

# Zerio Radio Fire Alarm Control Panel

## EDA-Z1000

- 8 Zones
- 99 Addressable Devices
- 60 Character Full Location Text Capability
- 48 Hour Standby
- Compact Design
- Programmable on-site
- No expensive ancillary programming equipment required
- Communication interface via RS 232 port
- Programmable Function Keys
- Radio Self Surveying
- Analogue Functionality



### DESCRIPTION

The Zerio EDA-Z1000 is a compact radio fire alarm system designed for use in smaller installations such as HMO's, small commercial premises and residential homes. With the culmination of 30 years experience of fire alarm system design and manufacture, the Z1000 complements Electro-Detectors' well established Millennium series of equipment with new features. The installer does not require expensive additional equipment to configure the complete system. Once installed, the control panel is used to aid system set-up, program devices and to commission the system.

The automatic set-up and learn modes simplify configuration decisions, reducing the possibility of errors. The servicing/addition/removal of devices does not require extra programming equipment. Complex cause and effects can be programmed into the panel using the front keypad or by connecting a PC or a standard PS/2 keyboard. Internal configuration and data can be downloaded on to a PC or stored on a removable memory card.

The panel is capable of warning of any devices approaching their pre-programmed alarm condition and should any of the devices gradually become contaminated, a warning condition is generated.

If devices need to be installed beyond the range of the control panel, a radio sounder can be configured as a booster unit, running from a mains supply, to relay information around the system. Up to 5 boosters can be added to the system, which can operate either as single or multi-stage repeaters allowing successful installations to be achieved in the most "radio difficult" buildings.

### TECHNICAL INFORMATION

Fully addressable for 99 devices in 8 zones  
High visibility 4 line liquid crystal display with LED backlight  
Separate LED indication for zone of alarm  
Programmed via - Panel 12 button keypad  
- PC interface (using adapter)  
- PS/2 QWERTY keyboard  
Built in power supply and charger for 12V 2.8Ah SLA battery  
48 hr standby as standard  
Programmable Fire Relay  
Programmable Fault Relay  
2x Hardwired Programmable Monitored Inputs  
Compact enclosure permitting siting in restricted spaces  
Antennae are monitored for removal  
Internal memory can be backed up to PC or proprietary memory card  
2 x Programmable Function Keys  
Sophisticated configuration settings allow complete user flexibility  
Complies with all applicable requirements of BS5839 and EN54pt 2&4

### SOFTWARE FEATURES

Secure protocol with complex error checking  
255 event log memory  
Date and Time displayed on Screen  
Automatic Summer Time adjustment GMT/SMT  
Flash backed memory to prevent loss of operating data  
Non volatile storage of set-up information  
6 level access code to assist in system security  
Intelligent learn modes to assist in commissioning the system  
Both sounder tones and sounder zones are uniquely programmable  
Programmable test modes  
Program firmware upgradeable via PC  
Pre-alarm and head dirty warnings

## CONTROLS

Simplicity of operation is a principal design feature. There are five levels of access via a password entry system for the following : (i) Basic user. (ii) Advanced user. (iii) Service engineer. (iv) Commissioning engineer (v) Advanced commissioning engineer. The menu system is a very simple to use structure using navigation keys to select the appropriate option. Programming of the system can be performed using the panel keypad, a PS/2 keyboard connected to the panel or a PC connected to the panel.

## INDICATORS

All necessary information is provided by a 4 line liquid crystal display which illuminates when a key is pressed or an event has occurred. Additional indication is provided by 8 red 'Zones in alarm' LED's, 5 yellow fault indicators, 4 yellow status indicators and a green supply indicator.

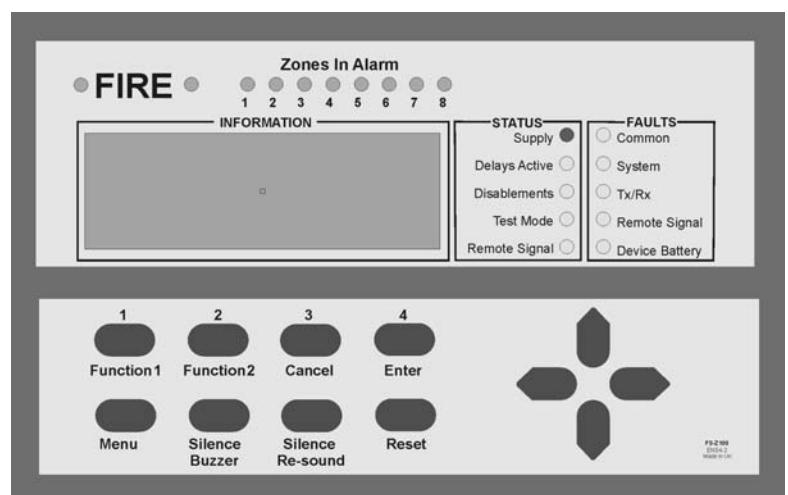
## SPECIFICATION

Maximum Number of Zones	8	Supply:	Mains : 230V 50Hz 0.2A max Battery : 12V 2.8 Ah sealed lead acid ( giving > 48hour standby )
Maximum Number of Devices (Devices include Detectors, Call Points, Transmitters, Sounders and Actuators)	99	Auxiliary relays	Fire -1A Changeover Contacts Fault -1A Changeover Fail Safe Contacts
Maximum no of radio booster units	5	Inputs	2x wired callpoint monitored circuit (4k7 ohm end of line resistor monitored for open and short circuit, 470 ohm alarm load)
Dimensions (mm) W x H x D	290 x 220 x 85	Operating Frequency	173.225MHz
Weight (not including battery)	4Kg	Modulation	NBFM
Alarm Indicators	Twin flashing red LEDs8x Red individual zone indication Fire message on LCD with 60 scrolling characters of location text	Output Power (ERP)	10mW
Fault Indicators	Amber LEDs LCD providing details and location of fault with 60 scrolling characters of location text	Operational Temperature	0°C to +60°C
Event Log Storage	255 events maximum	Applicable Standards and Approvals:	
		European Fire Alarm	EN54 – 2 and 4
		British Standards	BS 5839 Part 1
		R&TTE	EN300 220
		EMC Standards	EN301 489-3 EN50130-4

## Part Numbers for System

Part No	Description
EDA-Z1000	Zerio 8 Zone Control Panel
EDA-C1000	Radio Call-point
EDA-R1000	Radio Optical Smoke Detector
EDA-R2000	Radio Combined Optical Smoke Detector with Sounder
EDA-D1000	Radio Heat Detector
EDA-D2000	Radio Combined Sounder with Heat Detector
EDA-A2000	Radio Sounder Unit
EDA-A2060	Radio Strobe Unit
EDA-A2080	Radio Output Unit with Clean Changeover Contacts
EDA-A2100*	PSU for A2000 to convert to booster unit

\* available Autumn 2005



Display and Control Layout

In pursuance of a policy of continued product improvement, Electro-Detectors Ltd reserves the right to change the design and specification without prior notice. All details were correct at time of printing.

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