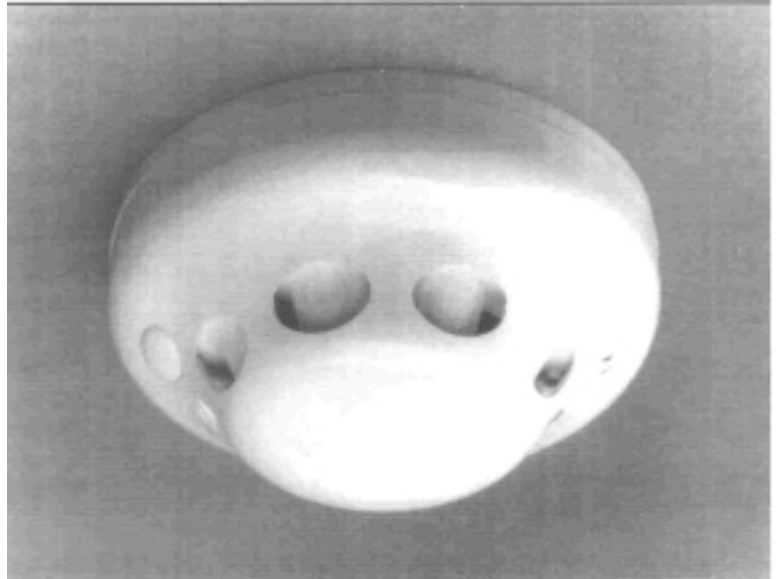


Millennium Universal Radio Detector

ED A -R300 1 J300 ID300 18300

- .3000 Addressable Devices
- .Selectable Sensitivity
- .10 Year Battery Life
- .Attractive Compact Design
- .Simple On-site Re-calibration
- .Surface Mount Technology
- .Compatible with the Complete Range of EDA Products
- .Programmable Non-Volatile Memory



DESCRIPTION

The Millennium Universal Radio Detector from Electro-Detectors represents a new benchmark in terms of what the marketplace can expect from a radio device. The radio Millennium Detector is the latest development from a company, which has over 20 years of designing and manufacturing fire alarm systems.

Housed in a modern attractive, low profile, moulding the new radio addressable detector contains a powerful processor and utilises surface mount technology to achieve the ultimate in performance and reliability.

An industry first has been achieved by integrating the radio transmitter, the smoke / heat detection sensors as well as the processor onto a single circuit board reducing size and increasing reliability over multiple assembly designs. Long operational life, high sensitivity and stable operation has been successfully achieved by using the most technologically advanced components.

Fully electrically configurable the Millennium detector features programmable sensitivity. A unique serial number and the length of time in service are stored in its internal memory. All data is retained in this non-volatile memory which is not corrupted or erased even should power be removed. A ten-year battery life and sensor re-calibration minimises detector maintenance but sophisticated self-testing ensure confidence in detector operation.

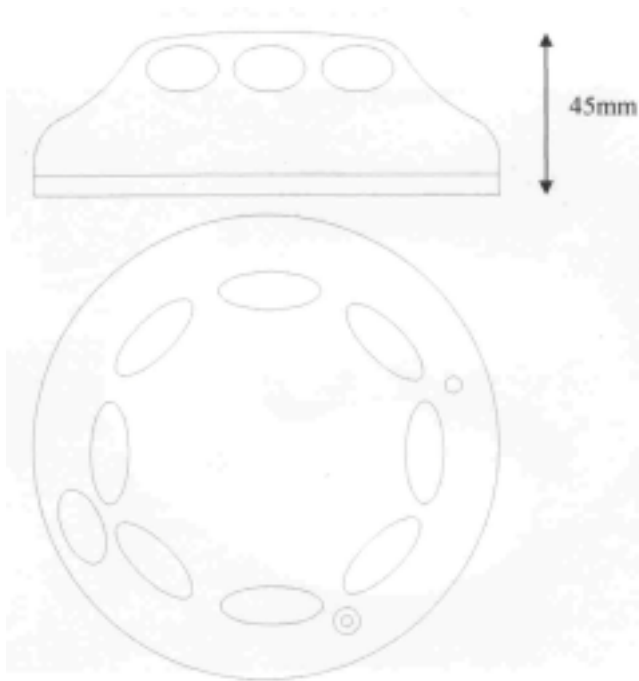
The Millennium Detector can be supplied with optical smoke, ionisation smoke, rate of rise heat or fixed-point heat heads and are designed to comply with all appropriate sections of EN 54.

SPECIFICATION

Power source	Dual lithium cells
Battery life	10 years
Detector types	Optical Ionisation Rate of Rise Heat Fixed Point Heat - 10°C to +60°C
Temperature range	
Construction	
-Insect Screen - Casing	Stainless Steel Foil Injection Moulded U. V . Stabilised ABS Plastic
-Electronics	Single Circuit Board Construction Surface Mount Technology
Options	Multiple Heads Remote LED Lockable Head Coloured Body

ORDER CODES

EDA-R300	Radio Optical Smoke Detector
EDA-J300	Radio Ionisation Smoke Detector
EDA-D300	Radio Rate of Rise Heat Detector
EDA-S300	Radio Fixed Point Heat Detector



110mm

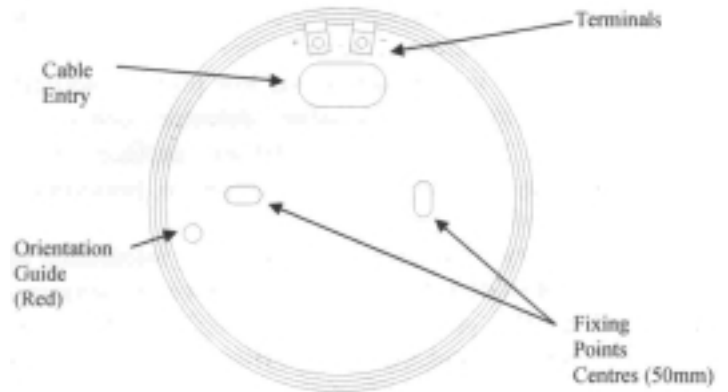
TECHNICAL INFORMATION

Selectable sensitivity for optical and ionisation smoke detectors
 Conforms to appropriate parts of BS5445 and EN54 Adjustable alarm settings for both heat detectors
 Low current technology with a battery life of 10 years Powered by 2 independent AA lithium cells
 Surface mount technology giving maximum reliability
 Transmitter frequency 173.2250 MHz
 Electronic serial number
 Short transmission time
 Complex error checking
 Self calibration facility
 Internal monitoring and fault diagnostic reporting
 Adjustable alarm verification time interval
 Fault and alarm count
 Narrow gauge mesh to prevent ingress of foreign bodies
 Security locking screw (supplied separately)

