

Wireless Key fob, Key pad & Receiver Range

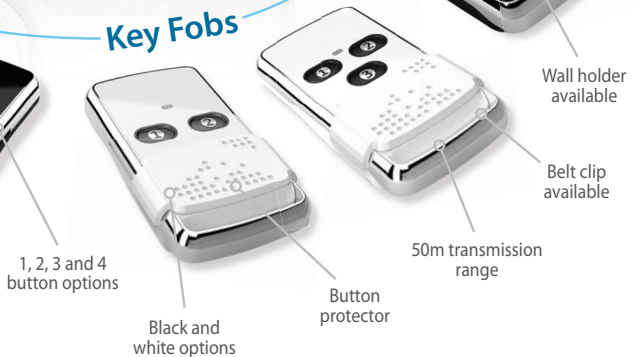
4Ch Wireless Receiver



Wireless Access Key Pad



Key Fobs



• Instruction Manual •

Covering the WIR300, WIR400 and WIR500 series

Introduction

The Zendit range of wireless key fobs & key pads is a gift to any CCTV, alarm or access control engineer thanks to its versatility and wide range of configurations.

Ideal for opening gates, switching lights on, sounding audio devices such as the VoiceOff, this great value range adds lots of functionality to a security or automation system without a hefty price tag.

The key fobs can be used as a standard fob for up to four devices or even wall-mounted in a bracket to serve as a static panic button or controller. Handy belt clips are also available to carry the fobs on your person within easy reach, again as either a panic button or for a member of staff to gain quick control or access of other equipment.

The entire range includes single or multi (2, 3 or 4) button key fobs in either a white or black finish with a selection of key-rings and clips, compact wall mount push button key pads and 1 or 4 channel receivers with control buttons too.

Dual channel key pads are a useful addition to the range allowing a fixed access pad to activate the opening of a door or gate without the risk of personnel losing or forgetting their keys.

Key Fobs	4
Information / Specification	4
Pairing Key fobs & Receivers	4
Self Learning	5
Replacing A Battery	5
Useful Accessories	5
Key Pads	6
Information / Specification	6
Installation	6
Pairing Key fobs & Receivers	7
Operation	7
Password Management	8
Battery Maintenance	9
1Ch Receiver	10
Information / Specification	10
Installation	10
Connections & Powering	10
Connecting Trigger Devices	11
Latching Modes	11
4Ch Receiver	12
Information / Specification	12
Installation	12
Connections & Powering	13
Connecting Trigger Devices	13
Latching Modes	15
Basic Operation	15

Wireless Key Fobs



The Zendit key fobs offer an effective, low cost method for wireless control of up to 4 electronic devices.

1, 2, 3 and 4 channel fobs are available in black and white. The small compact fobs have a working range of up to 50m and a handy sliding button guard prevents accidental activation.

This section explains the simple steps required for pairing key fobs to receivers, learning commands, replacing batteries and operation.

Key Fob Part Codes:

- 1ch - WIR301B (Black) WIR301W (White)
- 2ch - WIR302B (Black) WIR302W (White)
- 3ch - WIR303B (Black) WIR303W (White)
- 4ch - WIR304B (Black) WIR304W (White)

Specification

Frequency	Range	Battery	Dimensions
433.92MHz	Up to 50m	3V CR2032	65 x 37 x 14.5mm

Pairing Key fobs & Receivers

It's really easy to pair a key fob with a receiver, just follow these 2 simple steps:

Step 1

Press the **Learn** button on the receiver. The LED light on the front of the unit will turn red.

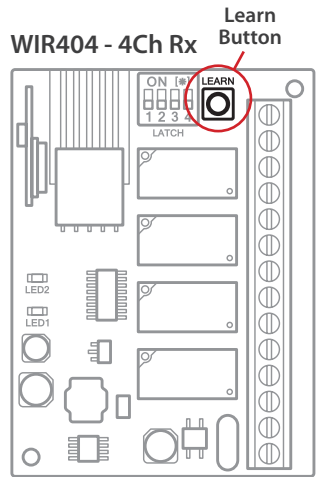
1Ch WIR401: This is found on the side of the unit.

4Ch WIR404: This is positioned at the top of the PCB. To gain access you will first need to remove the cover by unscrewing the small locking screws on either side of the unit. The front panel can then slide up and off.

