ID50 Series

Single Loop Intelligent Fire Alarm Panels

Section: Intelligent Fire Alarm Panels

GENERAL

The NOTIFIER ID50 series single loop intelligent fire alarm panels, has 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. 3 modules are available in the ID50 series, the basic ID50, the ID51 with printer option and the ID52 with printer option and space for 72 hours battery back up.

The ID50 series has a capacity of 99 sensors and 99 input / output modules on the single loop. The panels have been certified to EN54 parts 2 and 4 requirements and will be produced to various European languages and local requirements as options.

The ID51 & ID52 can be upgraded to 2 loops without the need to change back box.

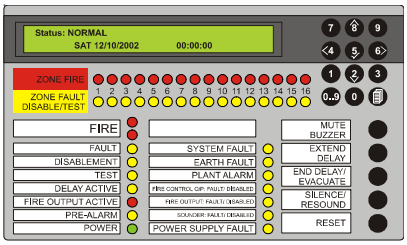


Intelligent Features

- ✓ Certified to EN54 parts 2 and 4
- ✓ One loop capacity (99 sensors and 99 modules)
- ✓ 16 fire zones, 16 non fire zones
- ✓ Supports avanced detection such as
  - OptiPlex
  - HARSH™
  - HAZARD™
- ✓ 64 CBE rules
- ✓ Filter by device type
- ✓ Printer option
- ✓ 72 hours backup option
- ✓ Extinguishing controls
- ✓ Adjustable sensor sensitivity
- ✓ Automatic High Test
- ✓ Day/Night mode facility
- ✓ Class Change
- ✓ Active and passive repeaters
- ✓ Programmable from the panel keypad or PC
- ✓ Two on board sounder circuits
- ✓ Two on board configurable outputs
- ✓ "Autolearn" facility
- ✓ Unconfigured device detection
- ✓ One man "Walk Test" by zone
- ✓ 512 event Historic Log
- ✓ Duplicate address fault monitoring
- ✓ Coincidence function
- ✓ Loop powered sounder support
- ✓ Non-latching "Plant Alarm" function
- ✓ Pulsing sounders support
- ✓ Output delay functions
- ✓ Remote "Reset" function
- ✓ 3 second response to manual call point activation
- ✓ Alarm verification algorithm
- ✓ Internal diagnostics program
- ✓ Fully on-site configurable
- ✓ Windows™ off-line configuration tool
- ✓ Loop and Battery calculator
- ✓ 20 characters of configurable zone text.
- ✓ 20 characters of configurable device location text
- ✓ Built-in language variants

User Interface

- ✓ 16 zone indications of fire and fault, disablement/test
- ✓ 2 Lines of 40 characters each on a backlit LCD
- ✓ Real time clock for time-stamping of events
- ✓ 11 configurable passcodes for access restriction
- ✓ Numeric and Navigation keys
- ✓ Plant Alarm (Non-Fire) LED indication



Housing

- ✓ Two part, mild steel cabinet
- ✓ Plastic moulded insert
- ✓ Customer ID label indent

Passive Repeater

- ✓ A compact mild steel housing incorporates all electronics for the fully monitored and addressable repeater unit
- ✓ A 2 x 40 character LCD indicates all information
- ✓ Incorporated status LED's for FIRE, FAULT, DISABLEMENT, POWER, PRE-ALARM, TEST, DELAY ACTIVE, SYSTEM FAULT and COMMUNICATIONS LOSS

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER.**
Charles Avenue, Burgess Hill, West Sussex, RH15 9UF. United Kingdom
Phone: +44 (0) 1444 230 300 Fax: +44 (0) 1444 230 888

ISO9001
Design, Manufacture and Supply to Quality Management Systems Certified to ISO9001:1994
Quality Systems Certificate No. 154 Assessed to ISO9001

- ✓ Any combination of up to 16 total Passive/Active repeaters may be connected to a single ID50 Series Panel which will require an RS485 Interface Module PCB to be fitted in order to communicate
- ✓ Requires a 24V DC source at 90mA max. for power
- ✓ Optional semi-flush mounting Bezel

