EC-KP Manual V1.2

Slimline Hardwired Keypad for EC-i, ESL, Runner & ESX-V2
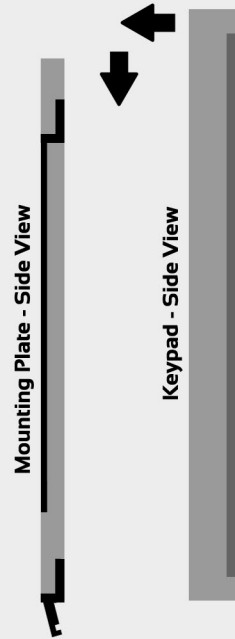

infinity series
powered by EliteControl

Specifications

Voltage	12VDC
Current Draw	70mA max
Mounting Height	(Recommended) 1.2m to 1.5m
Push Terminals	0.2mm2 - 0.5mm2 security cable
IP Rating	IPX0 (indoor use only)
Tamper	Calibration & alarm (optional)
Backlighting	3 programmable options
Mounting	Vertical flush box or direct fix
Dimensions	H118 x W74 x D12mm
Warranty	5 years

Compatible Control Panels

EC-i, ESL-2, ESL, Elite S, Elite S Lite, ESX V2
& Runner

Fitment

Mounting Plate - Side View

Keypad - Side View

- Fit mounting plate level on the wall.

- Make sure the entire system is powered down.

- Terminate POS, NEG, CLK & DAT as detailed in the 'Hardware & Cabling Overview' below

- Place keypad over mounting plate as shown then slide down until a click is heard from the securing clip.
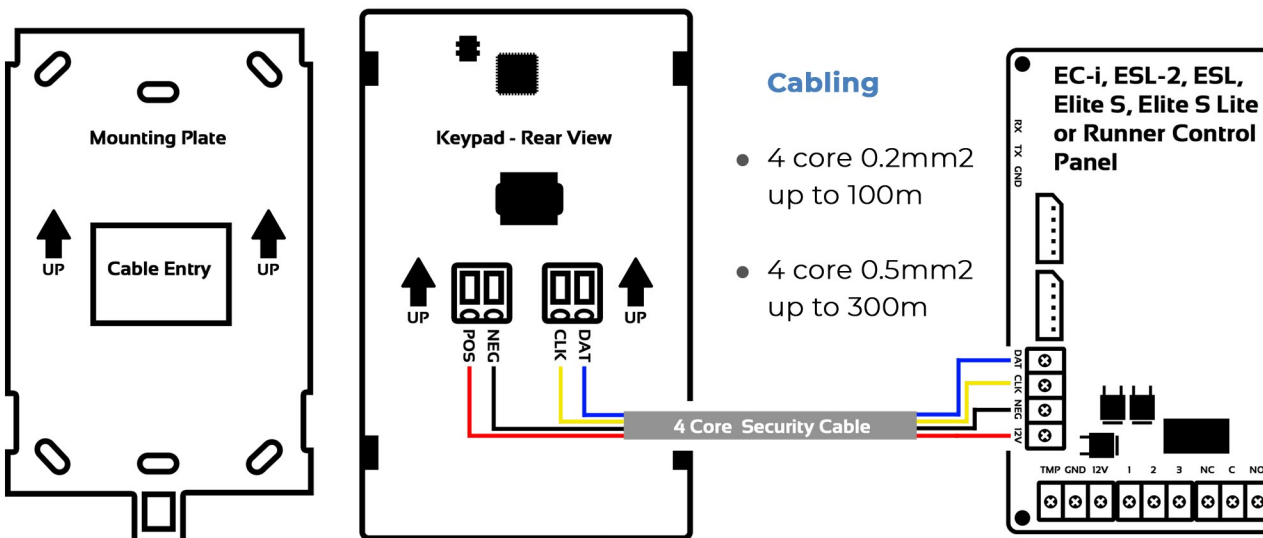
Programming & Display

Ensure the keypad is mounted to its backplate (on the wall) before use. This is imperative to ensure the capacitive touch calibrates correctly.

The EC-KP best programs & displays up to 8 x Inputs, 8 x Outputs, 8 x Areas, 8 x Keypads, 8 x Schedules & 8 x Holidays. Some programming values over '8' are available, however these are not recommended on the EC-KP due to the nature of the display.

Systems greater than 8 inputs, 8 outputs etc are best programmed via the EC-TOUCH, EC-LCD, web browser or EliteCloud dashboard (coming soon). It is recommended to use the EC-KP along with the EliteCloud smartphone app for the best user experience.

