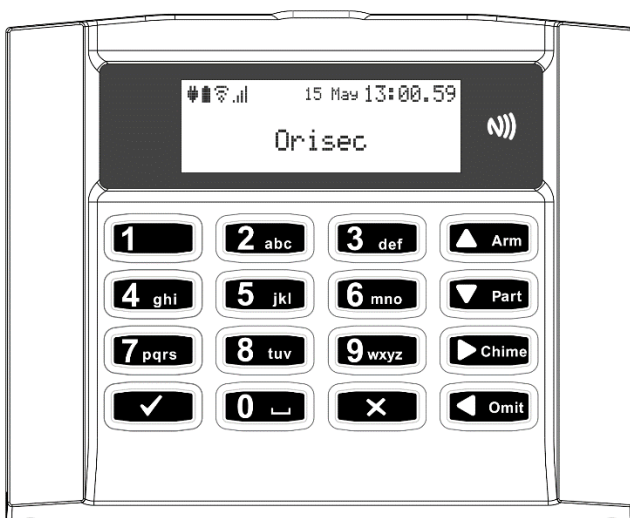




RK-400-LCD & RK-450-LCD

Keypad Installation Manual



Designed and Manufactured
in the United Kingdom

www.orisec.co.uk

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1. Introduction

This manual describes how to install the following Orisec keypads:

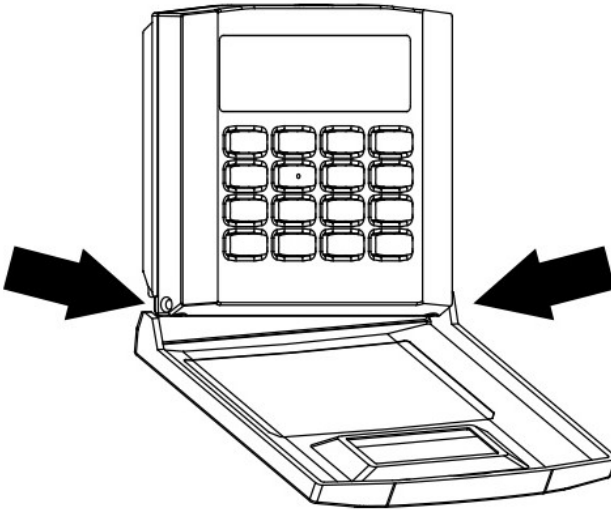
Orisec RK-400-LCD

Orisec RK-450-LCD

For detailed programming instructions please see the control panel installation manual.

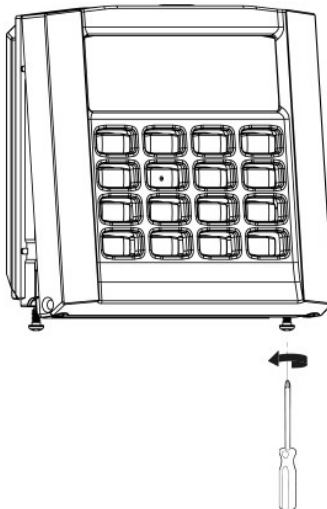
2. How to Open the Keypad

Pull down the keypad flap and pull gently at the hinge to remove:

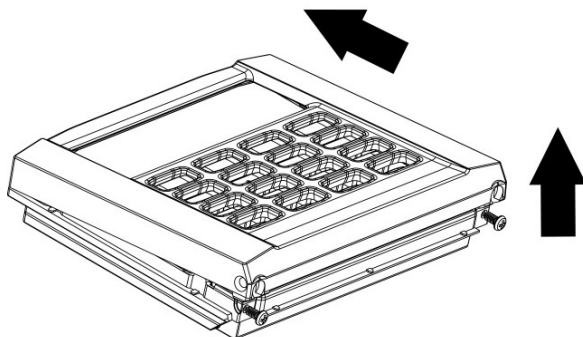


NOTE: Removal of the flap is optional for installation

Partially loosen both screws on the underside of the Keypad:

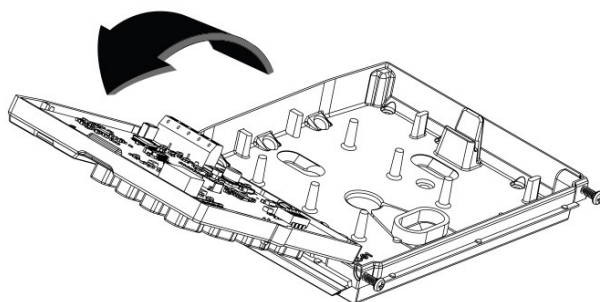
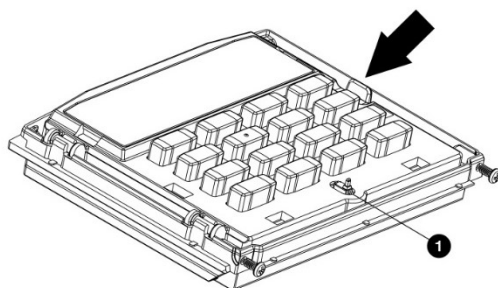