Active Repeater

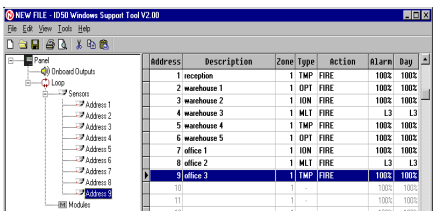
- ✓ A compact mild steel housing incorporates all electronics for fully the monitored and addressable repeater unit
- ✓ A 2 x 40 character LCD indicates all information
- ✓ Incorporated status LED's for FIRE, FAULT, DISABLEMENT, POWER, PRE-ALARM, TEST, DELAY ACTIVE, SYSTEM FAULT and COMMUNICATIONS LOSS are included, and control push-buttons for MUTE BUZZER, END DELAY/ EVACUTATE, SILENCE/RESOUND and RESET
- ✓ A keyswitch provides restricted access to control pushbuttons
- ✓ Any combination of up to 16 total Passive/Active repeaters may be connected to a single ID50 Series Panel which will require an RS485 Interface Module PCB to be fitted in order to communicate
- ✓ Requires a 24V DC source at 90mA max. for power
- ✓ Optional semi-flush mounting Bezel

Windows™ Configuration Tool

- ✓ Simple to use Offline Configuration
- ✓ Simple to use Output Configuration
- ✓ Simple to use Text entry

Note...

Example of the Windows™ Offline Configuration Tool below.



SYSTEM MODULES

The ID50 Series Panel is available with the following modules. Choose from the required modules below. Each kit is supplied with all required fixings and installation instructions.

- **002-455 ID50 Panel**

ID50 single loop intelligent fire alarm panel. Complete with 16 zonal LED's, sounder circuit, 1.5A power supply and space for 12Ah batteries. Black/Grey. LPCB Approved.



- **002-462 ID51 Panel**

ID51 single loop intelligent fire alarm panel. Complete with 16 zonal LED's, sounder circuit, separate 3A power supply, printer option and space for 12Ah batteries. Black/ Grey. LPCB approved.



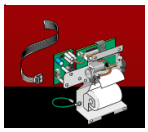
- **002-460 ID52 Panel**

ID52 single loop intelligent fire alarm panel. Complete with 16 zonal LED's, sounder circuit, separate 3A power supply, printer option and space for 42Ah batteries. Black/Grey. LPCB approved.



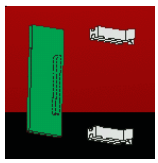
- **020-644-009 PRN-ID Printer Module Kit for ID51/ID52**

Includes thermal printer with power supply unit and roll of thermal paper.



- **020-553 RS485 Interface Module PCB Kit ID50**

Includes the RS485 Interface Module PCB required for repeater interfacing to the ID50 Panel. Plugs into dedicated socket on ID50 Panel PCB Assembly. Includes instruction sheet and fixings.



- **020-479 RS485 Interface Module PCB Kit ID51 / 52**

Includes the RS485 Interface Module PCB required for repeater interfacing to the ID51 / ID52 Panel. Plugs into dedicated socket on ID51 and ID52 Panel PCB Assemblies. Includes instruction sheet and fixings.



- **002-451 IDR-2P Passive Repeater**

Includes the complete passive repeater unit with all assembled electronics, Liquid Crystal Display (LCD), Fascia membrane and manual.



- **002-465 IDR-2P Passive Repeater, stainless steel**

Includes the complete passive repeater unit with all assembled electronics, Liquid Crystal Display (LCD), Fascia membrane and manual.



- **002-450 IDR-2A Active Repeater**

Includes the complete active repeater unit with all assembled electronics, Liquid Crystal Display (LCD), Control pushbuttons, Access control keyswitch, Fascia membrane and manual.



- **002-464 IDR-2A Active Repeater, stainless steel**

Includes the complete active repeater unit with all assembled electronics, Liquid Crystal Display (LCD), Control pushbuttons, Access control keyswitch, Fascia membrane and manual.



- **020-573 Mimic Control PCA Kit**

Supports up to 8 Mimic Drivers. Requires external 24Vdc power.



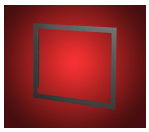
- **020-574 Mimic Driver & Terminal Board PCA Kit**

Provides 64 LED's or Relay outputs and 8 inputs. Up to 8 Mimic Drivers can be daisy-chained. Requires Mimic Control PCA kit and external 24Vdc power.