Step 2

1Ch WIR401: Press the button you wish to program to the receiver **Twice**. The receiver's LED will flash and then turn off. This can be button 1, 2, 3 or 4 on a multi channel fob.

4Ch WIR404: Press **Button 1** on the key fob **Twice**. The LED light on the receiver will flash and then turn off. When pairing a multi channel key fob all other buttons are learnt automatically. When using a multi channel key fob button 1 activates relay 1, button 2 activates relay 2 and so on.



Self Learning

The Self Learning function (On the 2, 3 & 4 channel key fobs) allows you to copy commands from one key fob to another. Self Learning is an easy way to set up multiple key fobs or add new key fobs without having to go back to the receiver.

To program a key fob using Self Learning follow the 3 steps below:

Step 1

On the **existing** key fob press **Buttons 1 and 2** together.



Step 2

Now press **Button 2**.



Step 3

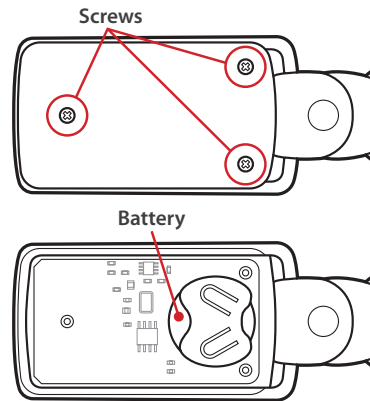
Now on the **New** key fob press **Button 1** twice.



Replacing A Battery

The key fobs are powered by a **CR2032 3V DC battery** which should last for up to two years of general use. Don't worry, when the battery does run out you won't need to pair the key fob again, just replace the battery.

To replace the battery you will first need to remove the three small screws from the back of the key fob (shown right). Remove the back of the housing to reveal the battery. Slide the battery out of its holding slot and replace with a new one ensuring the new battery is installed with the positive side facing up.



Useful Accessories

Wall mount brackets allow key fobs to serve as a static panic button or controller.

Handy belt clips are also available to carry the fobs on your person within easy reach, again as either a panic button or for quick control or access of other equipment.



Order Codes:

Wall Mount Bracket Black: [WIR310B](#)

Wall Mount Bracket White: [WIR310W](#)

Belt Clip: [WIR311](#)

Wireless Key Pads



Our dual channel key pads can be used to create a fixed access pad ideal for opening doors and gates eliminating the risk of losing or forgetting keys.

Relays are activated by entering a numeric password rather than the press of a single button for a secure wireless solution.

This section explains the simple steps required for installation, pairing key pads to receivers, operation, password management and battery replacement.

Specification

Key Pad Part Codes:
Black - WIR305B White - WIR305W

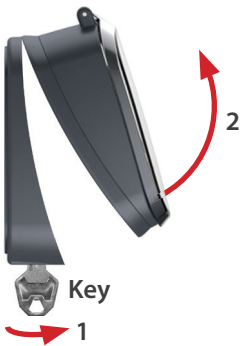
Frequency	Range	Battery	Dimensions
433.92MHz	Up to 100m	3V CR2450	93 x 73 x 43mm

Installation

As an anti-tamper measure key pads can only be installed and removed using one of the keys supplied:

Step 1

Insert the key into the lock on the underside of the key pad. Turn the key **clockwise** until it clicks and then lift the front of the key pad off the mounting plate.



Step 2

There are five mounting indented knock-out holes for securing the key pad. Either use a hammer and punch or drill out the holes required. You can choose to use **3 screws** in holes **2, 4 & 5** or **4 screws** in holes **1, 3, 4 & 5**.

Step 3

Mark the screw positions on the mounting surface, drill the holes and plug with appropriate fixings.



Step 4

Screw through the holes in the key pad's base and into the plugs.

Pairing Key pads & Receivers

It's really easy to pair a key fob with a receiver, just follow these 2 simple steps:

Step 1

Press the **Learn** button on the receiver. The LED light will turn red.

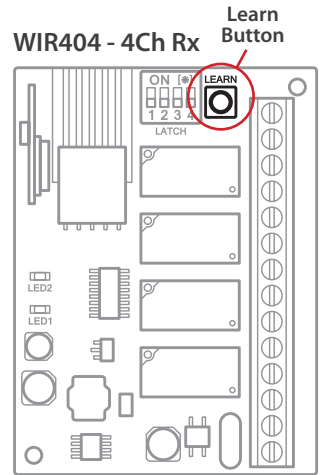
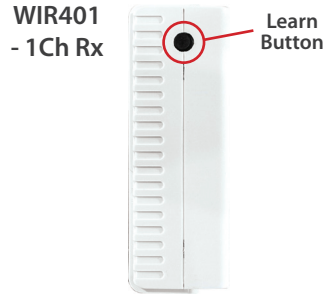
For the 1Ch WIR401 this is found on the side of the unit.

