

ZG800 Connections

Select appropriate alarm and EOL resistors for the panel being used

If second zone is required:

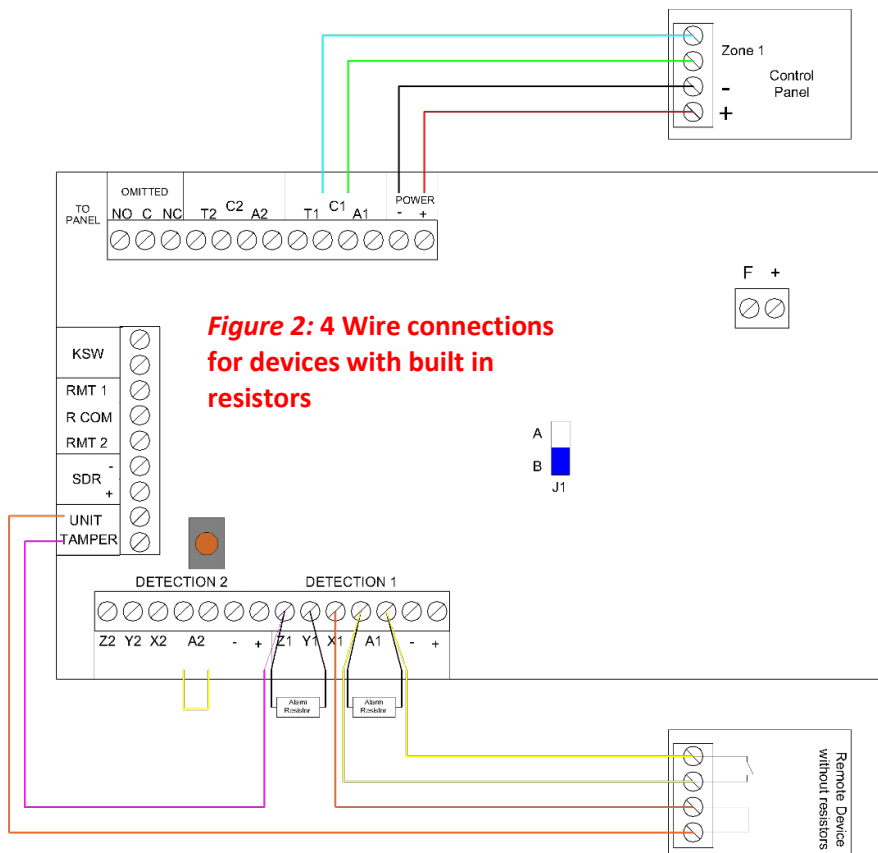
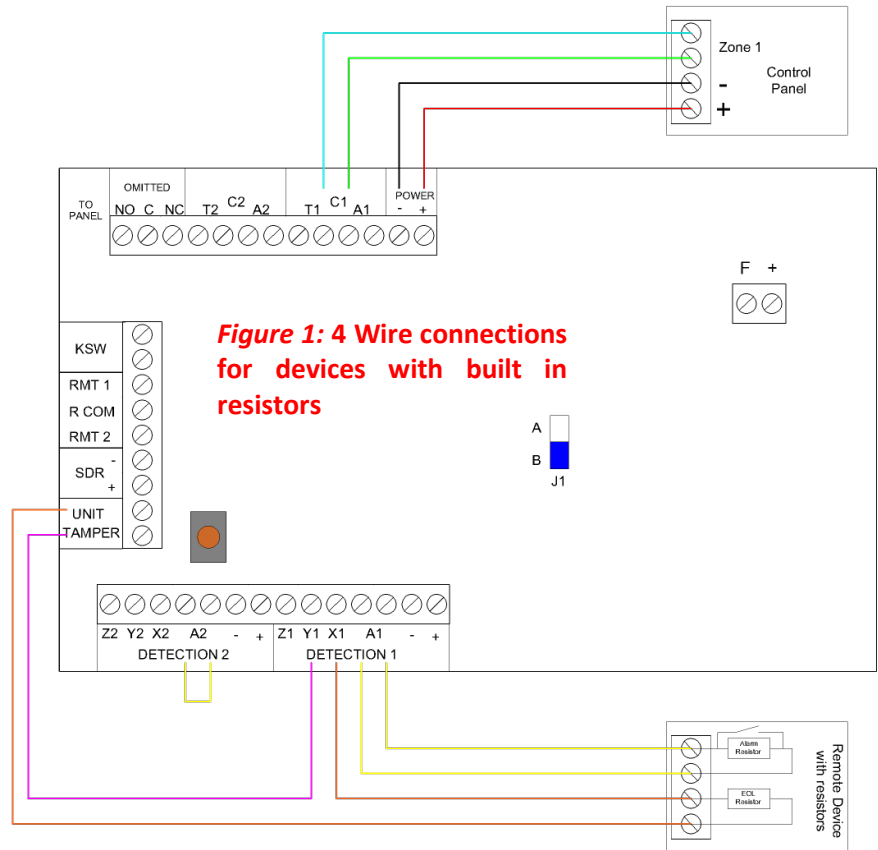
On the panel side use the C2 terminals.

