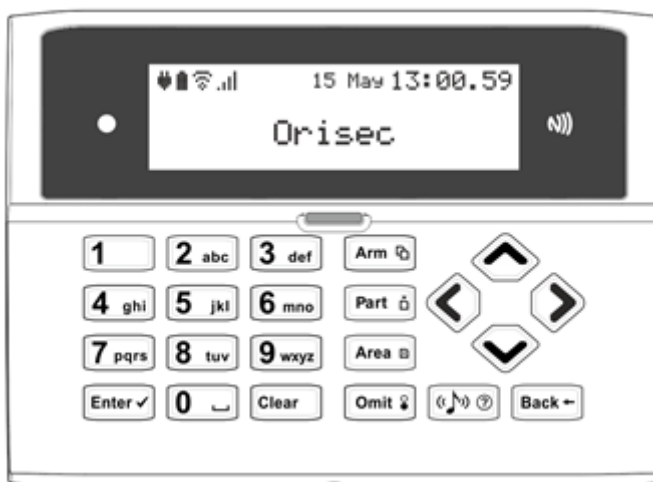




W-RK-700-LCD-PSU & W-RK-700-LCD-BAT

Wireless 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 W-RK-700 wireless keypads

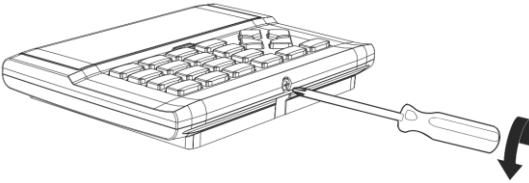
The W-RK-700 wireless keypads may be used for all user functions such as programming and arming/disarming. The W-RK-700 wireless keypads can be used to fully program a system, but Orisec recommend using either a wired keypad or UDL software for large systems due to wireless speed. For detailed programming instructions please see the control panel installation manual.

Choosing a location

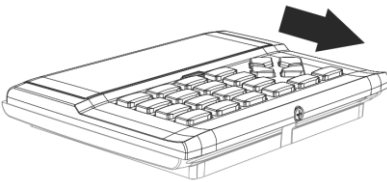
As with all wireless devices it is important to choose a suitable location away from metal objects, structures or other RF systems which may cause interference.

RK-700-LCD-PSU keypad

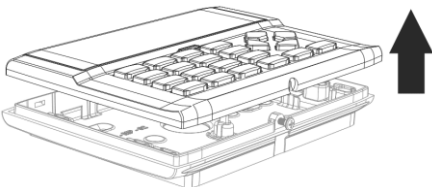
Partially loosen the screw on the underside of the Keypad:



Slide the cover down:

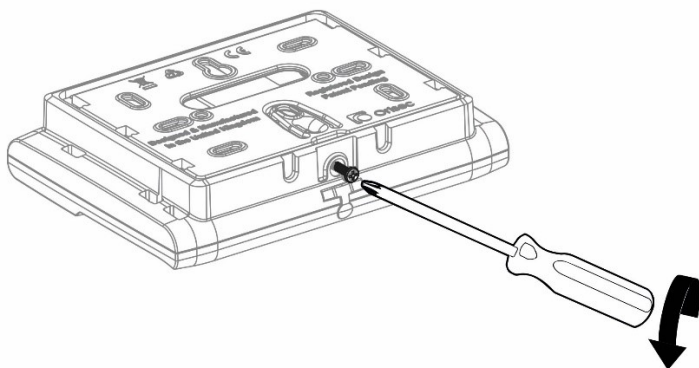


Lift the cover off the back, noting that the PCB is attached to front cover:

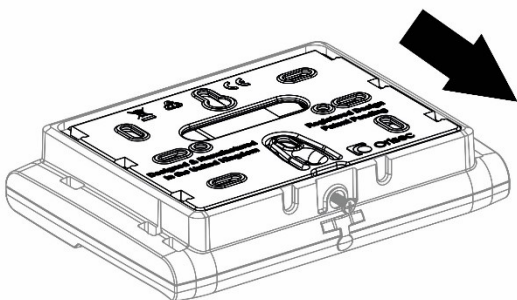


W-RK-700-LCD-BAT keypad

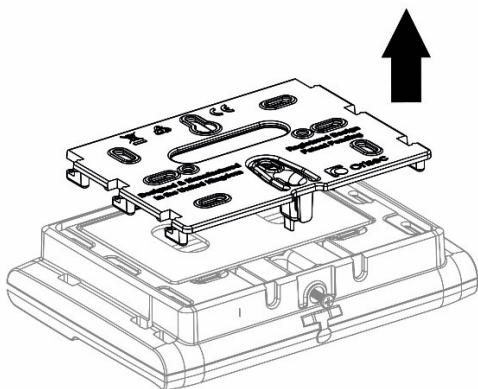
Partially loosen the wall plate locking screw on the underside of the Keypad:



Slide the wall plate down:

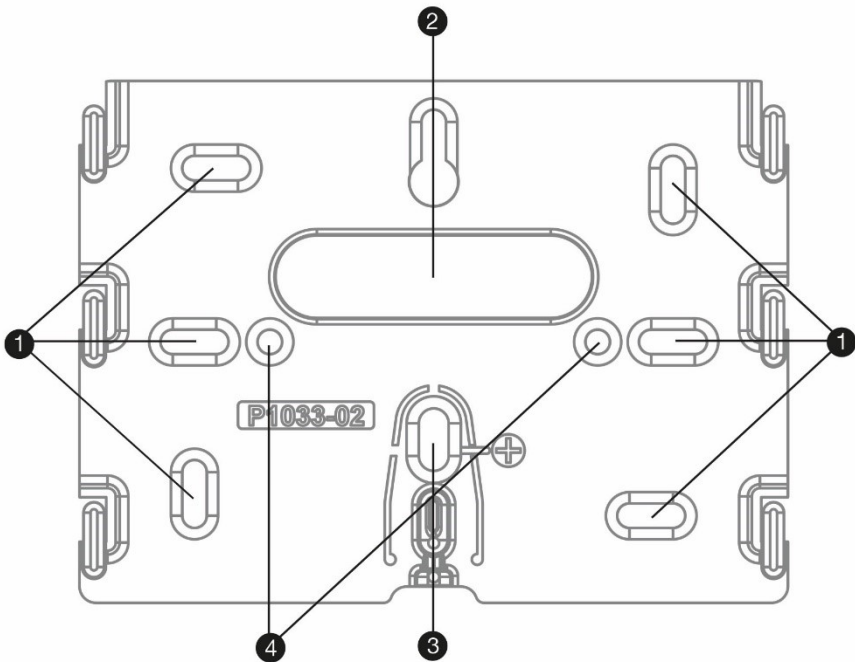


Remove the wall plate:



2. Fixing the Keypad to wall

W-RK-700-LCD-BAT - Low Profile Back Plate Mount



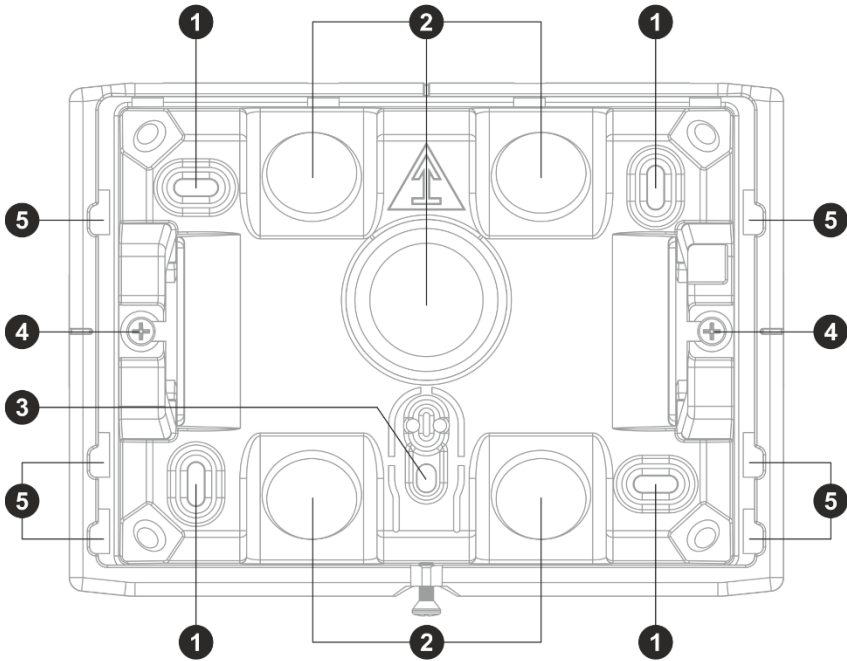
1. Screw mounting holes
2. Optional cable entry hole
3. Breakaway rear tamper
4. Single gang back-box mounting holes

