

## Product Data Sheet

# Ziton ZP3 – Lite

Single loop analogue addressable control panel

ZP3-Lite is a one-loop fire detection and alarm system, specifically developed for small to medium sized premises. It offers all the advantages of ZP3 analogue addressable technology configured into a single stand-alone unit.

The system offers tailor made engineered solutions for a wide range of small to medium sized applications. Modular design backed by powerful software enables the system be configured exactly to the needs of any commercial or industrial site, where a single panel solution is required.

Advanced design, combined with high sensitivity smoke and fire sensing, enables ZP3 - Lite not only to identify and disregard conditions, which would result in false or unwanted alarms - but to recognise real fires sooner.

Up to 127 line devices (sensors, callpoints, sounders or interface units) can be connected to the control panel. All loop devices incorporate switch settings enabling them to be assigned a unique address, the location of which is pinpointed and polled by the panel every two seconds. Variations in the sensors environment caused by increases of temperature or products of combustion are reported to the panel, where they are processed and compared to known fire data, prior to any alarm output being activated.

Constant communication between control panel and sensor enables ZP3 - Lite to provide a wide range of user facilities including pre alarm, constant sensitivity adjustment and service and near service listings for all sensor types.

Software flexibility enables facilities such as alarm organisation, evacuation procedures and complex cause and effect requirements to be easily programmed into even the smallest system.

All customer and site data is held in non-volatile flash memory, ensuring both ease of initial system data input and subsequent on site amendments and modifications should they occur.



### Features

- **Single panel – stand alone concept**
- **Full ZP analogue addressable technology**
- **Complies fully with EN 54 parts 2 and 4**
- **Advanced sensing techniques**
- **Loop powered sounders and beacons**
- **Radio/wireless detection interface**



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## Features

ZP3 - Lite supports, fire and non fire functions, loop powered sounders, up to 128 zones with 72 programmable inputs and outputs per panel, all covered by comprehensive programming facilities.

ZP3 'active' protocol provides complete reliability at all times. Systems feature the continuous monitoring of wiring and sensors, corrupt data detection and disconnection of faulty or corrupt loop sections.

Built in system diagnostics improves levels of maintenance and reduces service costs. Included are remote diagnostic support (optional), sensor and sounder testing, statistics and status reports, sensor contamination and near service reports and 'one man - zone walk test'.

## Other features include:

Ease of Operation - user interface incorporating both large, 160 character LCD display and traditional LED indicators provide clear, easy to understand information at all levels.

Service and near service facility - compensates for sensitivity drifting over time period listing sensors that are due for cleaning and others that may be approaching the service condition.

Sophisticated alarm verification - offers two time integration levels for each address, selectable to suit sensor environment.

Automatic Self-Test - all sensors are functionally tested every 24 hours ensuring full functionality and correct calibration at all times.

Day / night control - separate programs for day and night operation. Different sensor sensitivity, alarm selection, alarm delays and fire brigade response can be configured.

Radio Loop Interface – full analogue system

facilities via wireless interface enables equipment to be sited where access is difficult or cable runs impossible.

Automatic contamination adjustment for each sensor - maintains constant sensitivity.

Intelligent loop isolation - maintains system integrity against partial or full short circuit faults and monitors for data corruption.

Self-test sounder - loop wired sounder range features built in microphone circuit to automatically test sounder output by loop, zone or individual unit.

Password protection - provides multilevel access, complying with EN54 Part 2.

Event Log - all system events for example alarms, faults and disablements are held in the control panel memory. Up to 1000 events can be displayed or printed in order.

## Software Support Packages

### Optional facilities

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An onboard printer module together with a series of facility boards can be added to the standard panel to extend any system up to a maximum of 72 programmable inputs and outputs.

### Panel upgrade

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ZP3 - Lite, is designed to provide unrivalled, single loop facilities at very competitive costs. To upgrade the unit, for networking and full serial communications support, requires a change out of the main control board – to either a ZP3-1L, -2L or -4L control board.