OPTIONS

External Antenna	EDA-x305
External Alarm Input External	EDA-x310
Input for Slave Device Remote	EDA-x320
LED	EDA-x330
Slave Unit	EDA-x350

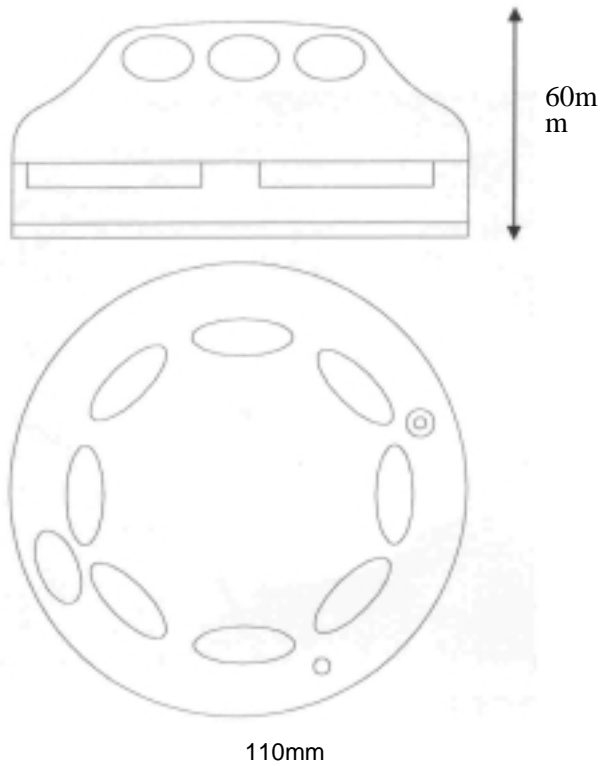
Where x refers to the device type (R,J,D or S)



Detector Base Outline

GENERAL INFORMATION

Weight (Including Base)	200g (approx.)
Dimensions (Including Base)	
Height	45mm
Diameter	115mm
Indications	High intensity clear LED Flashes red in alarm, fault and test modes
Audible Warning	Sounds in alarm, device re-calibration and test mode 2 x
Fixing Holes	4mm (No.6 screws) 50mm spacing
Terminal Capacity	2 x 1.5mm ²
Cable Entry Finish	25 x 14-mm rear entry only White Polished Colours optional



TECHNICAL INFORMATION

Analogue or conventional capability for smoke and heat detectors
 Advanced smoke sensing protocols
 Conforms to appropriate parts of BS5445 and EN 54
 Low current technology with a battery life of 7 years
 Powered by 4 independent AA lithium cells
 Surface mount technology giving maximum reliability
 Transceiver frequency 173.2250 MHz
 Narrow band FM receiver
 Electronic serial number
 Short transmission time
 Complex error checking
 Self calibration facility
 Internal monitoring and fault diagnostic reporting
 Adjustable alarm verification time interval
 255 sounder areas
 Fault and alarm count
 Small gauge mesh to prevent ingress of insects and foreign bodies
 Security locking screw (supplied separately)

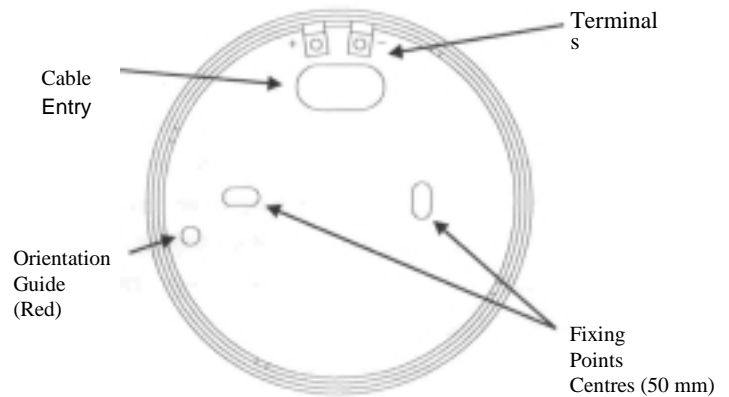
OPTIONS

External Antenna	EDA-xy05
External Alarm Input	EDA-xy10
External Input for Slave Device	EDA-xy20
Remote LED	EDA-xy30

Where x refers to the device type (R,J,D or S)
and y is 4 or 6

GENERAL INFORMATION

Weight (Including Base)	300g (approx.)
Dimensions (Including Base)	
Height	45mm
Diameter	115mm
Indications	High intensity clear LED Flashes red in alarm, fault and test modes
Audible Warning	Sounds in alarm, device re-calibration and test mode 95 dBA at 1m
Sounder Output	2 x 4mm (No.6 screws) 50mm spacing
Fixing Holes	2 x 1.5mm ²
Terminal Capacity	25 x 14 mm rear entry only
Cable Entry	White Polished
Finish	Colours optional