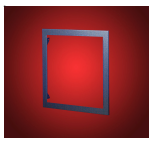
- **020-599-009 ID50 Semi-flush Bezel Kit**

Includes semi-flush mounting bezel for ID50 Black/Grey and instruction sheet.



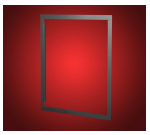
- **020-038-009 ID51 Flush Bezel Kit**

  Includes flush mounting bezel for ID51, Black/Grey and instruction sheet.



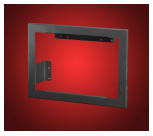
- **020-039-009 ID52 Semi-flush Bezel Kit**

  Includes flush mounting bezel for ID52, Black/Grey and instruction sheet.



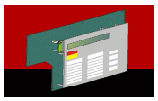
- **020-600-009 Flush Bezel for IDR Repeaters**

  Flush mounting bezel for IDR repeaters, Black/Grey.



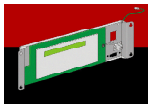
- **020-635-005 ID50 Replacement PCB Assembly Kit**

  ID50 replacement PCB kit, Including LCD and membrane (For issue 6 pcb and above).



- **020-649-004 ID51 & ID52 Replacement PCB Assembly Kit,**

  ID51 & ID52 Replacement PCB Assembly Kit, Including LCD and membrane.



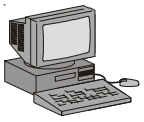
- **020-648 Replacement Power Supply**

  Replacement power supply (3A) for ID51/ID52.



- **020-562 ID50 Support Tool Kit**

  Including Offline Configuration software, on-line manual and interconnection cable assembly.



PANEL SPECIFICATIONS

Primary Input Power

- ✓ **ID50** - 230V, 50Hz, 1.0A
- ✓ **ID51** - 230V, 50Hz, 1.6A
- ✓ **ID52** - 230V, 50Hz, 1.6A

Sounder Outputs

- ✓ 2 Sounder outputs rated @ 30V 1A each

Sounder / Volt-free Outputs

- ✓ 2 Sounder / Volt-free outputs rated @ 30V 1A

Note...

Default as general fire and fault relay contacts.

Open - Collector Outputs

- ✓ 2 configurable outputs rated together @ 60mA total output

Auxiliary Output

- ✓ 24V Auxiliary Output rated @ 250mA

Power Supply / Battery Charger

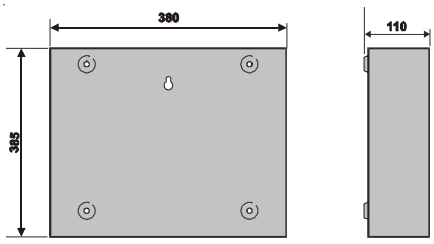
- ✓ **ID50 -** Maximum 1.5A total output, 0.5A for battery charger, supporting 12Ah batteries to EN54
- ✓ **ID51/52** - Maximum 3A total output, 2.2A for battery charger, supporting 42ah batteries to EN54
- ✓ Maximum of 1A available in alarm for sounders etc.

Digital Input

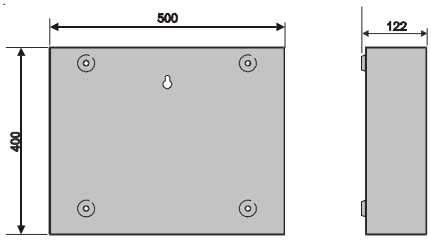
- ✓ 1 configurable input defaulting to Level 2 access control

Dimensions

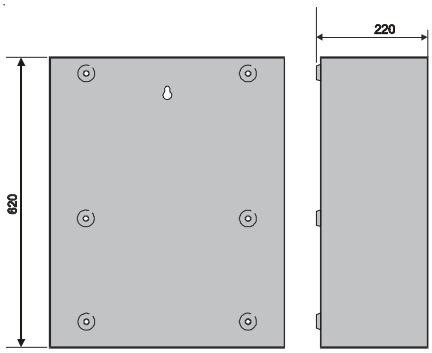
ID50



ID51



ID52



Note...

