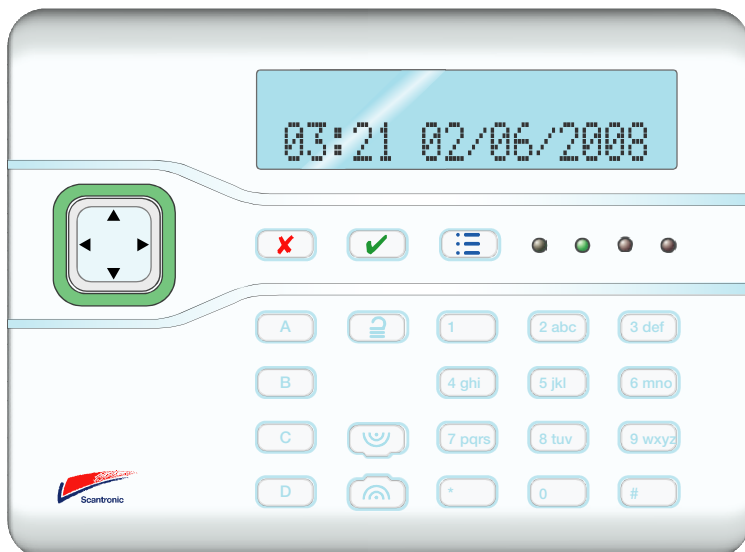


I-KP01 Keypad



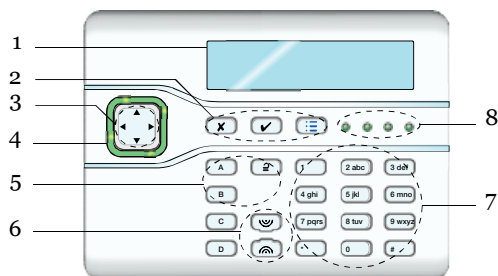
Installation Guide

Introduction

The I-KP01 Keypad is designed to work with the I-ON series of control units. The keypad allows users to set and unset an i-on alarm system and installers to program the system.

Keypad Controls and Displays

Figure 1 shows the controls and displays available on the keypad.



- | | |
|----------------------|--------------------------------|
| 1. LCD display . | 5. Setting and unsetting keys. |
| 2. Programming keys. | 6. Panic Alarm (PA) keys. |
| 3. Navigation keys | 7. Number/text keys. |
| 4. Alert LEDs | 8. Set/Unset LEDs. |

Figure 1. Controls and Displays

To open the unit, unclip the trim from the front and remove the two screws hidden underneath (see Figure 2). Then gently lever the front from the back box using a flat bladed screwdriver on the recessed slots at the bottom or top. Note that the front plastic housing contains the printed circuit card (pcb) (see figure 4).

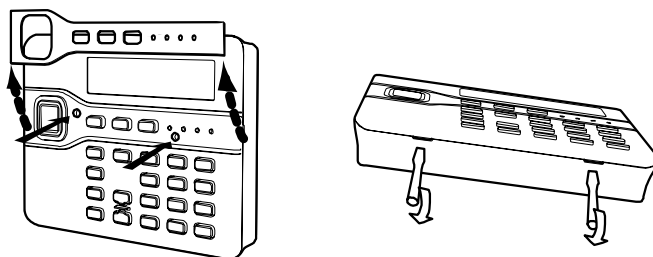
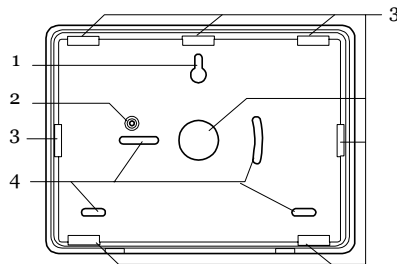
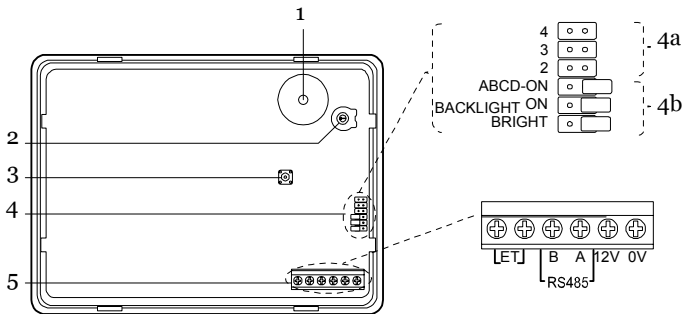


Figure 2. Opening the Keypad



- 1. Central keyhole.
- 2. Rear tamper shroud.
- 3. Cable entry.
- 4. Fixing holes.

Figure 3. Keypad Rear Housing



- 1. Sounder.
- 2. Sounder volume control.
- 3. Tamper switch.
- 4. Jumpers for addressing and LED function:
 - 4a Addressing
 - 4b LED functions
- 5. Connector for end station.

Figure 4. Keypad PCB

Technical Specifications

Product name	I-KP01
Sales number	I-KP01
Environmental	Class II.
Operating temperature	Tested -10 to +55°C.
Humidity	
Dimensions:	115 x 156 x 34, mm HxWxD
Keypad weight:	0.32 kg
Case material	ABS
Security Grade	Grade 3.
Current Consumption	65mA

Installation

Siting the Keypad

Do site the keypad:

Within the area protected by the alarm system.

At a convenient height and location for the user.

Out of sight of potential intruders.

Do NOT site the keypad:

Next to electronic equipment, particularly computers, photocopiers or other radio equipment, CAT 5 data lines or industrial mains equipment.