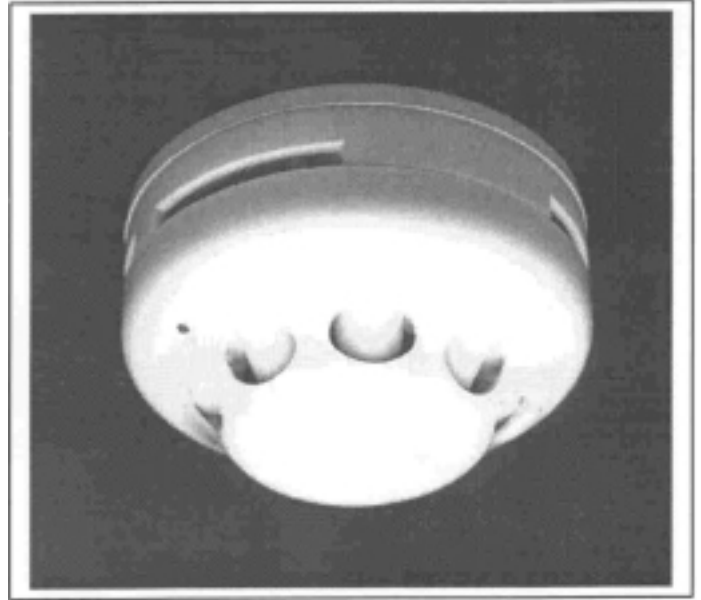


Base Outline

Combined Radio Detector & Sounder

ED A -R400 | J400 ID400 | 8400 IR600 | J 600 18600

- .Integral Radio Sounder
- .3000 Addressable Devices
- .Analogue or Conventional
- .Attractive Compact Design
- .Simple On-site Re-calibration
- .Surface Mount Technology
- .Compatible with the Complete Range of EDA Products
- .Programmable Non-Volatile Memory



DESCRIPTION

After the successful launch of The Millennium Analogue Radio Detector, Electro-Detectors can now offer a complete range of conventional or analogue detectors combined with a radio sounder.

Offering the advanced features of the Millennium detector product range, compatibility with all Electro-Detectors products and housed in an attractive moulding the combined detector shares a common fixing and is interchangeable with the existing Millennium detector.

The combined detector contains a powerful processor and utilises surface mount technology to achieve the ultimate in performance and reliability. The sounder section utilises a high output sounder, switch mode power supply and a sensitive narrow band FM receiver.

Additional options include fully monitored input, for connection to other devices, selectable sounder tones and supporting up to 255 areas.

Fully electrically configurable, the combined detector stores a unique serial number and length of time in service in its non-volatile memory. The Millennium combined detector can be supplied as: i) optical smoke, ii) ionisation smoke, iii) rate of rise heat, iv) fixed point heat detector in analogue or conventional forms. The combined detector is designed to comply with all appropriate sections of EN 54.

SPECIFICATION

Power source	Four lithium cells
Battery life	7 years
Detector types	Optical Ionisation Rate of Rise Heat Fixed-Point Heat
Sounder	95dBA at 1m
Receive	Narrow band FM
Temperature range	-10°C to +60°C
Construction	
-Insect Screen	Stainless Steel Foil
-Casing	Injection Moulded U. V. Stabilised ABS Plastic
-Electronics	Single Circuit Board Surface Mount Technology
Options	Multiple Sensors Remote LED Lockable Head Remote Antenna Coloured Body

ORDER CODES (for combined Detector & Sounder)

EDA-R600	Analogue Radio Optical Smoke Detector
EDA-J600	Analogue Radio Ionisation Smoke Detector
EDA-S600	Analogue Radio Fixed Point Heat Detector
EDA-R400	Conventional Radio Optical Smoke Detector
EDA-J400	Conventional Radio Ionisation Smoke Detector
EDA-D400	Conventional Radio Rate of Rise Heat Detector
EDA-S400	Conventional Radio Fixed Point Heat Detector

Radio Callpoint

EDA-C300/C340

- .3000 Addressable Devices
- .10 Year Battery Life
- .Attractive Compact Design
- .Compatible with the
Complete Range of EDA
Products
- .Internal Event Memory
- .Electronically Programmable
- .Reliable Single Board
Surface Mount Construction



DESCRIPTION

The radio break glass unit or radio call point is a fundamental item for any radio fire alarm system. The new design has taken advantage of the advances in technology seen in the very popular Millennium range of ED A sensors. The self-contained unit incorporates the New World series KAC call point and houses the transmitter, antenna and batteries powering the unit for approximately ten years and is only 40 mm deep.

From a company which has over 25 years experience of designing and manufacturing fire alarm systems, the call point contains a powerful processor and utilises modern fabrication techniques to achieve the ultimate in performance and reliability. On board memory includes an event log, non-volatile configuration information and a unique serial number.

The radio callpoint can be supplied as a standard unit or as an IP55 version and is designed to comply with all appropriate sections of EN 54.

SPECIFICATION

Maximum Devices 3000

Power source Dual lithium cells

Battery life 10 years

Temperature range 0°C to +60°C

Construction

-Casing Red KAC New World Series
Red Slim-line Back Box

-Electronics Single Circuit Board
Construction

ORDER CODES

EDA-C300 Radio Callpoint

EDA-C340 Radio IP55 Weatherproof
Callpoint

TECHNICAL INFORMATION

Conforms to appropriate sections of BS5839 and EN-54 Low current technology with a battery life of 10 years Powered by two independent AA Lithium cells Transmitter Frequency 173.2250

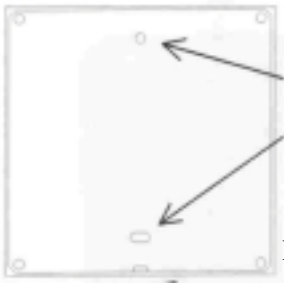
Short transmission time

Complex Error Checking

Internal monitoring and fault diagnostic reporting Internal event and status monitoring memory Electronic serial number Adjustable verification interval

Buzzer to indicate transmitting alarm condition

LED to indicate occurrence of fault or alarm



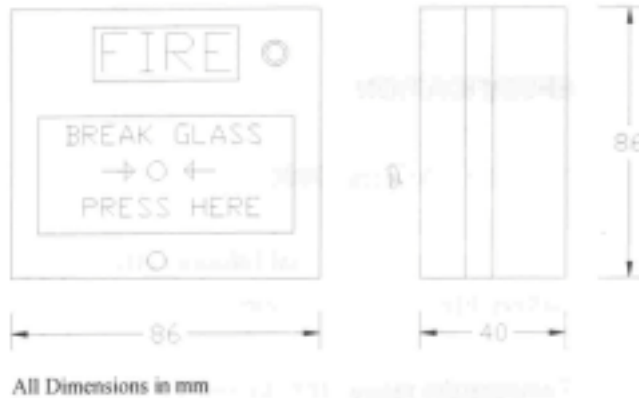
Fixing Positions

Optional
Fixing / Positions

Callpoint Back-box Outline

Unit Securing Screw

GENERAL INFORMATION -EDA-C300



Weight (Including Base)

200g

Dimensions (Including Base)

(approx.)