On the detection side use A2, X2 and Y2 wired the same as Detection 1.

If using the unit tamper, ensure the tamper spring is fitted to the tamper button.

Requires a supply of 12vdc up to 200ma

- A zone can always be omitted regardless of the state of the connected device, e.g. if a door contact is open the zone can still be omitted.
- A zone cannot be reinstated while the connected device is active, e.g. if a PIR is active it needs to be cleared before reinstating that zone.
- In the Zoneguard's steady state no indications will be displayed.
- If the units sounds and LED III illuminates the device has developed a fault and will need to be set up again.
- The device will remember all settings in the event of power loss
- Remote devices must have a separate tamper and alarm pair, a 2-wire device is not suitable.



Operational modes:

- | | | |
|---|--|---|
| 1 Integral keyswitch - Factory default | 2 Integral keypad | 3 Remote latching input, e.g. keyswitch |
| 4 Remote non-latching input, eg. Biometric | 5 Combination of integral keypad & integral keyswitch | 6 Timed entry/exit, integral keyswitch execute |
| 7 Timed entry/exit, integral keypad execute. | 8 Omitted Door alarm. | 0 Beep while omitted. |

Operational Instructions

To Omit the Zones	
Mode 1	Turn the unit keyswitch to position 'O'
Mode 2	Type in the 6-digit code
Mode 3	Operate the remote device
Mode 4	Operate the remote device
Mode 5	Type in the 4-digit code and the unit will beep for approx. 10 seconds. During this time turn the unit keyswitch to position 'O'
Alternative for Mode 5	Turn the keyswitch to position 'O' and the unit will beep for approx. 10 seconds. During this time type in the 4-digit code
Mode 6	Open the start timer contact and the unit will beep for the entry/exit time. While the timer is timing, turn the keyswitch to position 'O'
Mode 7	Open the start timer contact and the unit will beep for the entry/exit time. While the timer is timing, type in the 6-digit code
Omit Indications	
In any mode, when the zones are omitted, a double beep will sound.	
To Reinstate the Zones	
Mode 1	Turn the unit keyswitch to position 'R'
Mode 2	Type in the 6-digit code
Mode 3	Operate the remote device
Mode 4	Operate the remote device
Mode 5	Type in the 4-digit code and the unit will beep for approx. 10 seconds. During this time turn the unit keyswitch to position 'R'.
Alternative for Mode 5	Turn the keyswitch to position 'R' and the unit will beep for approx. 10 seconds. During this time type in the 4-digit code.
Mode 6	Turn the keyswitch to position 'O' the unit will beep for the entry/exit time. While the timer is timing you can open and close the start timing contact, but if it is open at the end of the entry /exit time, it will indicate fault
Mode 7	Type in the 6-digit code, the unit will beep for the entry/exit time. While the timer is timing you can open and close the start timing contact, but if it is open at the end of the entry /exit time, it will indicate fault
Reinstate Indications	
In any mode, when the zones are reinstated, a long single beep will sound for 2 seconds.	
In modes 1-5, if a zone is not clear to be reinstated the tone will sound continuously and the corresponding zone LED will illuminate until the zone is re-omitted.	
In modes 6 & 7 if the entry/exit start contact is open, the tone will sound continuously, and LED III will illuminate until the zone is re-omitted.	
Changing the user code for the integral keypad	
1. With the zones reinstated, simultaneously press 0 and 1, a double beep will sound and all three LED's illuminate. 2. Enter the current code, a double beep will sound and LED I will extinguish. 3. Enter the new code, a double beep will sound, LEDII and LEDIII will extinguish 4. This must be completed within 30 seconds.	