Lift the front cover at the bottom of the keypad then slide up to remove:



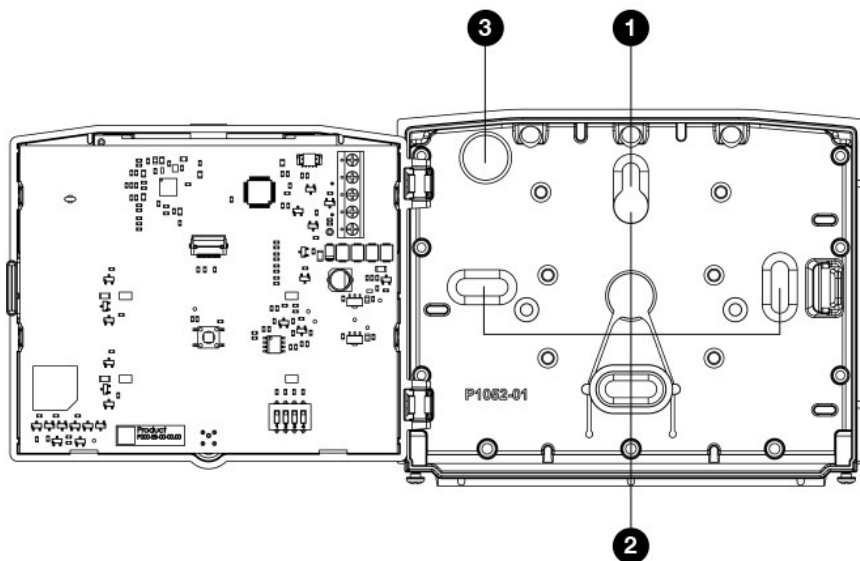
3. How to Remove the PCB

The PCB is retained on a hinge, so to open, simply pull the clip on the right-hand side and swing open:



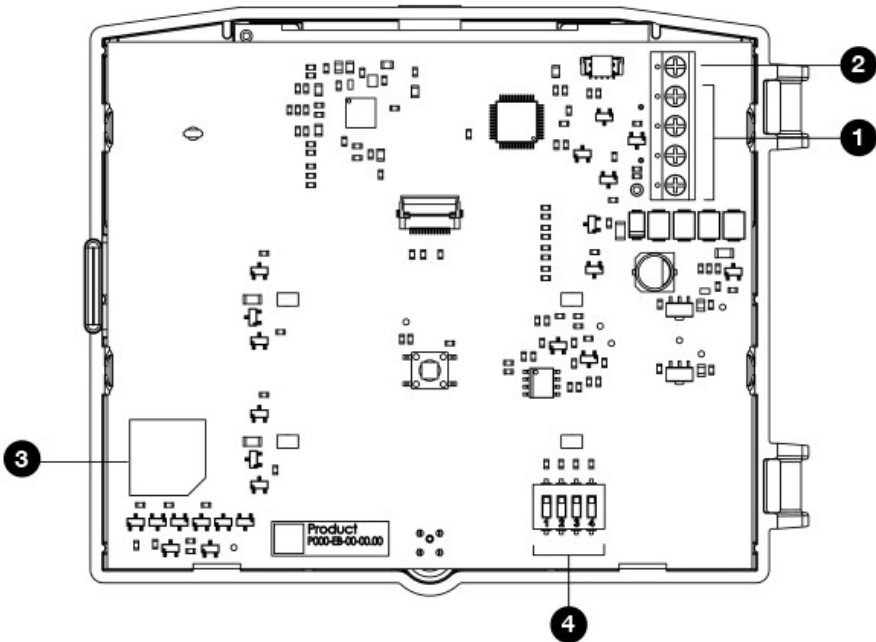
1. Tamper Switch

4. Fixing the Keypad to Wall



1. Keyhole
2. Screw mounting holes
3. Cable entry hole

5. PCB Layout



1. Network Connections

The Orisec Keypads network connection.

2. Zone Input or Output Terminal 1

This terminal can be independently programmed from the main control panel to be a detection device OR output. If using the terminal as zone input the zone can be independently programmed for type, wiring, areas and options. If using the terminal as an output (rated at 100ma) it can be independently programmed.