All dimensions are in Millimetres

Weight

- ✓ **ID50** - 6kg without batteries.
- ✓ **ID51** - 9.5kg without batteries.
- ✓ **ID52** - 15.5kg without batteries.

Battery Space

- ✓ **ID50** - Maximum 2 x 12V, 12Ah batteries
- ✓ **ID51** - Maximum 2 x 12V, 12Ah batteries
- ✓ I**D52** - Maximum 2 x 12V, 42Ah batteries

Cable Access

- ✓ **ID50** - 16 x 20mm knockouts in top of cabinet
- ✓ **ID51** - 25 x 20mm knockouts in top of cabinet
- ✓ **ID52** - 25 x 20mm knockouts in top of cabinet

Environmental Limits

- ✓ Climatic Classification :
  3K5, (IEC 721-2-3)
- ✓ Operating Temperature :
  -5° C to +45° C
- ✓ Humidity :
  5% to 95% R.H.
- ✓ Panel Sealing :
  IP 30, (EN 60529)

REPEATER SPECIFICATIONS

Primary Input Power

- ✓ 18 - 32V DC (+10%, -15%)

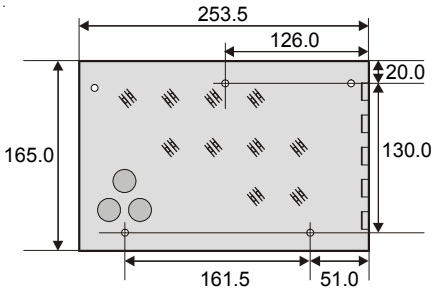
Current Consumption

- ✓ 90mA rated @ 24V DC

Communications

- ✓ RS485

Dimensions



Weight

- ✓ 750g

Cabling

- ✓ Maximum 1200 metres communications cable with 150R terminating resistors at both ends

Cable Access

- ✓ 5 x 20mm knockouts in top of cabinet
- ✓ 3 x 20mm knockouts in back of cabinet

Environmental Limits

- ✓ Climatic Classification :
  3K5, (IEC 721-2-3)
- ✓ Operating Temperature :
  -5° C to +45° C
- ✓ Humidity :
  5% to 95% R.H.
- ✓ Panel Sealing :
  IP 30, (EN 60529)

CONTROLS AND INDICATORS

Led Status Indicators

- ✓ FIRE
- ✓ DISABLEMENT
- ✓ TEST
- ✓ BUZZER MUTED
- ✓ PLANT ALARM or FAULT OUTPUT FAULT / DISABLED (Configurable)
- ✓ DELAYED MODE
- ✓ RELAY DISABLED
- ✓ POWER
- ✓ FAULT
- ✓ POWER SUPPLY FAULT
- ✓ EARTH FAULT
- ✓ SYSTEM FAULT
- ✓ SOUNDER FAULT
- ✓ SOUNDERS DISABLED
- ✓ SOUNDERS SILENCED or PRE-ALARM (Configurable)
- ✓ Individual FIRE and FAULT / DISABLED / TEST LED's per zone

Membrane Push-button Controls

- ✓ RESET
- ✓ EXTEND DELAY
- ✓ MUTE BUZZER
- ✓ SILENCE / RESOUND
- ✓ END DELAYS / EVACUATE

Configuration and Selection Keys

- ✓ 12-Key Numeric / Navigation Keypad when used in conjunction with the Shift key
- ✓ 8^ , 2v , <4 and 6> Navigation Arrows
- ✓ 5✓ (Select) Push-button
- ✓ 0..9 (Shift) Push-button for numeric functions
- ✓ (Access Code Prompt) Push-button

LCD Display

- ✓ Alphanumeric 80 Character (2 x 40) Backlit Display

SYSTEM CAPACITY

Intelligent Signalling Line Circuits (SLC)

- ✓ 1 Loop per panel

Number of Zones

- ✓ 16 Zones of Fire Detection per panel
- ✓ 16 Zones of Non-Fire (Plant Alarm) per panel

Intelligent Sensors

- ✓ 99 Intelligent Sensors per loop

Addressable Modules

- ✓ 99 Addressable Monitored / Control Modules per loop