On the 4Ch WIR404 it is positioned at the top of the PCB. To gain access you will first need to remove the cover by unscrewing the small locking screws on either side of the unit. The front panel can then slide up and off.

Step 2

Enter the password for channel 1 (**Default 000000 / 6 Zeros**) and then press **Button A** twice on the key pad. The LED light on the receiver will flash and then turn off.

Note: For changing or resetting passwords see the **Password Management** section on page 8.



Operation

To trigger **channel 1** simply enter your password and then press **Button A**. The top left LED will flash when successful.

Likewise, to trigger **channel 2** enter your password and then press **Button B**. The top right LED will flash when successful.

Note: After entering your password you have **four seconds** to press either Button A or B. If you press Button A or B after 4 seconds or enter an incorrect password no signal will be transmitted and you will have to start again.

For extra security you can set **different passwords** for channels 1 and 2 as explained on page 8.



WIR305W

Wireless Key Pads

Password Management

Zendit password controlled key pads provide extra security as they restrict access and control to chosen personnel. You can even set different passwords for each channel.

The section below has simple steps on changing and resetting passwords.

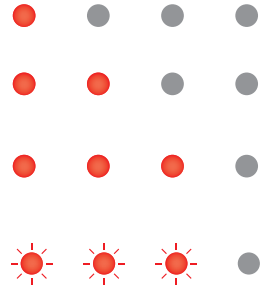


Default Password

The default password for both channels is **000000**.

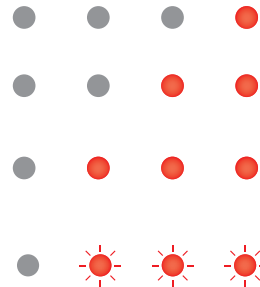
Changing The Password For Channel 1

- Hold down **Button A** until the top left LED lights up.
- Enter **current password** e.g. 000000 and press **Button A**. The second LED will then light up.
- Enter your **new password** e.g. 123456 and press **Button A**. The third LED will then light up.
- Re-enter your **new password** e.g. 123456 and press **Button A**. The first three LEDs will then flash to confirm your new password has been set.



Changing The Password For Channel 2

- Hold down **Button B** until the top right LED lights up.
- Enter **current password** e.g. 000000 and press **Button B**. The third LED will then light up.
- Enter your **new password** e.g. 123456 and press **Button B**. The second LED will then light up.
- Re-enter your **new password** e.g. 123456 and press **Button B**. The last three LEDs will then flash to confirm your new password has been set.



Resetting The Password

- Insert the key into the lock on the underside of the key pad. Turn the key **clockwise** until it clicks and then lift the front of the key pad off the mounting plate.
- Press and hold any numeric button so that the second LED lights up.
- Keep holding the button, with the other hand turn the battery cover clockwise and remove. Re-insert and turn anti-clockwise to lock in place. All four LEDs will then light and go out one by one from the right. The password will now be reset to default **000000**.



Battery Maintenance

The key pads are powered by a **CR2450 3V DC battery** which should last for up to two years of general use. Don't worry, when the battery does run out you won't need to pair the key pad again, just replace the battery.

Note: To replace the battery you will need to use one of the keys supplied with the key pad.

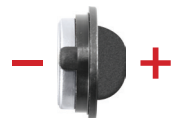
Low Battery Indicator

If the battery voltage is lower than 2.4V the **two centre LEDs** will light together when pressing any numeric button as a reminder to the user that the battery requires replacement.



Replacing A Battery

- Insert the key into the lock on the underside of the key pad. Turn the key **clockwise** until it clicks and then lift the front of the key pad off the mounting plate.
- Turn the battery cover **clockwise** and remove.
- Slide the battery out of the holding clips and replace with a new battery ensuring the negative side of the battery is left exposed.
- Re-insert and turn **anti-clockwise** to lock in place.



1Ch Wireless Receiver



1Ch Receiver Part Code: WIR401

The compact 1Ch receiver is perfect for smaller systems. For extra security the WIR401 uses rolling codes which change on every use, this means they are never duplicated.