Height

86mm

Width

86mm

Depth

40mm

Indications

High intensity clear LED
Flashes RED in alarm,
fault and test modes

Audible Warning

Sounds in alarm

Fixing Holes

2 x 4mm (No.6 screws)

Finish

Red Call point (Colours
Optional) Red Back Box

GENERAL INFORMATION -EDA-C340

The weatherproof callpoint utilises the same electronic circuitry and batteries as the standard unit but is housed in an IP55 enclosure.

Weight (Including Base)

250g

Dimensions (Including Base)

(approx.)

Height

120mm

Width

122mm

Depth

80mm

Fixing Holes

4x4mm (No 6 Screws)

Finish

Red

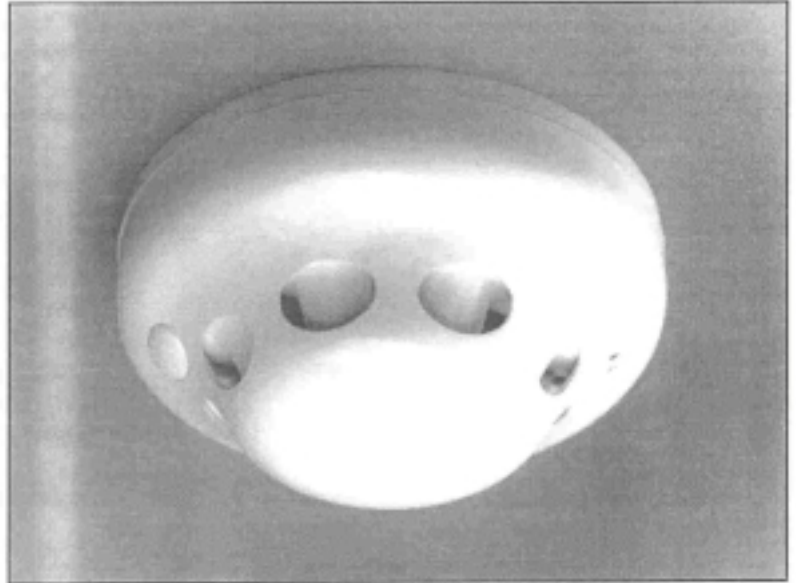


EDA-C340 -IP55 Weatherproof Callpoint

Millennium Analogue Radio Detector

EDA-R500 1 J 500/D 500/5500

- .3000 Addressable Devices
- .Full Analogue Detection
- .10 Year Battery Life
- .Attractive Compact Design
- .Simple On-site Re-calibration
- .Surface Mount Technology
- .Compatible with the Complete Range of EDA Products
- .Programmable Non-Volatile Memory



DESCRIPTION

After the successful launch of The Millennium Universal Radio Detector, Electro-Detectors can now offer both analogue smoke and analogue heat detectors. Our established range of Millennium control panels has been further developed to create the first truly analogue radio fire alarm system. The system now offers facilities to adjust the sensitivity of detectors through a simple menu on the control panel. Such is the flexibility of the system, that if required, the sensitivity of devices can automatically be increased during the night time when the building is unoccupied.

Housed in the same attractive low profile moulding as the conventional detector, the analogue detector contains a powerful processor and utilises surface mount technology to achieve the ultimate in performance and reliability.

The highly advanced protocol allows control panels to detect the smallest change in both temperature and smoke levels, in a matter of seconds, whilst still minimising the possibility of nuisance alarms. As the smoke level rises a pre-alarm indication will be displayed by a panel before the system activates its full alarm condition. Should a detecting device become dirty during its natural life a warning will be transmitted to the control panel.

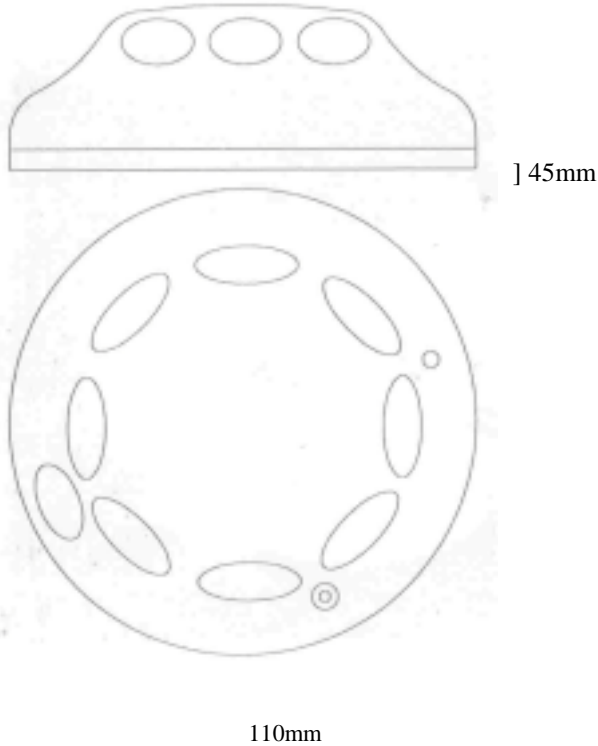
Fully electrically configurable, the detector stores a unique serial number and length of time in service in its non-volatile memory. The Millennium Analogue detector can be supplied as: i) optical smoke, ii) ionisation smoke, iii) rate of rise heat, iv) fixed point heat heads. The detectors are designed to comply with all appropriate sections of EN 54.

