

Radio fire alarm systems have come of age with the introduction of Electro-Detectors' Analogue Addressable Millennium EDA system. The system allows device communications on one frequency and panel communications on a separate frequency. The design philosophy behind Millennium was to develop a powerful and intelligent system that anticipates all eventualities. This in turn gives the system designer a flexible radio solution at his disposal to meet the demands of the most comprehensive installation. All elements of the Millennium EDA system conforms to the relevant section of 855445/5839 and EN54 and is CE approved.

Since radio fire alarms were first introduced Electro-Detectors has been at the forefront of research and development into the safe incorporation of technological advances made in the field of component miniaturisation.

MILLENNIUM



Control Equipment

At the heart of the Millennium EDA system is a compact control panel designed around a 16-bit processor and featuring surface mount technology. Capable of supporting 3000 analogue devices, the panel benefits from well designed and clearly labelled operational features. Versatile software means that the Millennium EDA system will interface readily with most other hardwired systems and is user friendly. Programming of analogue 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.

Detector Units

Each analogue Millennium detector unit is powered by two lithium batteries, one providing back up supply to the other. The batteries are monitored throughout their life and any impending failure is pre-empted by an early warning giving a minimum of 60 days normal use before the failure occurs.

The unit sends a verification signal at regular intervals to confirm its communication path. Should any fire or fault condition be detected then that information is transmitted immediately.

The LED on the detector will flash during a fire or fault condition and for 15 minutes afterwards unless the unit is reset manually within that time. Each unit has an internal sounder to give local indication of fire. Each detector has the facility for a remote unit with the wiring between them being constantly monitored by the transmitter unit.

Optical Smoke Detector EDA-R300

The detector operates by detecting the scatter of a pulse of infrared light in the presence of smoke. The use of pulse techniques and sophisticated electronic circuitry provides a sensitive detector with low current consumption and ensures freedom from false alarms.



Ionisation Smoke Detector EDA-J300

Using a dual ionisation chamber incorporating less than 0.7 uCi Americium 241, this detector operates by measuring the change in ionisation current caused by smoke entering the chamber. This type of detector detects both visible and invisible smoke and is particularly suitable for protection of areas where volatile material is present.



Rate of Rise Heat Detector EDA-D300

The rate of rise heat detector is a sensitive device capable of detecting small but rapid changes in temperature. The detector may be used in place of a smoke detector where the normal environment frequently contains smoke, for example, tobacco smoke or engine fumes. The detector incorporates an upper temperature alarm of 58 C Conforming to response grade 1 category of 855445 part 5.



Fixed Temperature Heat Detector EDA-S300

The detector incorporates a temperature sensitive semi-conductor, which senses a rise in the ambient temperature and operates at a pre-set value. Available at 65.(and 75.(conforming to the response grades 2 and 3 of 855445 respectively. For buildings with higher ambient temperatures e.g. boiler houses, detectors are available at 100 C (But the radio transmitter should be sited outside the high temperature area.

Call point EDA-C200

The callpoint is a frangible type 855839 part 2 that is operated by breaking the glass. The transmitter is electrically similar to the detector unit but is housed in a rectangular case for mounting directly onto a wall. An LED indicator is provided and the reset is achieved using a magnet to operate the internal reed switch. A test key with a magnet attached is provided.



Transmitter Unit EDA- T200

The unit is provided to interface other types of trigger devices such as beam detectors, air conditioning duct probes, aspiration systems or gas extinguishing systems into the Millennium EDA fire system. The interconnect wiring is fault monitored. On activation of the trigger device a signal will be sent to the main control unit-which will show the type of device and its location.

Sounder Unit EDA-A200

The unit is a self-contained electronic sounder incorporating both a radio transmitter and receiver requiring no external wiring. It contains two separate battery supplies, one acting as a backup to the other, with sufficient capacity for up to 5 years use under normal conditions. Tone adjustments are provided either by internal selections or by transmitted signals thereby enabling the sounder to provide several types of audio signal. Should a fault occur, the unit will be identified by its address and if available, its location. Specified as an option, the sounder can also provide a control signal to operate other equipment such as door release holders and remote signalling equipment that can be controlled independently of the sounder operation.



Applications / Installations

The Millennium Analogue Addressable EDA fire alarm system is suited to all types of proposed installation, however it is most commonly specified where one or more of the following constraints are present.

.Existing buildings where normal trigger circuits (i.e. zone or loop wiring) or alarm sounder circuits need to be hidden.

.Environments where the disruption caused by hard wiring is unacceptable.

.Buildings where the internal decoration is too ornate or valuable to be disturbed.

.Sites where it is necessary to link remote buildings into an integrated fire alarm system.

.New buildings where the architectural requirements dictate that all cable must be hidden, e.g. glass atriums.

.Temporary installations where the system needs to be installed and removed at a moment's notice.

Typical installations are hospitals, nursing homes, listed and heritage buildings, schools, colleges, theatres, leisure centres, airports, stations and hotels.

Existing alarm systems may also be interfaced to the Millennium EDA system, thus offering a cost-effective means of upgrading. The installation of a Millennium EDA system is rapid and non-disruptive. Only the control units require wiring to a power supply. All other components are self powered and can be installed directly onto walls and ceilings without prior preparation of cable channels. The base unit of each component can be detached and fitted in the appropriate location. The unit is programmed using the internal switches and then simply fitted to the base. All detector units have a common base fitting and are thus interchangeable.



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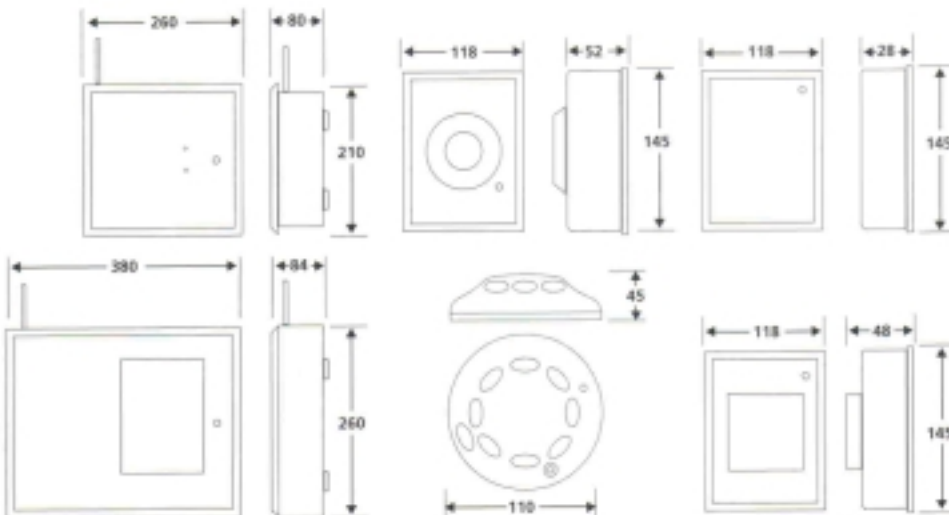
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