Specification

Feature	Specification
Working Voltage	12V DC 30mA
Temperature Range	-20°C ~ +60°C
Frequency	433.92MHz
Max Stored Transmitters	30
Relay Load Capacity	1A 30V DC
Weight	36g
Dimensions	58 x 34 x 20mm

Installation

To mount the lightweight receiver we recommend a simple double-sided adhesive foam pad.

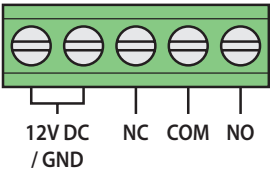
Connections & Powering

All connections are made using the screw terminals. Just remove the front faceplate exposes the screw terminals.

The first two from the left are for connecting the power. These are **not polarity sensitive** so the 12V DC and the Ground (GND) can be connected to either terminal. The receiver requires 12V DC power and **at least 30mA**.

The last three terminals are for the relay. From left to right they are Normally Closed (NC), Common (COM) and Normally Open (NO). **The relay is limited to 30V DC and rated at 1A.**

When connecting a trigger device to the receiver you will also need to set latching mode as explained opposite.



Resetting the Receiver

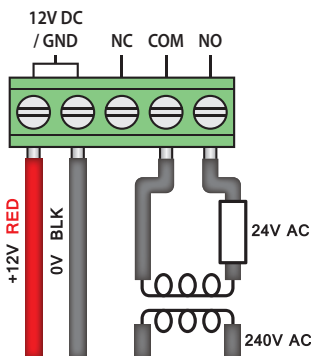
To reset the receiver and remove all key fobs simply hold the **Learn** button for 10 seconds until the LED turns red.

Connecting Trigger Devices

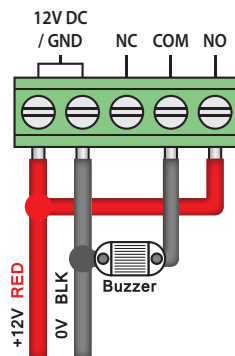
The WIR401 can be used to control various trigger devices. On the right are a few examples on how to wire the most common trigger devices.

When trigger devices are connected you will need to set the latching mode as explained below.

Electronic Door Release



Operating A 12V Buzzer



Latching Modes

The WIR401 has two Latching modes which control how long the relay is active, Latching and Non-Latching.

Latching acts as an **On/Off** switch. When the transmitter is pressed the relay will stay active until the transmitter is pressed again.

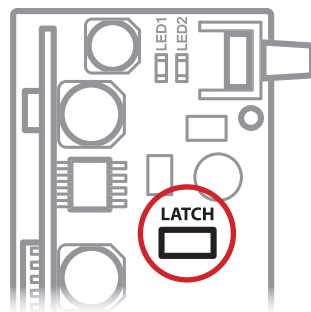
Non-Latching mimics the press of the transmitter and will only remain active **as long as the transmitter is pressed**. (Not compatible with WIR305 key pads)

The Latching mode is set by the position of the Latching Cap on the PCB. To position the Latching Cap you will need to open the receiver.

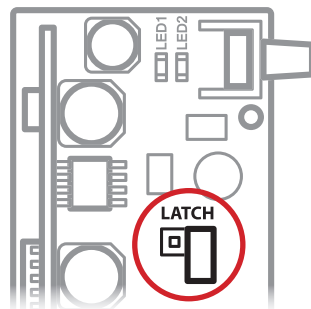
First remove the front faceplate then remove the front of the housing. There are 2 locking clips on either side of the housing. To release the clips you will need to push on the side of the front housing and lift at the same time.

Once removed you will see the black Latching Cap in the middle of the PCB. To set the receiver to Latching mode the Latching Cap needs to fit **across both pins** (right top). To set the receiver to Non-Latching mode you need to remove the Latching Cap and reconnect it to **one pin only** (right bottom).

Latching



Non-Latching



4Ch Wireless Receiver



4Ch Receiver Part Codes:
Black - WIR404B White - WIR404W

The 4Ch receiver has handy push buttons on the front of the unit so that the four relays can be activated without a key fob or key pad. For extra security the WIR404 uses rolling codes which change on every use this means they are never duplicated.

