upgrade its firmware.

The KP04A Keypad has a 2 line x 16 character LCD which shows alarms, zones, warnings and Event Log. KP04A has a Voice menu and is able to receive Infrared codes from the RC01 remote control allowing control of alarm and home appliances. Includes a speaker and microphone for recording, intercom and voice announcements.

Specifications
- Dimensions: 89 x 160 x 31 mm. Carton 92 x165 x45 mm
- Weight: 177 g
- 2 lines by 16 character LCD with adjustable backlight.
- Power Supply: 12V DC from Comfort System
- Current Consumption: 50 mA idle (No voice)
- Comfort IR codes received: RC01 codes
- Speaker for announcement, intercom , messages.
- Microphone for recording and Intercom
- Up to 8 Keypads (KP04/KP05, KP06/ KT03)

System Requirements
- Comfort II Controller firmware 7.061 & above

Contents
- KP04A keypad
- 2 wall plugs and screws for mounting.
- 3 x 2 way removable terminal blocks

Connections to Comfort
- JP1 – 12V/COM Connected to 12V/COM (Comfort)
- JP2 – KA/KB. Connected to KA/KB (Comfort.)
- JP3 – VOICE/MIC Connected to KP VOICE/MIC (Comfort)

LEDs on PCB
- D15 (Red) - RS485 reply to poll.
- D16 (Green) - RS485 Poll by Comfort

Both D15 and D16 should be blinking when communicating wth Comfort.

Cables

Shielded twisted 4-pair cable advised for wiring between Comfort and keypads to avoid interference from mains wiring and electrical appliances to Microphone signals.

Jumper Settings

None - all settings using Setup.

Front Housing LED Indications

Off (Green)	
Steady	Security Off, all conditions Normal (no trouble)
Blinking	Trouble e.g. Phone line cut, RS485 comms failure. Trouble Condition is displayed
Arm (Red)	
Steady	System armed, No alarm
Blinking	Alarm / Alert condition.
AC (Red)	
Steady	Mains Power failure.
Blinking	Comfort Battery voltage low due to prolonged power failure. Battery may need to be replaced.
Msg (Green)	
Steady	New Internal message. Press # to hear who the message is for. Sign in with user code to hear the message
Blinking	New message from phone. Press # to hear who the message is for. Sign in with user code to hear the message
Mic (Red)	
Steady	Microphone ON for Recording or Intercom

Installation

KP04A should be installed in an indoor location, not outside the premises for security reasons.

- Remove the screw at the base and pull the front housing from the back housing.
- Mount the back housing on the wall using the screws supplied.
- Connect the 6 wires from the terminal blocks (JP1, JP2 , JP3) to the Comfort PCB according to the signal name. Note the 12V should be connected to the 12V terminal on Comfort, not S12V
- If more than one Keypad/Door Station is used, connect their 12V and ground wires back to Comfort individually, not in series to avoid excessive voltage drop along the cable.

Comfort II Text Synchronisation

If the LCD displays "Wrong Text. Press *1 to sync". press and hold the "*" followed by "1" keys to sync the KP04 text with Comfort. The screen shows "Downloading" with status bar. After the process completes, the keypad will reset and "beep". If this does not work, sign in on the keypad and check if the Voice menu is heard.

KP04A Settings
1. The KP04A has ID set to 1 as default. There are no shunts for configuration or setting in KP04A as all setting is done through the Settings Menu.
2. Since the keypad is supplied as ID=1 by default, if there is another Keypad with the same ID in the system, this will cause a clash of Ids when the new keypad is connected. To change the ID, wait for 20 seconds before trying to go into the Settings menu.
3. Press and hold the * key for 4 seconds until "Enter Engineer Code" is seen. If Engineer Code has NOT been enabled, a message "Engineer Sign in Option is OFF". Press F0 on the keypad and try again. The following keys have the functions shown;

Key	Function
*	Next Page
#	Previous Page
8	Option Up
0	Option Down
F	Go to Save Menu

The KP04A Settings are shown below;

Settings	Options	Comment
Keypad ID	1* to 15	ID of this keypad
Key Beep	Soft */ Loud/ Disable	Volume of key beeps
Alert Beep	Soft/ * Loud/ Disable	Volume of KP beeps e.g. Error Long beep
Backlight	Automatic */ Always On/ Always Off	LCD & Keyboard Backlight setting
IR	Enable* / Disable	IR Receiver

Settings	Options	Comment
Receiver		
Voice Broadcast	Enable*/ Disable	Broadcast Voice /siren
Keypad Tamper	Enable*/ Disable	Internal Tamper
Date Format	DD-MM-YY * etc	Select date format
Time Format	12 Hr* / 24 Hr	Select Time format
LCD Contrast	0-63 (def 37*)	LCD Contrast
Backlight Off	0-31 (def 1*)	LCD level for backlight OFF
Factory Default	Yes/No*	Reset to Factpry default
Save Menu	Yes/ No*	Save Changes

* indicates default setting

☎ In any settings menu, press * for next page, or # for previous page, 8 or 0 to change options or F for Confirm Menu

Keypad ID

Comfort is able to support up to 8 keypads, either KP03, KP04, KP05, KP06,KT03 in any combination. KP04A shares the same ID space as other keypads. Do not set any keypad with the same ID as another keypad as this will cause a conflict and lead to a "communication failure" trouble alarm, and both keypads will not be able to work.

☎ If the 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)

Alert Beep
This determines the volume of Alert tones generated by the KP04A e.g. Error beep, short beeps. Continuous beeps. Select Soft, Loud or Disable (default Soft)

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.

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 KP04A IR receiver.

Voice Broadcast
This determines if the KP04A will respond to broadcast Voice messages from Comfort, e.g. Announcements of Security Off, Away Mode, beeping and siren tones, alarm and zone announcements. This can be turned off when the KP04A is installed in a bedroom or rooms where people are not to be disturbed.

Keypad Tamper
This determines if the Tamper alarm is activated when the LCD is removed from the base. Also you can remove the KP04 without Tamper alarm by going to Security Check Mode (F3,2 on the keypad), which announces zones and tamper events without causing alarms.

Date Format
Select between various date formats

Time Format
Select between various time formats

LCD Contrast
Select LCD Contrast 0 to 63

BackLight Off
Select the brightness of the backlight when it is in the off state (after timeout). Values 0 to 31 . Higher value allows the LCD to be read even when backlight is off.

Save Menu
Save and Apply - Yes, No (default NO)
"Yes" causes settings to be saved and KP04A to reset
"No" causes changes to be lost and exit from Settings menu
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.

KP04A Settings in Comfigurator
The KP04A settings can also be changed in Comfigurator, and can also be read from the KP04A to Comfigurator. In Comfigurator, go to the Modules Tab, right Click and select Scan for all Modules.

This will detect that KP04A is connected if all keypads have unique IDs. Select the KP04A on the left pane. The right pane shows the display below;

Keypad03

| Write to Keypad | Read from Keypad | Reset to Default |

Keypad Properties	
Id	3
Name	Keypad03
Type	KP04A
Volume	50
Version	7.003
Latest Version	Unknown
Serial Number	Unassigned
User Comments	

KP0x Properties	
Key Beep	Soft
Alert Beep	Soft
Backlight	Automatic
IR Receiver	Enable
Voice Broadcast	Enable
Keypad Tamper	Disable
Date Format	DD-MM-YY
Time Format	12 Hour
LCD Contrast	40
Backlight Off	10

"Write to Keypad" will write the settings to the KP04A. "Read from Keypad" will read the settings from KP04A.

90 x 150 mm
Revised August 2015