NOTE: Ensure there is at least 2cm clearance at each side of the back plate mount to allow space for the keypad.

Rear Tamper Break out Section

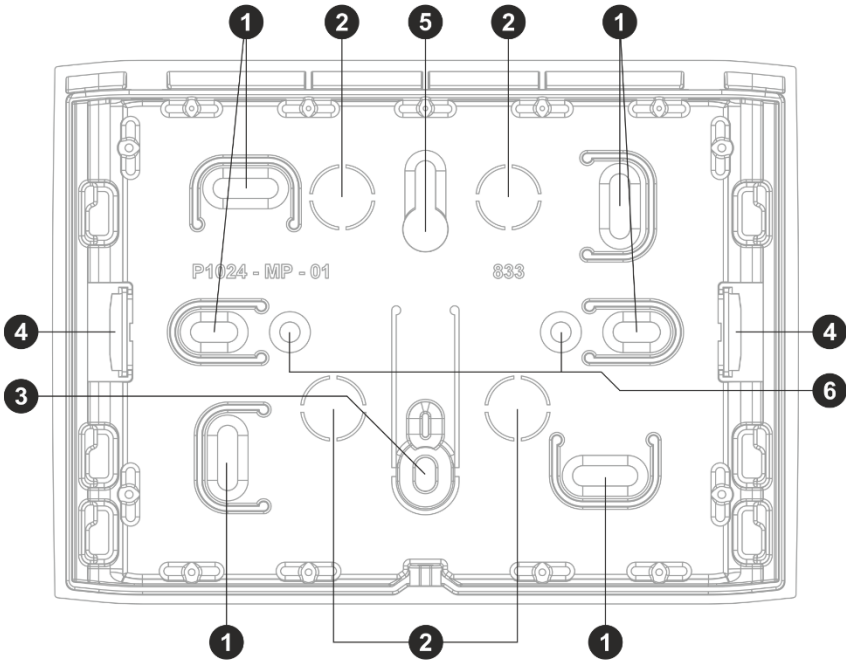
Insert a screw into the rear tamper break out section (3). If the keypad back plate is forced off the wall, the break out section will stay fixed, and a tamper activation will occur. This is required for EN-50131 wireless Grade 2 installations.

RK-700-LCD-PSU - Flush Mount



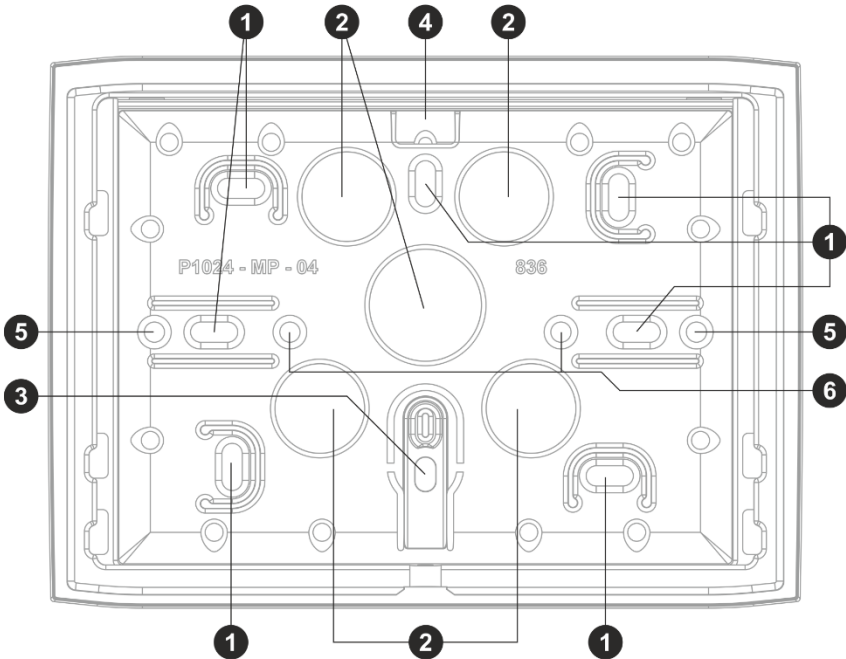
1. Screw mounting holes
2. Cable entry holes
3. Breakaway rear tamper
4. Screw clamps
5. Front cover sliding clip locking holes. Keep clear from debris to ensure the keypad can easily hook onto the flush mount.