Specification

Feature	Specification
Working Voltage	12V DC 300mA
Temperature Range	-20°C ~ +60°C
Frequency	433.92MHz
Max Stored Transmitters	30
Relay Load Capacity	3A 30V DC
Weight	130g
Dimensions	135 x 78 x 30mm

Installation

The WIR404 receiver is designed to be wall mounted by following the steps below:

Step 1

Drill a hole into the mounting surface roughly where you want the top of the receiver and plug. Screw into the plug leaving the screw head around 3-5mm away from the surface.

Step 2

Slot the receiver on to the screw head (1) and then mark the position of the lower fixing hole (2).

Step 3

Remove the receiver, drill and plug the mark made in step 2.

Step 4

Slot the receiver back onto the first screw and then screw through the lower fixing hole into the new plug to secure.



Connections & Powering

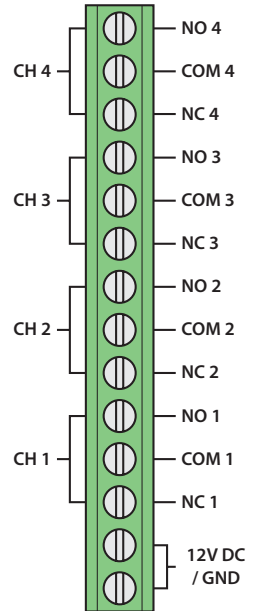
All connections to the WIR404 are made using the screw terminals on the PCB. To gain access you will first need to remove the cover by unscrewing the small locking screws on either side of the unit. The front panel can then slide up and off.

There are 14 screw terminals (right). The first two from the bottom are for connecting the power. These terminals are **not polarity sensitive** so the 12V DC and the Ground (GND) can be connected to either terminal. The receiver requires a 12V DC power source supplying **at least 300mA**.

The remaining 12 terminals are for the relays. There's 1 relay for each channel and 3 terminals per relay, Normally Closed (NC), Common (COM) and Normally Open (NO).

The relays are limited to 30V DC and rated at 3A each.

When connecting a trigger device to the receiver you will also need to set latching mode as explained on page 15.



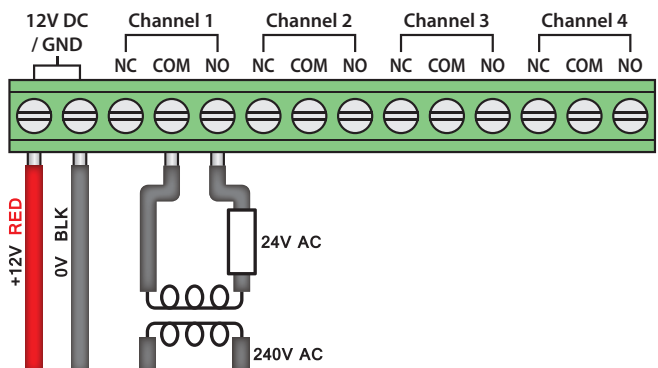
Connecting Trigger Devices

The WIR404 can be used to control various trigger devices. We have shown wiring diagrams for some of the most common trigger devices below and overleaf.

When trigger devices are connected you will need to set the latching mode as explained on page 15.

Electronic Door Release

A simple electronic door release allows you to unlock a door using a key fob or key pad.

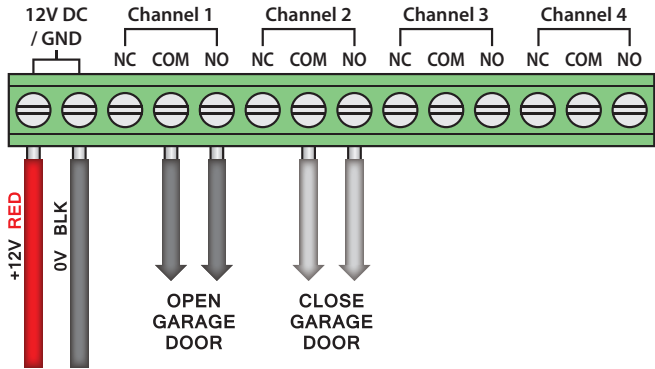


4Ch Wireless Receiver

Opening & Closing An Electric Garage Door

By using two relays you can wire the receiver to operate an electronic garage door.

One channel is used to open the door and a second channel is used to close the door.