3. Piezo Sounder

The piezo sounder generates low level alarm, key press, and warning tones. Each type of tone can be enabled or disabled for each Keypad.

4. Address DIP Switch

Each keypad must be assigned a different address using the Address DIP switch. Set the DIP switch to the required position. If addressed as 0, the address is defined by software utilising the Keypad programming menu.



Address 0
(Software address)



Address 1



Address 2



Address 3



Address 4



Address 5



Address 6



Address 7



Address 8



Address 9



Address 10

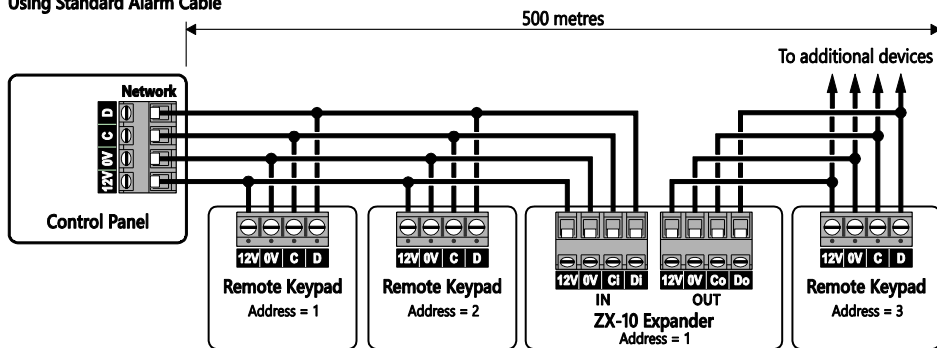
6. Wiring

Network Connections

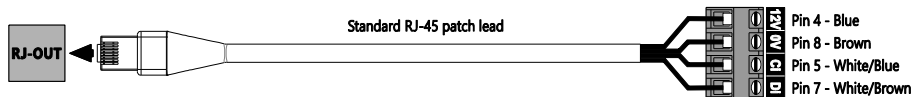
Ensure the system is powered down and the battery is disconnected before wiring the Keypad.

The keypads can be networked in a star or daisy chain pattern, or a combination of the two. They can also be connected to the RJ45 connections on both the control panel and on expanders.

Using Standard Alarm Cable



Using RJ-45 Connections



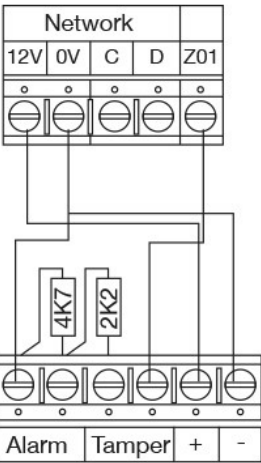
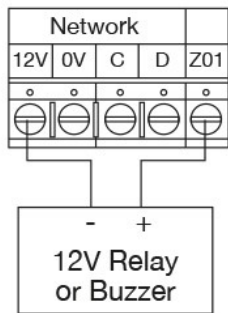
Wiring can be done using any 4-core alarm cables, however it is recommended that 6-core or higher is used to double up the power if required.

Zone and Output Connections

The keypads have 1 input/output terminal. It can be used as required and the operation is defined via the control panel's programming menus. Example of wiring types:

Output Connections

Remote Keypad



Powered Detector

7. Setup Menu

To enter the Setup Menu, press both the '✓' key and 'Omit' key and hold for 3 seconds. Use the 'up' and 'down' arrow keys to select the option, then use the 'left' and 'right' arrow keys to change the value of the selected option.



Address

Use this option to set the network address, all dipswitches must be in the off position to do this. The highlighted number shows the current address, the numbers that are displayed in the smaller font are Keypads that are already on the system.

Contrast

Use this option to set the contrast on the LCD display.

B/ Adjust:

Use this option to set the LCD backlight brightness.

Dim Level

The keypad screen will dim when left idle. Dim Level adjusts the light level of the keypad screen when in this mode.

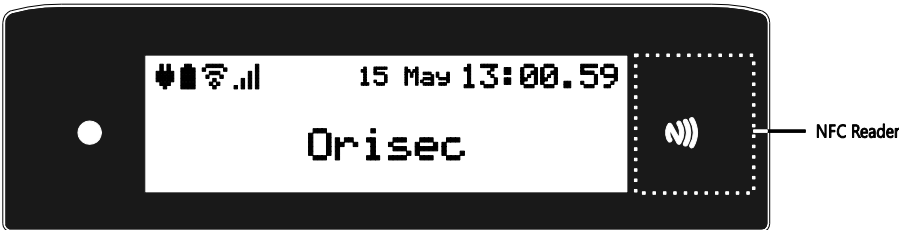
Exit Menu

Press the 'Omit' key for 1 second or scroll down to select, then press '✓' to exit the Setup Menu.