RK-700-LCD-PSU - Low Profile Mount



1. Screw mounting holes
2. Knock-out cable entry holes
3. Breakaway rear tamper
4. Removable tabs for cable trunking
5. Keyhole
6. Single gang back-box mounting holes

RK-700-LCD-PSU - Surface Mount

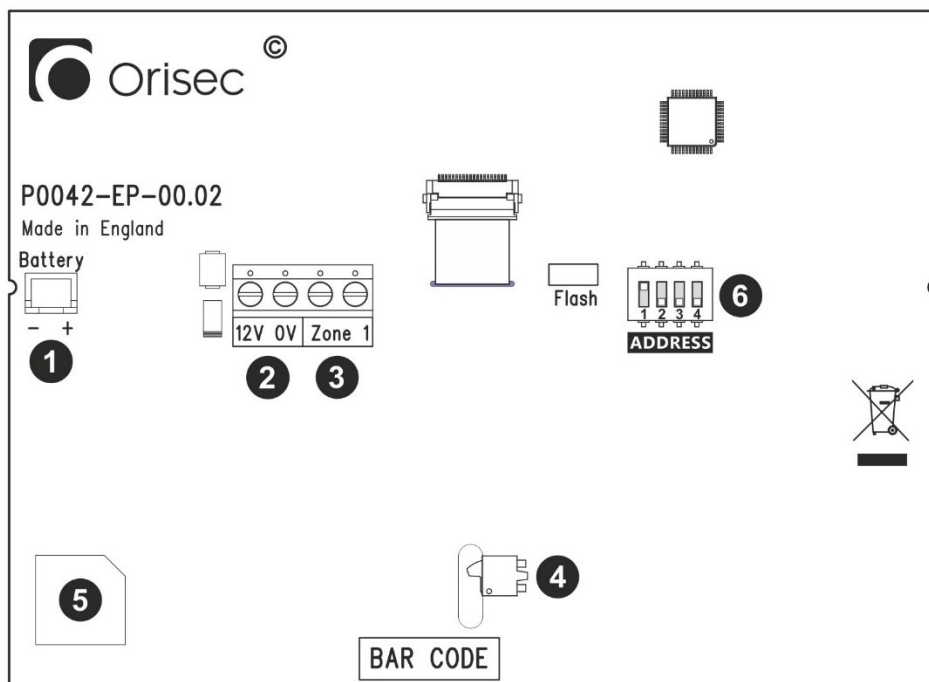


1. Screw mounting holes
2. Cable entry holes
3. Breakaway rear tamper
4. Knock-out cable entry hole
5. Double gang back-box mounting holes
6. Single gang back-box mounting holes

Rear Tamper Break out Section

Insert a screw into the rear tamper break out section (3). If the keypad casing is forced off the wall, the break out section will stay fixed, and a tamper activation will occur. This is required for EN-50131 wireless Grade 2 installations.

3. PCB Layout



1. Battery Connector

Only for use on the W-RK-700-LCD-BAT: The battery connector is used to supply power to the keypad from the batteries. 4, 6 or 8 AA 1.5V can be used.

