

# Zoneguard

# ZG800

The Zoneguard ZG800 is a Grade 3 EN50131 zone omit unit that facilitates the secure and safe omission and reinstatement of detection zones in intruder alarm systems, without triggering false alarms. It operates between intruder detection devices and the control panel.

### Key Features:

**Grade 3 Compatibility** - Specifically designed for use with Grade 3 passive infrared detection devices, which must include independent anti-masking and tamper detection.

**Uninterrupted Monitoring** - The Zoneguard allows 'end of line' resistors for each detection condition to pass through directly to the control panel, this ensures uninterrupted monitoring. The panel can monitor these resistors directly.

**Alarm Resistor Flexibility** - Zoneguard supports alarm resistors 1kΩ or higher.

### Modes of Operation:

- In its simplest form, Zoneguard uses an integrated keyswitch to omit or reinstate up to two detection zones.
- Additional modes are available via the keypad or external devices (e.g., biometric readers, or a combination of keyswitch and keypad), useful when dual responsibility is required.
- Two timed entry/exit modes are also provided.

### General Rules for Zone Operation:

- Zones will always be omitted through an omit function.
- If a zone detects an event during reinstatement, it must be returned to the omitted state, the detection condition cleared, and then reinstated.

### Benefits and Features

- Complies with EN50131 Grade 3
- Designed for detectors with separate alarm, anti-masking and tamper facilities
- Rear acting Tamper switch
- Omits two detection zones
- Integral high security keyswitch 30,000 differs
- Integral 9 digit keypad 500,000 differs
- Dual responsibility or combination mode gives over 150 million differs
- Zone / Fault LEDs
- Output for remote sounder
- Independent zone omitted relay
- Input for remote devices, keyswitches, shunt locks, biometric readers etc..
- Remote re-instate input.
- User programmable code change
- Timed entry/exit modes
- Non-volatile memory
- Suitable for use with other detection devices
- Local Sounder Options



### Operational Modes

1. Integral keyswitch mode. (Factory default) The keyswitch is a 7-pin tumbler with over 30,000 differs.
2. Integral keypad mode. The integral 9-digit keypad using a 6-digit code gives over 500,000 differs.  
A 10 second keypad lockout is incorporated after 5 incorrect codes are entered. 'Start again' is also incorporated if no digit is entered within 8 seconds.
3. Remote latching input mode, e.g. keyswitch. This would need to be at least 30,000 differs.
4. Remote non-latching input mode, e.g. biometric, card reader or similar. Modes 3 and 4 permit the Zoneguard to be fitted within one of the protected zones.
5. Combination of integral keypad & integral keyswitch. The 9-digit keypad used with a 4-digit code and the integral keyswitch gives over 150 million differs. Use of a 4-digit code is only possible in this combination mode. This mode is useful where dual responsibility is desirable.
6. Timed entry/exit, integral keyswitch to execute.
7. Timed entry/exit, integral keypad to execute.

These last two-timed entry/exit modes offer a higher degree of security because the procedure must be completed within a time window and the Zoneguard can be sited within one of the protected zones. Any device can be used to activate the time window, this could be a door contact or detector. The activation device should not be part of the intruder detection system but simply a device to start a procedure.

The Zoneguard requires a supply of 12vdc. (Quiescent 120ma in omitted state 200ma peak during programming). The non-volatile memory stores mode settings, time delays and codes in case of power down.