

ID50 002-445

Addressable Single loop Fire Detection

- LPCB approved to EN54 parts 2 and 4
- One loop capacity (99 sensors and 99 modules)
- 16 fire zones, 16 non fire zones
- Supports NOTIFIER advanced range of advanced detection
 - OptiPlex
 - HARSH™
 - HAZARD™
- 64 CBE rules
- Filter by device type
- Printer option
- Supports up to 72 hours backup
- Adjustable sensor sensitivity • Automatic High Test • Day / Night mode facility • Time programs
- Class Change
- “Autolearn” facility
- One man “walk test”
- 2 x 40 character backlit LCD
- Active and passive repeaters
- Programmable from the panel keypad or PC
- Supports loop powered sounders
- Two on board sounder circuits • Two on board configurable outputs • Non-fire function support

Introduction

The NOTIFIER ID50 series single loop intelligent fire alarm panels, have been developed for both installers and end users with efficiency in mind, offering a technically advanced range of facilities and functions while remaining easy to install, program and operate. Three models are available in the ID50 series. The compact ID50, the ID51 with internal printer option and a larger separate power supply and the ID52 with internal printer option, a larger separate power supply and added space for 72 hours battery back-up.

A full range of intelligent sensors, advanced detection products, input and output devices,



repeaters, mimic drivers and other peripherals complement the ID50 series to bring you the most complete and powerful single loop intelligent fire alarm panels in the market place.

System

The NOTIFIER ID50 series intelligent fire alarm panels are ideally suited for smaller system configurations such as schools, nursing homes, shopping units and offices. In more challenging environments such as stables, saw mills, food processing plants etc. detection is made possible by using the advanced range of sensors from NOTIFIER.

The ID50 series provides control of 99 heat, smoke or multi-criteria sensors and a combination of 99 call points, monitor modules, control modules, conventional interface modules, loop powered beam detectors, sounders and relays on a single loop.

In addition to the 16-zone fire/fault and 15 general status information LED's, the ID50 series have a 2 x 40 character, backlit LCD with variable viewing angle for easy reading. User-definable text messages can be read directly from the panel to provide details of fire and fault event locations.

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Advanced detection

™ HARSHTM sensor
(Hostile-Area Smoke Head)



The HARSHTM sensor provides early warning detection in hostile environments where traditional smoke detectors are not practical. Using a small air fan and a high-performance replaceable filter, air and smoke are drawn into a photoelectric sensing chamber, while unwanted airborne particulate and water mist are removed. This feature allows HARSHTM to operate in difficult applications, such as textile, paper mills, and food processing plants, which due to environmental conditions tend to cause nuisance alarms with standard smoke detectors. OptiPlex sensor (thermal & optical sensor in one) Today's building environments are varied and often change. Public areas change from being occupied to empty, offices are cleaned thus producing dust to become airborne, a storeroom is storing plastics one day and cardboard another. These environments are normal and whilst wanting to provide a safe environment for the occupants, unwanted alarms are very undesirable. The OptiPlex sensor from NOTIFIER combines superior optical smoke chamber design and thermistor heat elements with a sophisticated sensor algorithm to provide the next generation of multi sensors. Using advanced algorithms, OptiPlex continuously samples the environment and adjusts its sensitivity

and alarm thresholds automatically to provide optimum sensitivity for the conditions that exist at that time. Using both smoke and heat elements enable the sensor to respond quickly to a broad range of fire types whilst remaining unaffected by passing phenomena. This unique sensor, as well as utilising drift compensation, also provides two maintenance levels enabling preventative maintenance before the sensor reaches a maintenance-required level.

HAZARD™ sensor

Many industrial environments are potentially explosive. Often, in those environments, electronic equipment must be enclosed in expensive, heavy, explosion-proof housings, which create a physical barrier between the electronics and the explosive environment. The HAZARD™ sensor from NOTIFIER provides a cost-effective alternative to explosion-proof fire detectors by providing an electronic barrier. HAZARD™ is specifically designed to operate with intrinsic safe barriers, which limit power to the hazardous area to safe levels.

Configuration

The NOTIFIER ID50 series are self-contained, on-site programmable, intelligent fire alarm panels. They can be programmed either from the panel keypad or from a personal computer using the off-line Windows-based configuration tool. An "Auto-Learn" facility allows the user to install and commission a standard system with a minimum of effort.

The panel software can be upgraded on site via a personal computer using the NOTIFIER flash-programming tool, making it very easy to update existing sites with the latest features.

The ID50 series software allows the system designer to group addressable sensors or modules into 16 zones. Output control actions may be grouped by alarm "patterns" and, if required, enable individual addresses to be activated by specific inputs or groups of inputs. This significantly simplifies configuration, reducing the time it takes to set up a complete system, and this allows actions in the event of fire to be customised using powerful input and output configurations to suit specific applications. Alternatively, the default mode can be used which gives the basic protection required by most safety standards to achieve a near instant functional system, suitable for emergency retrofit applications.