SPECIFICATION

Power source	Dual lithium cells
Battery life	10 years
Detector types	Optical Ionisation Rate of Rise Heat Fixed Point Heat
Temperature range	-10°C to +60°C
Humidity	0 to 95% (no condensation)
Construction	
-Insect Screen	Stainless Steel Foil
-Casing	Injection Moulded V.V. Stabilised ABS Plastic
-Electronics	Single Circuit Board Construction Surface Mount Technology
Options	Multiple Heads Remote LED Lockable Head Remote Antenna Co loured Body

DETECTOR ORDER CODES

EDA-R500	Analogue Radio Optical Smoke Detector
EDA-J500	Analogue Radio Ionisation Smoke Detector
EDA-D500	Analogue Radio Rate of Rise Heat Detector
EDA-S500	Analogue Radio Fixed Point Heat Detector



TECHNICAL INFORMATION

Full analogue capability for both smoke and heat detectors
 Advanced smoke sensing protocols
 Conforms to appropriate parts of BS5445 and EN54
 Low current technology with a battery life of 10 years
 Powered by 2 independent AA lithium cells
 Surface mount technology giving maximum reliability
 Transmitter frequency 173.2250 MHz
 Electronic serial number
 Short transmission time
 Complex error checking
 Self calibration facility
 Internal monitoring and fault diagnostic reporting
 Adjustable alarm verification time interval
 Fault and alarm count
 Small gauge mesh to prevent ingress of insects and foreign bodies
 Security locking screw (supplied separately)

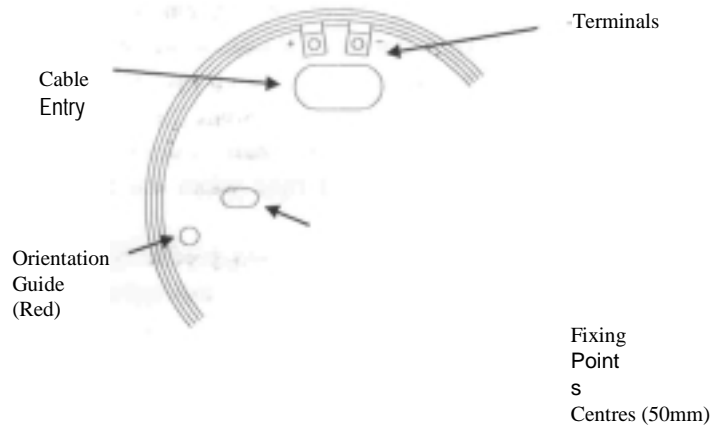
OPTIONS

External Antenna	EDA-x505
External Alarm Input External	EDA-x510
Input for Slave Device Remote	EDA-x520
LED	EDA-x530
Slave Unit	EDA-x550

Where x refers to the device type (R,J,D or S)

GENERAL INFORMATION

Weight (Including Base)	200g (approx.)
Dimensions (Including Base)	
Height	45mm
Diameter	115mm
Indications	High intensity clear LED Flashes red in alarm, fault and test modes
Audible Warning	Sounds in alarm, device re-calibration and test mode 2 x
Fixing Holes	4mm (No.6 screws) 50mm spacing
Terminal Capacity	2 x 1.5mm ²
Cable Entry Finish	25 x 14 mm rear entry only White Polished Colours optional



Detector Base Outline

EDA-M100 Remote Modem Link

- .Access System via Phone Link
- .View Current Status
- .View Event Log
- .Simple to Use
- .Password Protection
- .Store Information Retrieved
- .View System Options
- .Program System Options
- .Windows 1998 /2000 Platform



Description

By simply clicking a button on your computer screen it is possible to interrogate the Electro-Detectors Millennium fire alarm system from a remote location. Providing your PC has a modem connected you can dial into the fire alarm system from anywhere in the world to find out the current status of the system or any previous events that have occurred.

This information can be used to confirm what has already been reported by your staff or so that an engineer, due to attend site, knows exactly what equipment he needs to take with him. Analogue sensor units can also be interrogated prior to a service visit to determine whether they are due for cleaning.

The simple user interface pictures a control panel on the computer screen and operates as if you were standing in front of the panel. Each key press will mimic exactly what would happen at the control panel. The computer screen displays the information that you would expect to be displayed on the control panel.

Entry to the system is password protected to prevent unauthorised entry to the system. There are two levels of entry, one enabling interrogation of the panel only and the other allowing system changes. The system can be programmed so that someone at the control panel must authorise entry to a remote connection maintaining strict security of the system.

The options and settings of the panel can also be changed prior to commissioning but an engineer will be required on site to test any changes. This allows all system programming to be performed by experienced commissioning engineers remotely from their office and any installation and testing to be performed by not so experienced engineers.

Technical Information

View Current Panel Display Remote

Isolation of Units and Zones Change

Date and Time Remotely Download

of 1000 Events to PC

Download of Data Reception/ Verify
table Download of Panel Options

Load Panel Messages

Load Panel Options

Examination of each device for:

Frequency of Received Transmissions

Received Signal Strength

Current Analogue Head Value

View System Configuration

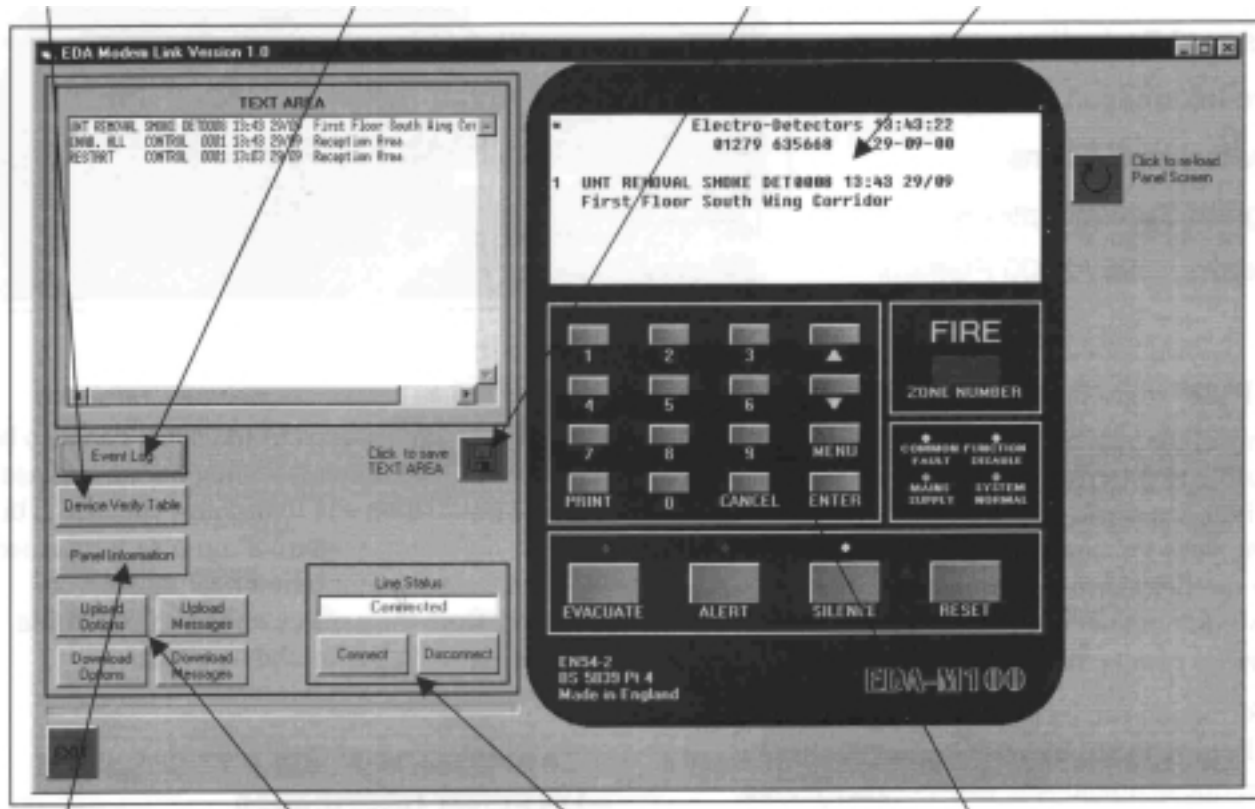
Baud Rate 2400

Device Information
All device details can be loaded in to the text area. These details include verify information, device types, analogue values. The scroll bars allow the complete set of data to be viewed.

Event Log
The complete event log will be down loaded into the text area. A maximum of 1000 events are stored. The scroll bars can then be used to view the whole area.

Save Data
Clicking on this option allows the text area to be saved to a file for future record. You will be prompted for a filename.

Current Status
This area shows exactly what appears on the screen as if you were viewing the actual control panel



Panel Information
All details of panel status and configuration for the complete system are downloaded to the text area.

Option / Messages
Text Location Messages and System Options can be retrieved from the system. Amendments can be made on the system provided an engineer is available to test the new set up.

Connect / Disconnect
To connect to a system a phone number must be entered in order to dial the appropriate system. It can also be connected via a wire cable for operation similar to a BMS system.

Keypad
By using the mouse to click on the buttons or pressing the associated key on the key board, operation of the panel can be achieved from a remote location. Some functions are locked out completely and others are only available through password protection.

Ordering Information

PC Software EDA-Q998
Panel Option including Modem EDA-600
Retro Fit Option including Modem EDA-610

Hardware Requirements PC :
PC Pentium P90 or higher
10 Mbytes free disk space
Windows 95 or later Modem
Control Panel :
Modem Fitted
Software Upgrade
Telephone Connection Point

The modem will only operate with the EDA-MIOO systems. Older EDA-M100 panels can be upgraded to allow for the modem option. A modem will be required to be fitted in the control panel and a phone line connected. The correct version of software will have to be fitted either in the main control panel or across the complete site.

Radio Fire Alarm System

.999 zones

.3000 devices

.Advanced Dual Frequency Protocol

.72 hr 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 8 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 has 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 7 Ah 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
- 500 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 functions

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

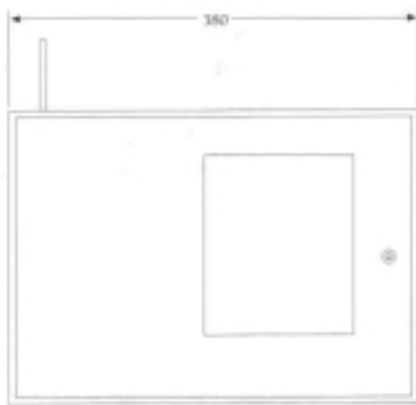
All necessary information is provided by an 8-line liquid crystal display, which illuminates when an event has occurred. Additional indication is provided by 9 LED's and a 3-digit zone alarm display.

SPECIFICATION

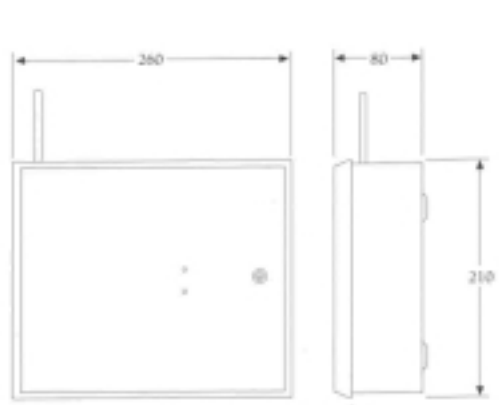
Maximum number of zones	999	Outputs	24V 0.5A
Maximum number of devices	3000	Auxiliary relays	1A changeover contacts
Devices include Detectors, Call Points, Transmitters, Sounders and Actuators		Inputs:	Wired call point circuit 10k ohm end of line resistor monitored for open and short circuit
Maximum number of repeater panels	30	Operating frequency	173.225 to 173.325MHz
Maximum number of repeater panels Wired sounder circuits	24V 0.5A	Modulation	NBFM
Output -selectable	Continuous/Pulsed	Output power (ERP)	10mW
Alarm indicators	Twin flashing red LED 3 digit 7 segment display providing initial zone number Fire message on LCD Amber LED	Operational Temperature	-10 to +60°C
Fault indicators	LCD providing cause and location of fault	Applicable Standards and Approvals:	
Event Log storage	500 events maximum	European Fire Alarm	EN54-2
Supply' Mains	230V 50Hz 75VA max	British Standards	BS 5839 Part 4
Battery	12V 7.2Ah sealed lead acid giving 72 hour standby	DTI Specification	MPT 1328/1344
External DC	24V 3.5A max	DTI Licence No.	RTD 3923
		EMC Standard	ETS RES 0908

Outline Drawing

Main Control Panel



Repeater Panel



All dimensions in mm

Ordering Information

Description	Standard	Wired Sounder Option
Standard Panel	EDA-M100	EDA-M105
Standard Panel with Printer option	EDA-M150	EDA-M155
Repeater Panel	EDA-M300	EDA-M305

In pursuance of a policy of continued improvement, the company reserves the right to change the design and specification without prior notice.