Setup/Change Mode

The factory default for the Zoneguard is mode 1.

To enter setup:

1. Put the key in the 'R' position.
 2. Move jumper 'J1' to position 'A', two beeps will sound, and all three LED's will illuminate
 3. Enter the require mode number.
- **Mode 1 Press 1.** Two beeps will sound and LEDI and LEDII will extinguish, LEDIII will remain illuminated, the unit will beep.
 - **Mode 2 Press 2.** Two beeps will sound and LEDI will extinguish. LEDII and LEDIII will remain illuminated.
 - Type in your six-digit code.
 - Two beeps will sound and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 3 Press 3.** Two beeps will sound and LEDI and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 4 Press 4.** Two beeps will sound and LEDI and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 5 Press 5.** Two beeps will sound and LEDI will extinguish. LEDII and LEDIII will remain illuminated.
 - Type in your four-digit code.
 - Two beeps will sound and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 6 Press 6.** Two beeps will sound and LEDI will flash, LEDII and LEDIII will illuminate steady.
 - Type in the entry/exit time in seconds (two digits)
 - Two beeps will sound LEDI and LEDII will extinguish, LEDIII will remain illuminated, and the unit will beep.
 - **Mode 7 Press 7.** Two beeps will sound and LEDI will flash. LEDII and LEDIII will remain illuminated.
 - Type in the entry/exit time in seconds (two digits)
 - two beeps will sound LEDI will extinguish leaving LEDII and LEDIII illuminated.
 - Type in your six-digit code.
 - Two beeps will sound and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 8 Press 8.** Omitted door alarm; while the Zoneguard is omitted the alarm sounds for the duration that an alarm zone is open.
 - Two beeps will sound and LEDI will flash. LEDII and LEDIII will remain illuminated.
 - Press 0 for to turn off, press 1 for zone 1 only, press 2 for both zones.
 - Two beeps will sound LEDI and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.
 - **Mode 0 Press 0.** Beep while omitted, while the Zoneguard is omitted the sounder double beeps every 30 seconds.
 - Two beeps will sound and LEDI will flash. LEDII and LEDIII will remain illuminated.
 - Press 0 for no beep while omitted or press 1 to enable beep while omitted.
 - Two beeps will sound LEDI and LEDII will extinguish. LEDIII will remain illuminated, and the unit will beep.

To exit setup, move jumper 'J1' to position 'B'

Zoneguard ZG800

ZONEGUARD is a Grade 3 EN50131-3:2009 Environmental Class II zone omit unit that fits between intruder detection devices and a control panel, allowing door and areas to be freely used without triggering the panel. The Zoneguard cannot be used as a local alarm, if this function is required, please see the Exitguard range.

The default operation of the ZONEGUARD uses its integral keyswitch to omit or reinstate a zone from a panel.

Other modes are available using the integral keypad or an external device such as biometric reader or a combination of keyswitch and keypad, for when dual responsibility is needed. Timed entry/exit modes are also available.