Hardware & Cabling Overview

Mounting Plate

UP   Cable Entry   UP

Keypad - Rear View

UP   POS NEG   CLK DAT   UP

Cabling

- 4 core 0.2mm2 up to 100m

- 4 core 0.5mm2 up to 300m

4 Core Security Cable

EC-i, ESL-2, ESL, Elite S, Elite S Lite or Runner Control Panel

RX TX GND

DAT CLK NEG 12V

TMP GND 12V   I   2   3   NC   C   NO

Button & Icon Overview

AC/Battery Icon [⚡]

Invisible = No power fault.
Solid Red = AC failure.
Flashing Red = Battery failure.

Away Arm Button [Arm]

Solid White = Away disarmed for all areas.
Solid Red = One or more areas are armed.

Stay Arm Button [Stay]

Solid White = Stay disarmed for all areas.
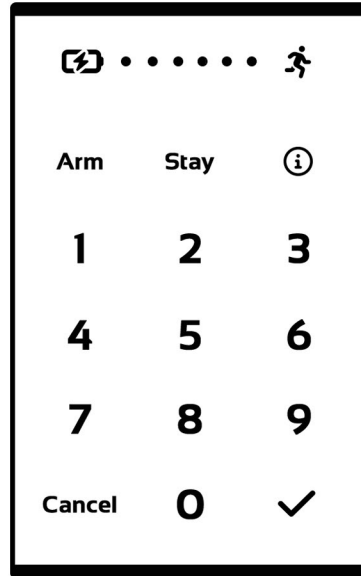Solid Red = One or more areas are stay armed.

Cancel Button [Cancel]

Press to perform the following functions:
Clear an incorrect code.
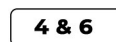Cancel arming during exit delay.
Return back to the home screen.

Running Person Icon [🏃]

Invisible = No open/active inputs.
Solid White = An input from 1-248 is open/active
Flashing White = Currently displaying open/
active inputs (from 1 -8 only).

Info Button [ⓘ]

Solid White = Everything OK.
Solid Red = There is a current system fault.

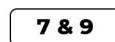**Code Entry Indicators** [• • • • • •]

Displays how many digits are currently input
on the keypad. Press Cancel button to clear.

Enter/Confirm Button [✓]

Must be pressed after code entry for code
to be accepted or action to be performed.

Panic Alarm ⚠ [1 & 3]

Press 1 & 3 together to trigger
the Manual Panic Alarm.
Programmable at address P72E.

Fire Alarm 🔥 [4 & 6]

Press 4 & 6 together to trigger
the Manual Fire Alarm.
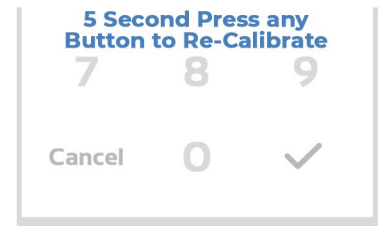Programmable at address P72E.

Medical Alarm 🛡 [7 & 9]

Press 7 & 9 together to trigger
the Manual Medical Alarm.
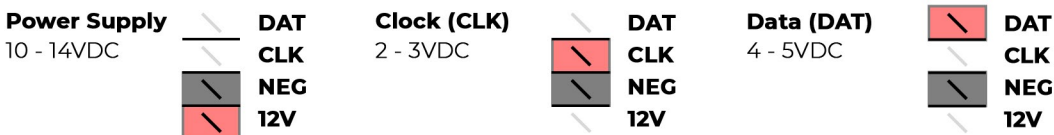Programmable at address P72E.

Calibration

Ensure the keypad is mounted to its backplate (on the wall) before calibrating. This is imperative to ensure the capacitive touch sensitivity calibrates correctly.

- The EC-KP calibrates itself each time that it is fixed to the backplate or powered ON

- A manual calibration can be performed by pressing & holding any key/button for more than 5 seconds before releasing.

- The LED indicators at the top of the keypad will cycle from left to right during the calibration process, then 4 quick beeps will sound to indicate that the calibration is complete.

Keypad Bus Information

The following voltages should be present for the keypad bus to operate correctly:

Power Supply
10 - 14VDC
DAT
CLK
NEG
12V

Clock (CLK)
2 - 3VDC
DAT
CLK
NEG
12V

Data (DAT)
4 - 5VDC
DAT
CLK
NEG
12V

- These voltages should be similar when measured at the keypad, or at the control panel.

- The EC-KP will also display a 'C' to indicate that there is no clock as shown here:

Firmware Version

The EC-KP firmware version is retrieved by entering installer programming and then pressing 'Cancel' 903 'Tick'. See address P200E16E in the full manual for update information.