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## Specification

### Model No

ZP3 - 1Lite

### Description

Single loop, stand- Stand alone, single loop, analogue addressable fire detection and alarm control panel

### Specification

Control panel EN 54 Pt 2  
Integral power supply unit EN 54 Pt 4  
Meets recommendations in systems to BS 5839 Pt1

### EMC

CE marked (IEC89/336)

### Configuration

Loops 1 Loop  
Addresses Up to 127

### Compatibility

All ZP analogue addressable line devices

### Mounting

Surface or recessed (with ZP3 flushing collar)

### Power Requirements

Panel (quiescent at 24 Vdc) 420mA, load of panel only, excluding any external devices in alarm  
Panel (alarm at 24 Vdc) 820mA, 25% of zones in alarm  
Loop (quiescent at 24 Vdc) 70mA, fully loaded loop, with 127 ZP devices, not in alarm

### Power Supply

Input 230 Vac 50 Hz + or -10%  
0.75 Amps  
Optional input dc 24 to 50 Volts, load dependent  
User output 24 Vdc (nominal) up to 3.0 Amps  
Battery charge 28.2 Vdc 1.2 Amps

### Wiring

2 core screened (to local codes and standards)

### Monitoring

Loop wiring Open and short circuit fault, earth leakage, sensor removed and wrong device type

### Switched outputs (standard)

Sounder circuits (programmable) 2 x dual (monitored)  
Fire (common) 1 volt free N/O or N/C  
Fault (common) 1 volt free N/O or N/C (software set)  
Remote manned centre (fire) 1 monitored  
Remote manned centre (fault) 1 monitored

### Switched outputs & inputs (optional & programmable)

Non-loop devices  
Sounder circuits

A total number of 72 I/O may be added. These can be combinations of relay outputs, transistor outputs and monitoring inputs - subject to optional facility board configuration.

### Indicators

System status 87 light emitting diodes  
Text display 4 line, 160 character, LCD (back lit)

### Optional printer

24 character (built into front door)

### Software

Firmware and site configuration programming – Flash memory

### Communications ports

Z-Port 1 Planner RS 232 (accessed from front door)  
Common sounders, Coincidence alarm, RMC fire

### Selectable features

RMC fault, Zone walk test, Control output, Output delays, Alarm counter, Sounder silence delay, Alarm verification

### Standby batteries

2 x 12 volt sealed lead acid  
Up to 28 Ah (Panasonic) accommodated inside panel enclosure

### Temperature range

-50C to +40C

### Humidity range

10% to 90% RH (non condensing)

### Environmental

IP 30 (indoor installation)

### Construction

Enclosure Back box and hinged door, sheet steel

### Dimensions

540 mm (H) x 410 mm (W) x 137 mm (D)  
Overall dimensions when mounted in flushing collar-  
623 mm (H) x 512 mm (W)  
15 mm surface projection when recessed

### Colour

Pantone 428c Cool grey

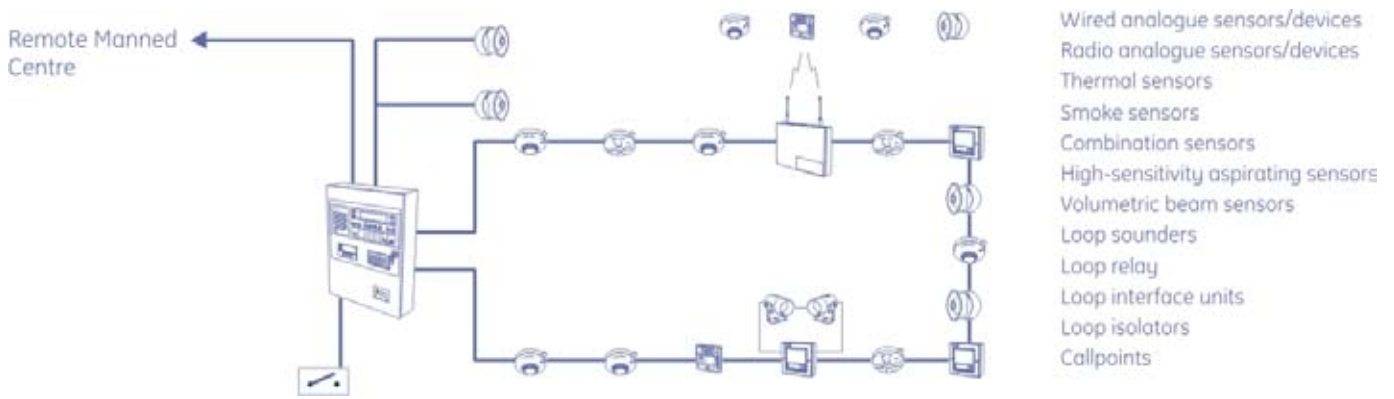
### Weight

10.5 Kg (batteries excluded)

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## System schematic



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