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System security and integrity is an important aspect of the ID50 series. An optional tamper switch can be installed to protect against unauthorised cover removal. Furthermore, user controls on the front panel are protected by up to 10 individually configurable passwords making it virtually impossible for unauthorised people to access the panel and its manual controls and change the system configuration. Alternatively, the key-switch can be used to enable/disable level 2 access.

All configuration data is retained in non-volatile memory and is, therefore, protected against complete loss of the power supply.

The models

ID50



With A compact enclosure (380mm x 365mm x 110mm) and a single PCB with on-board power supply (1.5A), the ID50 provides the user with an easy to install/maintain Fire Alarm System.

ID51

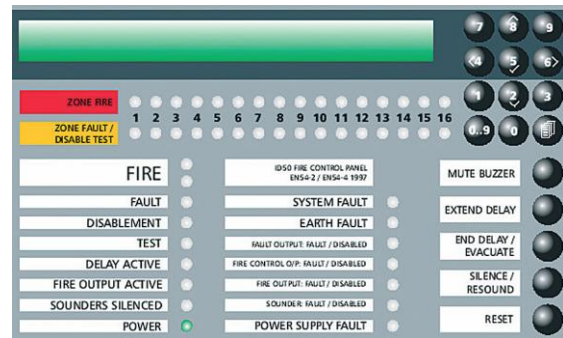


The ID51 is housed in a slightly larger enclosure (500mm x 400mm x 110mm) than the ID50 to accommodate for an internal mounted printer. A larger separate power supply (3A) is fitted in the ID51 to cater for the more power hungry applications.

ID52



The ID52 is housed in a large enclosure (500mm x 620mm x 208mm) to accommodate for an internal mounted printer and space for up to 42AH batteries for 72 hours battery backup. A larger separate power supply (3A) is fitted in the ID52 to cater for the more power hungry applications and to provide enough power to support 72 hours of battery (42AH) backup should the mains AC power fail. Two front covers are provided on the ID52. One is fitted at the top part of the enclosure and one is fitted at the bottom part of the enclosure, thereby allowing for easy installation and maintenance of the panel, printer and batteries.



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Repeater and Mimic Driver

The IDR Series repeaters and mimic drivers complement the ID Series intelligent fire alarm panels. By placing repeaters and/or graphical mimic display panels at strategic points in the facility – such as nurse stations, floor landings, gatehouse or control rooms – valuable time can be saved when identifying the location of a fire and/or evacuating the building.

The IDR series repeater panels combine a compact design with a 2 x 40 character LCD. The LCD replicates the display on the ID50 series and uses the same, simple, menu-driven user interface. The control buttons and keys on the repeaters enable the operator to navigate through the menu options and event displays. The nine LED indicators provide the user with a quick summary of the general system status. The repeater's compact design makes it very easy to install and commission in either surface mount or flush applications. The repeaters can store up to 150 most-recent events, therefore making commissioning very easy. Two models are available:

a) IDR2A Active Repeater:



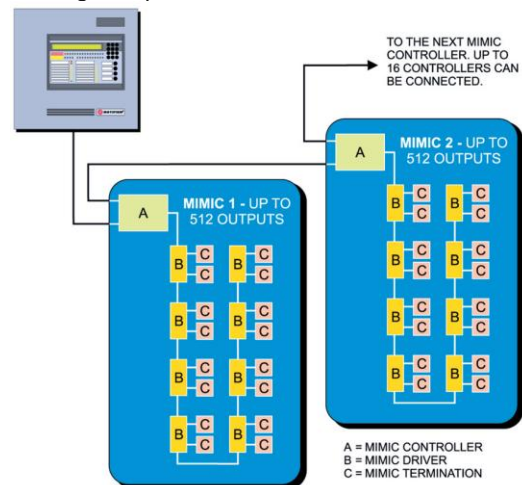
The IDR2A Active repeater will repeat the LCD & LED indications on the main fire alarm panel and allow the operator to command the system using system control push- buttons such as Mute Buzzer, Accept, Evacuate, Silence Sounders, Resound Sounders and Reset. The following, configuration and test functions are provided: Edit Normal message, Lamp Test, LCD Test and Buzzer Test. In addition to these standard test functions the IDR2A repeater has Power Diagnostics and a Push-button Test option. b) IDR2P Passive Repeater



The IDR2P passive repeater is an indication-only repeater with no controls. The LCD and the common system status LED's follow the indication on the main fire alarm panel. The IDR2P has the same configuration and standard test functions as the IDR2A active repeater.

Mimic

The mimic is a highly versatile product, which allows tremendous flexibility in configuring large numbers of system status LED's, relays and programmable digital inputs. Up to 16 mimics can be attached to the ID50 series via an RS485 communication link. Utilising the maximum capabilities of a full array of 16 mimics, 8192 LED or relay driven outputs, 896 high current outputs and 128 digital inputs are available.



Each mimic consists of a microprocessor based mimic control board and up to 8 flexible driver boards. Each driver board provides 64 LED or low current relay drivers, 8 high current driven outputs and 8 programmable digital inputs typically used for Mute, Lamp Test, Enable, Reset, Silence or other. Termination boards are also available to simplify wiring of LED's relays and other devices to each driver board

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