MILLENNIUM

Radio Fire Alarm System

- .20 zones
- .999 devices
- .Advanced Single Frequency Protocol
- .72 hr Standby
- .Compact Design
- .Site Programmable
- .Interface with the complete range of EDA products



DESCRIPTION

Our established Millennium Radio Fire Alarm System has now been complemented with the introduction of the EDA-M200 Control Panel. This panel is a less sophisticated version of the EDA-M100, still incorporating the same technology and ease of use as its elder brother.

The 20 zone compact panel is designed around a 16-bit processor and features surface mount technology. The panel benefits from well designed and clearly labelled operational features and are ideal for the smaller installation. Versatile software means that the user friendly MILLENNIUM will interface readily with most other hardwired systems. Configuration of the panel is performed using the PC interface and appropriate software. The backlit LCD provides excellent visual quality. 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 through a network of up to 4 radio repeater panels, although radio repeater panels can be substituted for extra control panels. Electro-Detectors has designed a repeater panel specifically for the purpose, retaining much of the functionality of the main panel. The radio repeater panel is even smaller than the main panel, indicating SUPPLY NORMAL and FAULT. It is designed to be sited in an inconspicuous position, requiring only a mains supply.

TECHNICAL INFORMATION

- 16 bit processor operating at 16 MHz
- Surface mount technology gives maximum reliability
- Highly visible 4 line LED backlit liquid crystal display
- Fully addressable for 999 devices
- Devices assigned to anyone of 20 zones
- Programming via 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
- Robust metal enclosure

SOFTWARE FEATURES

- Automatic configuration and set up facility
- Secure protocol with complex error checking
- 300-event log memory
- Non volatile storage of set-up information
- 3 level access code to assist in system security
- Intelligent learn modes to assist in commissioning
- Programmable sounder tones
- Sounder areas are uniquely programmable
- Programmable test modes

Optional Features

Expansion card to increase output capability to 4 sounder circuits and 4 auxiliary relays all individually programmable.

Controls

As with all EDA systems, simplicity of operation is a principal design feature. Four primary control buttons are provided, NAMELY EVACUATE, ALERT, SILENCE and RESET, which are accessed via the door key. Further access to device isolation, test routines and service modes is restricted by the use of passwords through an easy to use menu system.

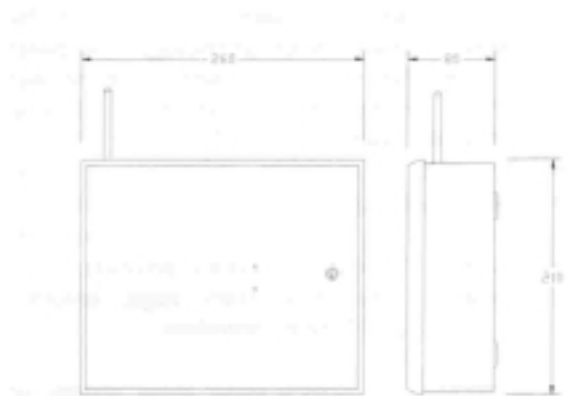
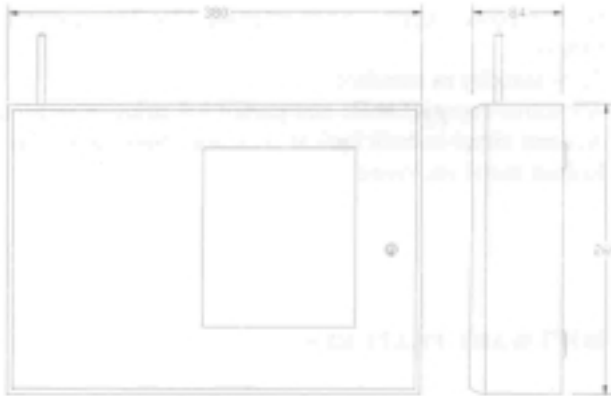
Indicators

All necessary information is provided by a 4-line liquid crystal display, which illuminates when an event has occurred. This indicates, for each device in fire or fault, the device number, device type and zone number (if in alarm) and scrolls for multiple events. Each zone in alarm is continually displayed on the top line of the LCD. Additional information is provided by LED's indicating SYSTEM NORMAL, MAINS SUPPLY, COMMON FAULT and FUNCTION DISABLED.

Specification

Maximum Number of Zones	20	Outputs Control Panel -	
Maximum Number of Devices	999	Sounder Circuits -	2 x 24V 0.5A
Devices includes Detectors, Call Points,		Auxiliary	2 x 1A Changeover contacts 2
Transmitters, Sounders and Actuators		Repeater Panel	x programmable outputs either
Maximum Number Panels Per System	3		sounder circuits or clean
Wired Sounder Circuits	24V 0.5A		contacts
Output -Selectable	Continuous / pulsed	Inputs	Wired call point monitored
Alarm Indicators	Twin Flashing Red LED		circuit
	Addressable Fire Message on	Operating Frequency	173.2250 MHz
	LCD indicating unit number,	Modulation	NBFM 10mW
	device types and zone number	Output Power (ERP)	
Fault Indicators	Amber LED	Operational Temperature	-10 to +60
	Addressable Fault Message on		OC
	LCD indicating unit number	Applicable Standards and Approvals	
	and fault type	European Fire Alarm	EN 54 -2
Event Log Storage Supply	300 Events Maximum	British Standards	BS 5839 Part 4
:Mains	230V 50Hz 75V A Max	DTI Specification	MPT 1344 Rill
:Battery	12V 7.2 Ah Sealed Lead Acid	DTI Licence No	3923 ETS RES
:External DC	giving 72 Hour Standby 24V	EMC Standard	0908
	3.5A Max		

Outline Drawing



All dimensions in mm

Ordering Information

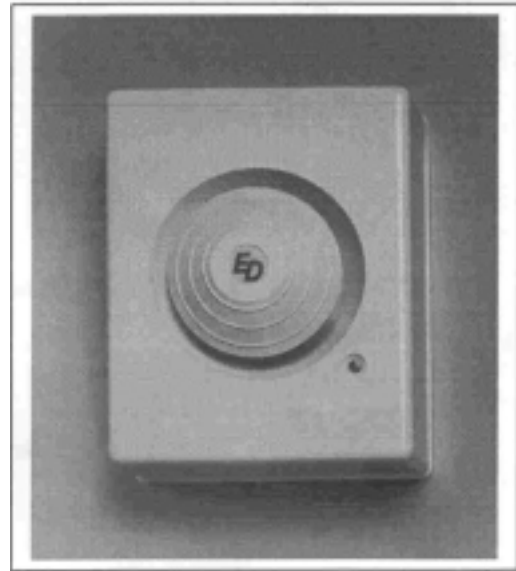
Description	Part Number
Standard Panel	EDA-M200
Radio Repeater Panel	EDA-M350

In the pursuance of a policy of continued improvement, the company reserves the right to change the design and specification without notice.