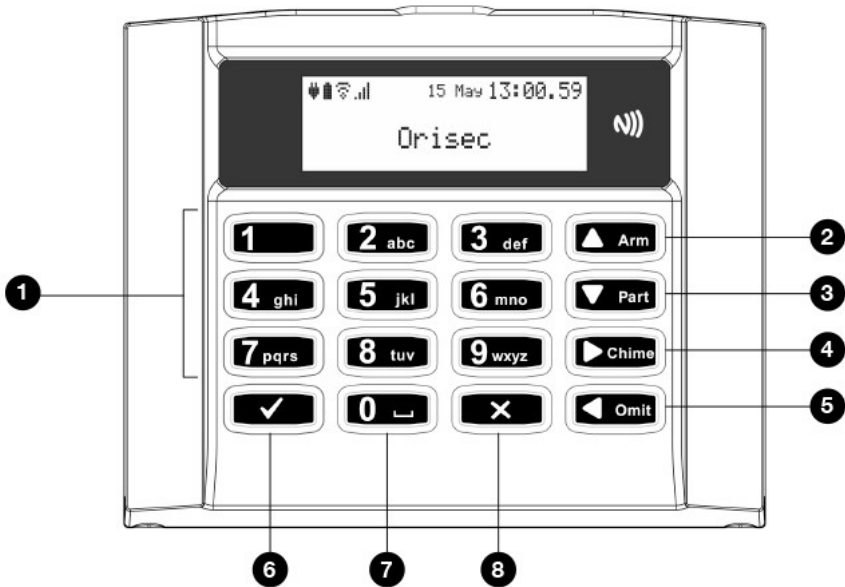
8. NFC Reader

The NFC reader allows NFC devices to be used for arming and disarming of the system. These can be assigned to users in the User Codes section of the Programming Menu.

The NFC device (TAG) should be presented to the right-hand side of the keypad screen:



9. Keypad Button Operation



1. **Numeric** –Used for entering codes
2. **Arm** – Can be used for a quick full arm and to navigate upwards in the menu
3. **Part** - Can be used for a quick part arm and to navigate down in the menu
4. **Chime** – Can be used to enable/disable chime and can be used to enter menu
5. **Omit** – Can be used to omit zones and if held for 1 second can work to go 'back' in a menu
6. **✓** - Used to accept changes and enter menu
7. **0** – If held for 1 second can be used to toggle options and outputs
8. **X** – Used to cancel a selection. Press and hold for 1 second to delete a selection.

10. Specifications

Electrical

Input Voltage:	10 – 15Vdc
Current Consumption:	Idle: 35mA; Backlit: 60mA
Network:	4-Wire standard 7/0.2mm alarm cable up to 500m
Zone Inputs & Output:	1
Proximity Reader:	NFC NTAG203
LCD Display:	128 x 32 pixels, Blue STN

Environmental

Operating Temperature:	-10°C to +55°C
Storage Temperature:	-20°C to +60°C
Max. Humidity:	95% non-condensing
EMC:	Residential, Commercial, Light Industrial & Industrial

Physical

Dimensions:	RK-400-LCD & RK-450-LCD: 153mm x 120mm x 30mm
Housing:	3mm Acrylonitrile Styrene Acrylate (ASA)
Packed Weight:	400g



11. Standards

Security

PD 6662:2017
EN 50131-1:2006+A1:2009
EN 50131-3:2009
Grade 2, Class II

EMC

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and EN 50130-4:2011+A1:2014

EMC Environment: Residential / Commercial / Light Industrial / Industrial



CE: You can view the product EC Declaration of Conformity here:
www.orisec.co.uk/compliance



WEEE Directive: 2012/19/EU Compliant: This symbol indicates that according to local laws and regulations, this product should not be disposed of as municipal/household waste. Instead, it should be disposed of at the appropriate collection points designated for the recycling of electrical and electronic equipment, or returned to Orisec upon purchase of new replacement products. This will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

RoHS

RoHS Directive: 2011/65/EU Compliant:

Orisec declares that this product complies with and conforms to RoHS legislation that it does not contain more than the agreed levels of: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr6+), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE)

Manufacturer: Orisec Ltd, 1 St Crispin Way, Haslingden, Lancashire. BB4 4PW. United Kingdom.

Warranty

The Orisec RK-400-LCD and Orisec RK-450-LCD are guaranteed against defects in material or faulty workmanship for a period of 2 years from the date of purchase.

Disclaimer: Orisec will not accept any liability based on a claim that the Orisec RK-400-LCD or Orisec RK-450-LCD failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system.

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