Where the cable run from the end station will be longer than 100m (see page 5).

Note: Do not site two or more keypads closer than one metre together, otherwise their prox readers will interfere and be unable to read tags.

Fitting

Use M5 25mm countersunk screws in at least three fixing holes when mounting the back of the keypad on the wall.

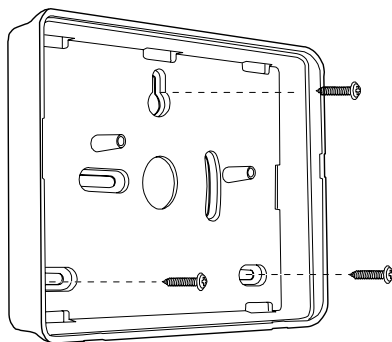


Figure 5. Screw Keypad Back Box to Wall

Connect Keypad to End Station

CAUTION: Remove all power (both mains and battery) from the control unit before connecting the keypad.

Cable Type

In general, the control unit requires standard 7/0.2 un-screened alarm cable for wiring to keypads.

Screened cable may prove necessary if the installation site has equipment that produces high levels of R.F. (Radio Frequencies), for example welding equipment. If screened cable is required, you should keep to the following guidelines:

1. Avoid earth loops by connecting the screen on the cable to mains earth at the end station but not at the keypad.
2. The continuity of the cable screen is most important and screens **MUST** be continuous along the full length of the cable.
3. If the cable enters any metal enclosure, ensure the screen is isolated from the case.

Cable Segregation

Segregate the keypad cabling from any other wiring, such as mains supply cables, telephone cables, computer network cables and R.F. cables. Use cable ties to keep cables separated.

Keep the keypad cable clear of cables supplying sounders or extension loudspeakers.

Connection

You can connect up to two keypads to the end station. You may connect the keypads either serially, or in parallel at the end station connector. The cable length from control unit to the most distant keypad should not exceed 100m.

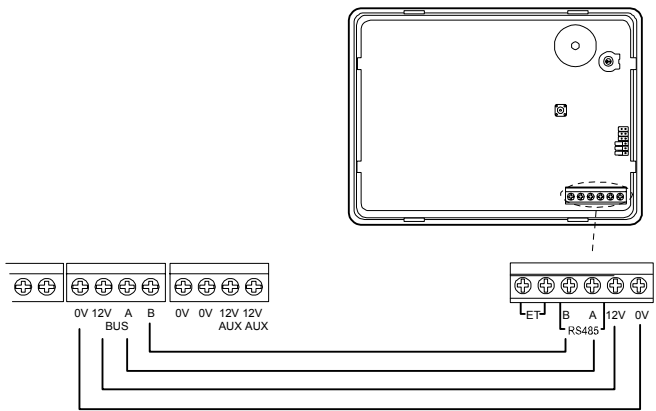


Figure 6. Keypad Connection

Keypad Addressing

Each keypad connected to an end station must have a unique address. See Figure 4 on page 3 for the position of the addressing jumpers. Do not fit links to jumpers 3 or 4.

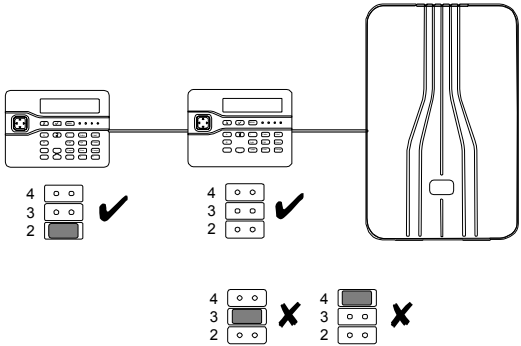

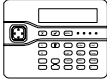


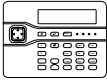



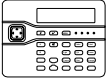



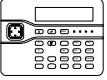



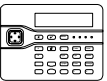



Figure 7. Keypad Addressing Jumpers

Backlight Control

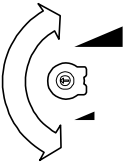
You can control the appearance of the keypad backlights and set/unset LEDs by fitting links over the appropriate jumpers on the keypad pcb (see Figure 4 on page 3 for the position of the jumpers).

The jumpers have the following functions:

ABCD-ON 			The set/unset leds are disabled.
ABCD-ON 			The set/unset leds shows the setting status of the system. (Full set is led A.)
BL- ON  -BRIGHT 			The key backlights are disabled. They will glow briefly for five seconds when a user presses a key.
BL- ON  -BRIGHT 			The key backlights glow, all the time at normal intensity.
BL- ON  -BRIGHT 			The keypad backlights glow all the time, extra bright.

Tone Volume

To adjust the volume of tones from the keypad:



Louder

Note: This control changes the volume of non-alarm tones (for example Exit/Entry tone). The volume of alarm tones is fixed.

Softer

Figure 8. Adjusting Tones and Chime Volume.

Maintenance

The only maintenance required is an annual test of the keypad keys and cleaning.

Testing the Keys

To start testing, make sure the system is idle then:

1. Enter the Installer Menu and select *Test*.
The display shows the Test menu.
2. Select *Keypads*.
3. Press each key once. The display shows a character in response. Press both panic alarm keys together to test. Press **×** to end the test.

Cleaning

Clean the outside of the case with a soft dry cloth. Do not use water, solvents or any proprietary cleaning agents.

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This manual applies to software used in the I-ON16 control unit with version 1.xx.xx software.

www.coopersecurity.co.uk

Product Support (UK) Tel: +44 (0) 870 757 5400.

Available between:

08:15 and 17:00 Monday to Friday.

Product Support Fax: (01594) 545401

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