The ZONEGUARD requires a supply of 12vdc (120ma quiescent - 200ma peak)

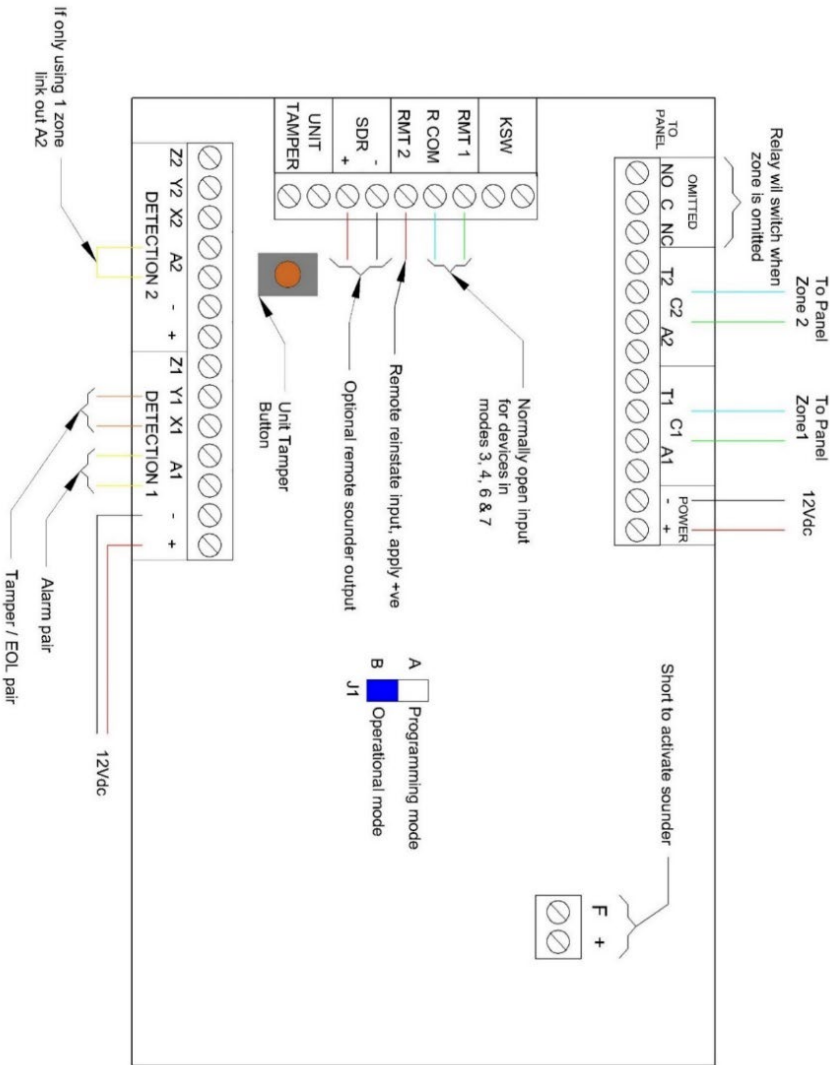
Zone Omit Theory

An intruder panel monitors two resistors, and end of line resistor (EOL) and an alarm resistor. The panel should always be able to see the EOL resistor, and a device such as a door contact will short out the alarm resistor e.g. Using a door contact, if the EOL resistor = 1KΩ and the alarm resistor = 1KΩ, with the door closed the panel will see 1KΩ, with the door open the panel will see 2KΩ.

In *Figure 3* below the Zoneguard controls the shunt switch, closing this when the zone is omitted allowing the zone to be used freely without the alarm resistor being seen by the panel, but it will still be able to monitor the EOL resistor.

The Zone guard will still monitor the alarm resistor preventing the zone from being reinstated while the connected device is active or in fault.

Figure 3



Remote Re-Instate	To reinstate the zones remotely apply a momentary +ve to the RMT2 terminal. If the zones have been omitted by the keyswitch or a latching device connected to RMT1, LED III will illuminate to warn that the zones are re-instated but the keyswitch is not in the correct position. Turn the Key to 'R' to clear LED III.
Omitted Relay	The relay will energise when the Zoneguard is omitted and de-energise when reinstated. The contacts are rated to 30Vdc @ 1A
Remote Sounder Output	The SDR output can drive remote sounders (12vdc 100ma max). This output follows omitted and reinstated tones.
Zoneguard Sounder Control Input	Shorting together the F & + terminals will sound the integral sounder.