Radio Sounder / Output Module

EDA-A200 / EDA-A250

- .Totally Wire Free
- .Entirely Self Contained
- .14 Tones Selectable From Control Panel
- .5 Year Battery Life
- .Adjustable Sound Level to maximum of 105dB
- .Optional Callpoint Input
- .Optional Door Closer Interface



DESCRIPTION

Designed to complement the range of EDA Radio Fire Alarm equipment, the EDA-A200 electronic sounder is powered entirely by internal batteries, controlled and monitored by radio, producing up to fourteen different sound tones at a sound level equivalent to that of a normal hard wired electronic sounder.

In normal operation the sounder continuously listens via its built in radio receiver to any instruction emanating from its controlling panel. Once operating it continues to listen for further instructions to change tone or silence.

To ensure that the integrity of the communication link is maintained, frequent transmissions are made by the sounder to the control panel so that in the unlikely event of the radio signal failing to reach the panel a fault is reported within one hour. Other coded transmissions are made to signal faults including unit removal, battery low, receiver failure, and where external devices are connected to it, a fault in that wiring.

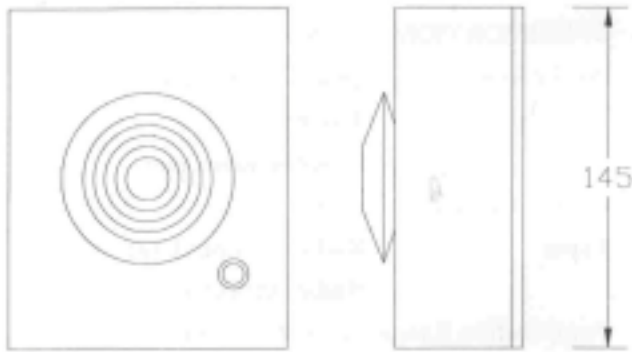
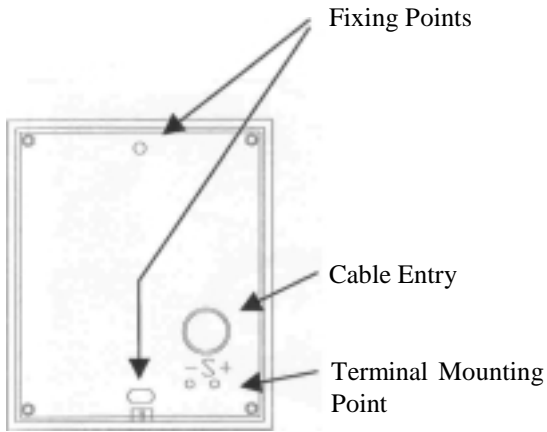
The unit is fully addressable and can be assigned to a particular area allowing phased evacuation to be incorporated into the system.

SPECIFICATION

Power source	Dual lithium cells 4 years.
Battery life	(Based on nominal use)
Battery Capacity	15Ah
Types	Radio Sounder Unit Radio Actuator
Temperature Range	-10C to + 60C
Construction	
-Casing	Injection Moulded U.V. Stabilised ABS Plastic Available in Red or White Other colours optional
-Electronics	Dual Circuit Board Surface mount receiver
-Options	Call point Connection External/Remote Antenna Door Release Interface Auxiliary Output for Alarm

ORDER CODES

EDA-A200	Radio Electronic Sounder (White)
EDA-A205	Radio Electronic Sounder (Red)
EDA-A250	Radio Actuator / Output Module



Sounder Base Outline

All dimensions in mm

OPTIONS

EDA-A200 Radio Electronic Sounder (White)
 EDA-A250 Radio Actuator (Auxiliary Output)

- Add 1 for callpoint input connection*
- Add 2 for External/ remote antenna
- Add 5 for colour Red
- Add 10 for Auxiliary Output
- Add 20 for Extension Sounder Driver Output*

EDA-A900 Radio Extension Sounder** Mains
 EDA-AOI0/1 Interface Relay for Mains operated
 Sirens or Door releases

Note .A call point input cannot be used if a sounder is required to drive an extension sounder
 ..Only the colour option is available on Extension Sounders

TECHNICAL INFORMATION

Conforms to appropriate sections of BS5839 and EN54

Powered by two independent lithium cells

Main Battery -type D cell

Standby Battery -type AA cell

LED indicator for alarm and fault conditions

Internal magnetic reed switch to reset unit

Unit Numbers 1 -255

99 Selectable Sounder Areas

Standard Tones -Low Pitch
 High Pitch
 Slow Sweep
 Warble
 4 x Intermittent Tones
 8 x Class Change Tones

Volume 105 -85 dBA Internally adjustable

Auxiliary Output Clean contact closes on Alarm
 Switch rating IA @ 24V

Radio Specification

DTI Specification MPT 1344
 Licence No. Ril 3923
 Frequency 173.2250 MHz
 Modulation NBFM
 Deviation +/- 1.5KHz 1
 Transmitter Power mW ERP
 Response Time 1 second

GENERAL INFORMATION

Weight 350g (approx.)

Dimensions (Including Base)

Height 145mm

Width 115mm

Depth 65mm

Indications High intensity clear RED
 in alarm, flashes in fault
 and test modes

Fixing Holes 2x 4mm (No.6 Screws) 2
 Terminal Capacity x 1.5mm²

Cable Entry 20mm Diameter

Rear entry only

Finish White or Red Polished
 Colours Optional