2. PSU Connections

Both Orisec W-RK-700-LCD keypads can be locally powered. If the Orisec W-RK-700-LCD is locally powered, the keypad will always be awake and will automatically act as a repeater.

3. Zone Input

These zone input terminals can be used to expand the control panel by 1 additional zone. The zone input is independently programmed for type, wiring, areas and options.

4. Tamper Switch

The patented combined lid, screw and wall tamper switch will signal a tamper condition if the front cover locking bolt is undone, if the front cover is removed or if the keypad is removed from the mounting surface.

5. 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.

6. Address DIP Switch

Each keypad must be assigned a unique address using the Address DIP switch. Set the DIP switch to the required position.



Address 1



Address 2



Address 3



Address 4



Address 5



Address 6



Address 7



Address 8



Address 9



Address 10

4. Wireless Setup

The control panel should be placed in 'learn' mode in order to enrol the wireless keypad. This can be achieved in two ways:

- A. Using an engineer's keypad or existing system keypad, OR
- B. Using the 'SELECT' button on the control panel PCB.

A. Entering 'Learn Mode' using an engineer's keypad or existing keypad

On the existing keypad:

1. Enter engineering mode
2. Select 'setup wireless zones'
3. Highlight required zone
4. Scroll down to 'Learn'

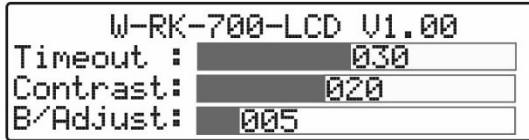
B. Entering 'Learn Mode' using the 'SELECT' button on the control panel PCB

1. Press and hold the 'SELECT' button' for 2 seconds to enter the menu
2. Scroll through the menu options, until the 7-segment display reads 'Ld'
3. Press and hold the 'SELECT' button' for 2 seconds to enter 'Learn Mode'

NOTE: For installations with multiple wireless keypads it is recommended that they are **not** assigned to consecutive zones.

Simple Enrolment:

1. Press the **Enter✓** key on the wireless keypad to wake the keypad up
2. To enter the Setup Menu, press both the **Back←** key and **Enter✓** key and hold for 3 seconds.
3. Use the  and  keys to navigate to the 'learn' option, then press **Enter✓**



Full menu available:

Time Out

This option is only relevant if powering the W-RK-700-LCD-BAT via the battery pack. The time out controls the delay between a button press and the keypad going sleep.

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.

Learn

The W-RK-700-LCD can be learnt from this menu by pressing 'Enter' on 'Learn'

Exit Menu

Press and hold the 'Back' key or scroll down to select, then press 'Enter' to exit the Setup Menu.

NOTE: For tamper monitoring on the wireless keypad the zone type must be programmed as: 'W-KP/BELL/TR

On the keypad:

1. Enter engineering mode
2. Select "Programming menu"
3. Select "Zone programming"
4. Scroll down to the wireless keypad zone
5. Select Zone Type 32 "W-KP/Bell/TR"

5. 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 Setup section of the Programming Menu.

