

# Radio Fire Alarm Control Panel

EDA-M100

- **99 Zones**
- **3000 Devices**
- **Advanced Dual Frequency Protocol**
- **72 Hour Standby**
- **Compact Design**
- **Site Programmable**
- **Interface with the complete range of EDA products**
- **Communication interface via RS 232 port**



## DESCRIPTION

Electro-Detectors has drawn from 12 years experience of manufacturing radio fire alarm systems and taken into account the changing requirements of the market place to produce a system offering greater controllability of devices from the control panel. The MILLENNIUM system is a worthy successor to the well established EDA series. At the heart of the MILLENNIUM system is a compact control panel designed around a 16 bit processor and featuring surface mount technology. 16 times more powerful than its predecessor and capable of supporting 3 times the number of devices, the panel benefits from well designed and clearly labelled operational features. Versatile software means that the MILLENNIUM will interface readily with most other hardwired systems and is user friendly. Programming of devices can be carried out either by direct use of the internal keypad or via the PC interface. Excellent message quality is achieved as a result of a CCFL backlit 8 line liquid crystal display. For a permanent record of messages an optional self contained printer can be specified. As with all Electro-Detectors products, build quality is stringently controlled at every stage ensuring complete reliability of the panel during operation.

The main panel operates as either a stand alone system, or for larger installations, through a network of repeater panels. Electro-Detectors have designed a repeater panel specifically for the purpose, using all the common features of the main panel. The repeater panel is even smaller than the main panel and is intended to be sited in an inconspicuous position, requiring only a mains supply. All communication and data retrieval is accomplished by radio via the main panel.

## TECHNICAL INFORMATION

16 bit processor operating at 16 MHz  
Surface mount technology gives maximum reliability  
Dual synthesised transmitter  
Dual direct conversion receiver  
Highly visible 8 line liquid crystal display with CCFL backlight  
Separate 3 digit LED zone indication  
Fully addressable for 3000 devices  
Programming via internal keypad and/or PC interface  
Built in power supply and charger for 12V 7Ah sealed lead acid battery  
72 hr standby as standard  
Attractive compact enclosure permitting siting in restricted space  
Accepts either in-built helical or remote dipole antennas

## SOFTWARE FEATURES

Secure protocol with complex error checking  
1000 event log memory  
Battery backed memory to prevent loss of operating data  
Non volatile storage of set-up information  
3 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  
Day and night operating modes  
Programmable test modes

## OPTIONAL FEATURES

2 or 4 sounder circuits (24V 0.5A) fully programmable

40 column printer

Modem to provide remote access to the status of the system and, if necessary, control of the system

## CONTROLS

As with previous EDA systems, simplicity of operation is a principal design feature. Four primary controls are provided, namely Evacuate, Alert, Silence and Reset, which are accessed via the door key. With the exception of the printer control, further access to the system for programming device isolation, test routines and service modes is by passwords and an easy to use menu driven program.

## INDICATORS

All necessary information is provided by an 8 line liquid crystal display which illuminates when an event has occurred. Additional indication is provided by 9 status LED's, a 3 digit zone alarm display and 99 LED's for individual alarm zone indication.

## SPECIFICATION

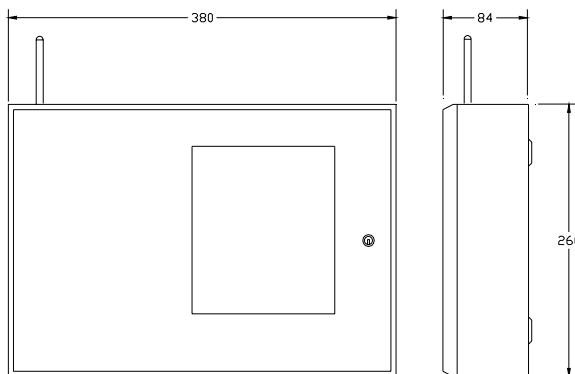
Maximum Number of Zones	99
Maximum Number of Devices	3000
Devices include Detectors, Call Points, Transmitters, Sounders and Actuators	
Maximum number of repeater panels	50
Wired Sounder Circuits	24V 0.5A
Output - Selectable	Continuous/Pulsed
Alarm Indicators	Twin Flashing Red LED 3 digit 7 segment display providing initial zone number fire message on LCD
Fault Indicators	Amber LED LCD providing cause and location of fault
Event Log Storage	1000 events maximum
Supply :Mains	230V 50Hz 75VA max
:Battery	12V 7.2 Ah sealed lead acid giving 72 hour standby
External DC	24V 3.5A max

Outputs	24V 0.5A
Auxiliary relays	1A Changeover contacts
Inputs	Wired call point monitored circuit 4k7 ohm end of line resistor monitored for open and short circuit
Operating Frequency	173.225 to 173.325 MHz
Modulation	NBFM
Output Power (ERP)	10mW
Operational Temperature	0 to +60 0C
IP Rating	IP54
Humidity	<75% relative non-condensing

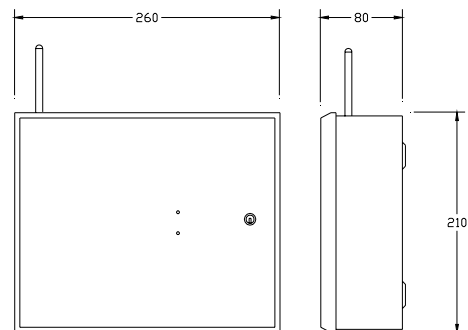
### Applicable Standards and Approvals:

European Fire Alarm	EN54 – 2 and 4
British Standards	BS 5839 Part 1:2002
R&TTE	EN300 220
EMC Standard	EN301 489-3 EN50130-4
Electrical Safety	EN60950:2001

## Outline Drawing



**EDA-M100 Main Control Panel**



(All dimensions in mm)

**EDA-M300 Radio Repeater Panel**

## Ordering Information

Description	Part Number
Standard Panel	EDA-M100
Standard Panel with Printer option	EDA-M150
Repeater Panel	EDA-M300

In the 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.

# Electro-Detectors

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