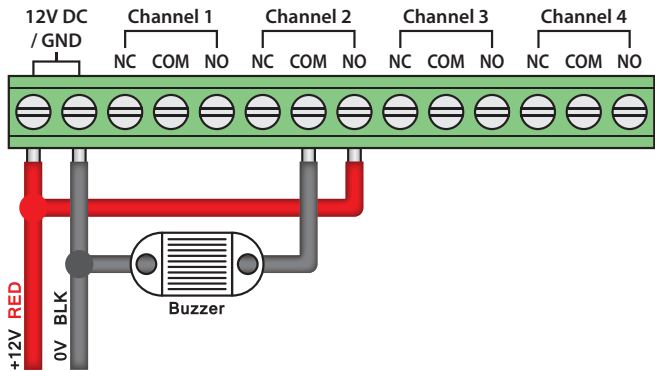


Operating A 12V Buzzer

A simple but effective use of a single channel is to operate a 12V buzzer.

An easy way to sound an audible warning at the push of a button.

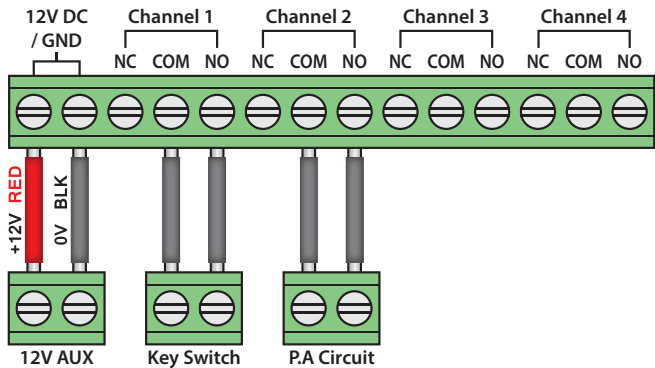
The example shows a buzzer connected to channel 2.



Operating An Alarm Panel

Two channels can be used to control an alarm panel.

In the example on the right channel 1 would be used to arm and disarm the alarm. Channel 2 would be used as a P.A. alarm.



4Ch Wireless Receiver

Latching Modes

The WIR404 has two Latching modes which control how long the relay is active, Latching and Non-Latching.

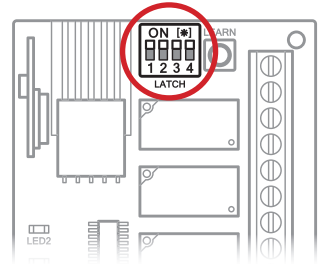
Latching acts as an **On/Off** switch. When the transmitter is pressed the relay will stay active until the transmitter is pressed again.

Non-Latching mimics the press of the transmitter and will only remain active **as long as the transmitter is pressed**. (Not compatible with WIR305 key pads)

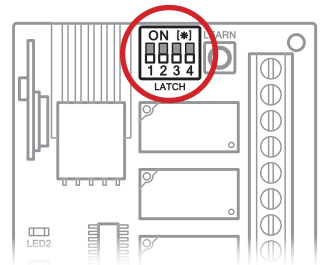
The Latching mode is set by the position of a dip switch on the PCB. To gain access you will first need to remove the cover by unscrewing the small locking screws on either side of the unit. The front panel can then slide up and off.

Once removed you will see four dip switches on the top of the PCB labelled 1 to 4. To set a channel to **Latching** flick the corresponding dip switch to **On**. To set a channel to **Non-Latching** flick the corresponding dip switch **towards the channel number**.

Latching

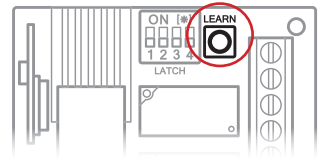


Non-Latching



Resetting the Receiver

To reset the receiver and remove all programmed key fobs simply press and hold the **Learn** button for 10 seconds until the LED turns red.



Basic Operation

The 4ch receiver has four numbered push buttons on the front of the unit so that the four relays can be controlled from the receiver itself.

This makes it a great option for central locations such as a reception desk or security office where an operator could control security barriers or an electronic door release to grant access to visitors.

Members of staff would gain access as and when they needed using key fob and key pad transmitters.



Date Installed:

For further support or to order additional products please contact your installer below:

Company Name:

Installer's Name:

Phone:

Email:

Website:

Address:

.....



For more information on the Zendit range of products visit www.Zendit.co or scan the QR code to the left.



Internal use only

All specifications are approximate. We reserve the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, Zendit cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



WEE/CG0783SS

This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated collection point as defined by your local council.