Menu (Programming & Diagnostics)

- Press the ⓘ icon found on the 'Home Screen' to access the menu.
- Next press the number shown on the left of 'Table 1' below to access the function/setting that you require.

Function	Option/Description	Table 1
1 Installer Programming	Installer/Technician code required to access this function	
2 History	After entering the History menu, each press of the ✓ icon steps you back through the history events shown in 'Table 2' below:	
3 Current System Faults	Each fault within option 3 is indicated by a number as follows: **1** System Tamper Alarm **5** Not used **2** Input Tamper Alarm **6** Wireless Device Batt Low **3** *Reserved for future use* **7** *Reserved for future use* **4** Fuse Failure **8** *Reserved for future use*	
4 Sleep Options	There are 3 selectable sleep options (1 to 3) as detailed below: **1** Illumination will time out after 30 seconds & will only wake when touched. **2** Illumination will time out after 30 seconds & will only wake with any movement detected by the system sensors. **3** Illumination is continuously ON.	
5 Brightness	**1** = Least bright & **6** = Most bright. Press ✓ to confirm.	
6 Beep/Buzzer	**1** = Lowest frequency, **9** = Highest frequency & **0** = OFF Press ✓ to confirm once the selection has been made.	
7 Open/Active Inputs	Displays any sensor from 1 to 8 that is open/active. Open/active sensors above 8 can not be viewed on the EC-KP.	
8 Snooze/Bypass Function	Select/illuminate any sensor from 1 to 8 to make them inactive during the next arm/disarm cycle. I.e. If the number is bright, it will become inactive when the system is armed. If the number is dim it will remain active. Once Snoozed; 24Hr alarms (such as fire detection devices) will not become active again after an arm/disarm cycle. These need to be manually turned back on from within the Snooze/Bypass menu.	

History (Option 2 in the keypad menu as detailed above)

The EC-KP displays history in a restricted form due to the nature of the display. More informative history can be accessed via the EliteCloud smartphone APP or alternative EliteControl alarm keypads

Display	History Description	Table 2
🏃 + 0	Alarm cabinet or siren tamper switch activated	
🏃 + 1 - 8	Sensor activated (sensors 1 - 8 only)	
🏃 + 9	Sensor activated (sensor 9 or above)	
Arm	System disarmed	
Arm	System armed	
Stay	Stay mode disarmed	
Stay	Stay mode armed	
🔋 + 1	AC power failure	
🔋 + 2	Back up battery failure	

Installer Programming

⇥ Enter Installer Programming from the home screen
- Press the 'Info Button' ⓘ & options 1 - 8 will appear.
- Press option 1 to access installer programming & ⓘ will slow flash white.
- Enter the correct installer code (default 000000) followed by ⊘ to confirm.
- ⓘ will fast flash white to indicate you are in installer programming.

↤ Exit Installer Programming
- Press the 'Cancel' button several times until you return to the 'Home Screen'.

Keypad Address

Setting or Viewing the Keypad Address
- Enter installer programming as detailed above:
  Make sure ⓘ is fast flashing white to indicate that you are in programming mode before proceeding.

- Press **Cancel** 902 followed by the ⊘ icon & the current keypad address will display (from 1 - 8 only).
- Select the new keypad address followed by the ⊘ icon to confirm.

  Note: All keypads on one system must be set to their own independent address to help avoid bus conflict.

- Press the 'Cancel' button 2 times to exit back to the 'Home Screen'.

Address Type Programming

Address programming is available via the EC-KP, however some addresses are restricted on this keypad.

Below is a summary of the most common programming addresses for ESL & EC-i.
Make sure you are in installer programming as detailed above before proceeding.

⚲ User Codes
Cancel 1 ⊘ 1 ⊘ New Code (1 to 6 digits) ⊘ - This example is to set/change 'User 1'.
Cancel 1 ⊘ 2 ⊘ New Code (1 to 6 digits) ⊘ - This example is to set/change 'User 2'.

⚶ Input Entry Delays
Cancel 144 ⊘ 1 ⊘ Delay Time (0 to 9999 Seconds) ⊘ - This example is to set/change 'Input 1'.
Cancel 144 ⊘ 2 ⊘ Delay Time (0 to 9999 Seconds) ⊘ - This example is to set/change 'Input 2'.

⚶ Exit Delay
Cancel 60 ⊘ 1 ⊘ Delay Time (0 to 255 Seconds) ⊘ - This example is to set/change 'Area 1'.

See our ESL, EC-i or ESX V2 control panel manuals for a complete list of programming options.

Important

IPXP0 (indoor use only)

Keep away from high voltage & inductance.

Avoid installing in direct sunlight.

Avoid installing in high humidity.