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

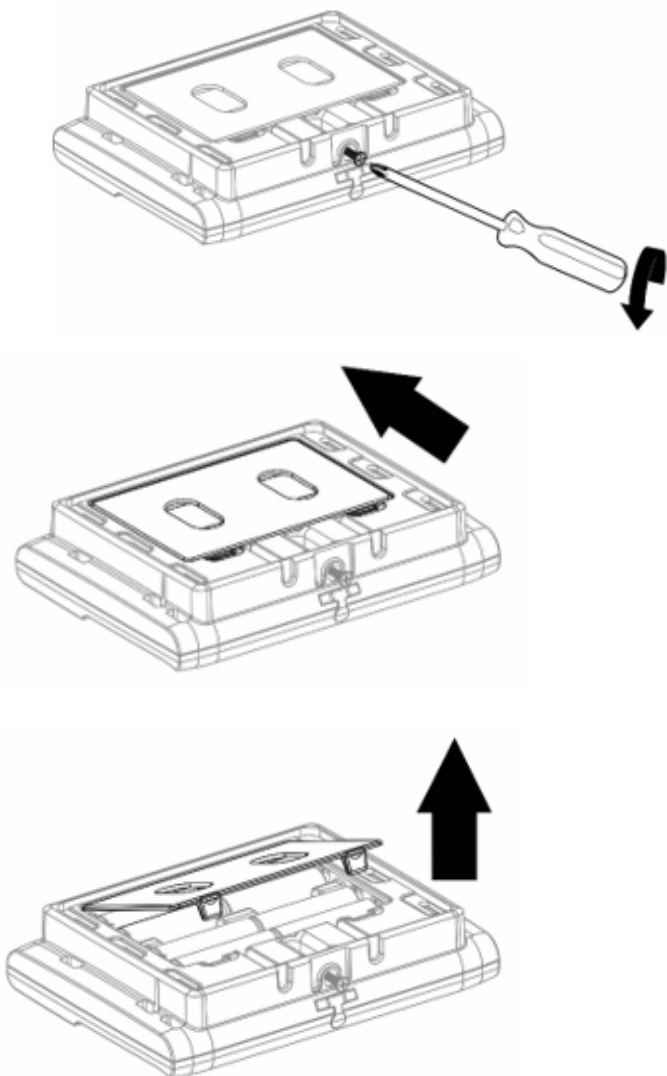


NOTE: On the W-RK-700-LCD-BAT users must press the 'Enter' key prior to presenting the NFC device (TAG) to 'wake up' the keypad.

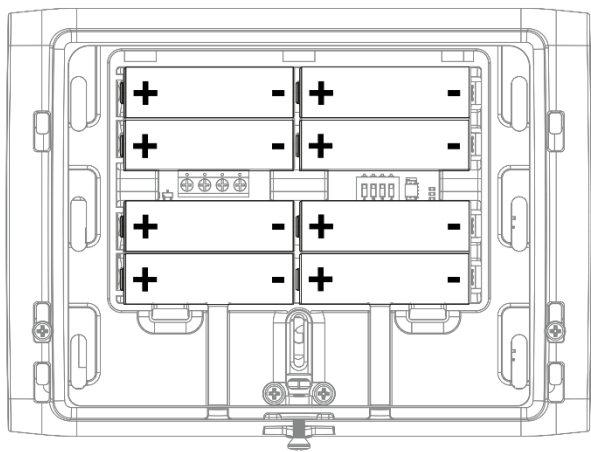
6. W-RK-700-LCD-BAT

The W-RK-700-LCD-BAT is provided with 8 x 1.5V AA alkaline batteries.

Replacing the batteries:



Replace with 8 x 1.5V AA alkaline batteries as shown below:



7. Specifications

Electrical

Input Voltage:	10 – 15Vdc
Battery (W-RK-700-LCD-BAT)	8 x 1.5V AA Alkaline
Current Consumption Max:	60mA (when powered with external 12V PSU)
Zone Input:	1 fully programmable
Proximity Reader:	NFC NTAG203
LCD Display:	128 x 32 pixels, Blue STN
Average Battery Life (W-RK-700-LCD-BAT)	>2 years
Cut Off Timer:	Programmable (Default 30 seconds)

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-700-LCD-PSU (Flush): 166mm x 121mm x 11mm RK-700-LCD-PSU (Low Profile): 166mm x 121mm x 27mm RK-700-LCD-PSU (Surface): 166mm x 121mm x 27mm W-RK-700-LCD-BAT: 166mm x 122mm x 36mm
Housing:	3mm Acrylonitrile Styrene Acrylate (ASA)
Packed Weight:	W-RK-700-LCD-BAT: 680g; W-RK-700-LCD-PSU: 400g



8. Standards

Security

PD 6662:2017

EN 50131-1:2006+A1:2009

EN 50131-3:2009

EN50131-5-3:2017

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

Conforms to RE Directive 2014/53/EU

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-700-LCD-PSU and Orisec W-RK-700-LCD-BAT are guaranteed against defects in material or faulty workmanship for a period of 2 years from the date of purchase, excluding batteries.

Disclaimer: Orisec will not accept any liability based on a claim that the Orisec RK-700-LCD-PSU or Orisec W-RK-700-LCD-BAT failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system

Notes

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