ID60 Series

Single Loop Intelligent Fire Alarm Panels

Section: Intelligent Fire Alarm Panels

GENERAL

The NOTIFIER ID60 Single Loop intelligent fire alarm panel, has been developed for both installers and end users with efficiency in mind, offering a technically advanced range of facilities and functions whilst remaining easy to install, program and operate. The ID60 panel is built and tested with the most sophisticated equipment available to ensure the highest quality and excellent reliability.

The ID60 supports NOTIFIER's unique Very Intelligent Early Warning (VIEW™) technology. Combined with the patented AWACS™ (Advance Warning Addressable Combustion Sensing) and DIG (Dynamic Intelligent Grouping) algorithms, the ID60 provides the most cost-effective, stable and reliable early warning system without the need to use costly aspirating detection sub systems.

The ID60 Single Loop Intelligent Fire Alarm Panel meets EN54 parts 2 & 4.
The ID61 & ID62 can be upgraded to 2 loops without the need to change the back box.

Intelligent Features

- ✓ EN54 parts 2 and 4 compliant
- ✓ One loop capacity (99 sensors and 99 modules)
- ✓ 16 fire zones, 16 non fire zones
- ✓ Supports advanced detection such as
  - VIEW™
  - OptiPlex
  - HARSH™
  - HAZARD™
- ✓ 64 CBE rules
- ✓ Filter by device type
- ✓ Printer option
- ✓ 72 hours backup option
- ✓ 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.

Analogue Loop Devices Support

- ✓ Type A1, A1R BS Heat Sensors
- ✓ Low-Profile Optical Sensors
- ✓ Low-Profile Ionisation Sensors
- ✓ Loop Powered Beam Detector
- ✓ Manual Call Points
- ✓ Analogue Input Modules
- ✓ Analogue Output Modules
- ✓ Loop Powered Sounders
- ✓ Conventional Detector Interface Module

Advanced VIEW™ Support

- ✓ Revolutionary Point Laser detection.
- ✓ Advanced AWACS™ algorithms differentiate between smoke and non-smoke signals
- ✓ 99 VIEW™ sensors per loop capability
- ✓ 9 levels of alarm sensitivity from 0.1% to 3.24% per metre obscuration, per sensor
- ✓ 9 levels of pre-alarm sensitivity from 0.07% to 1.63% per metre obscuration, per sensor
- ✓ Multi-device algorithm, uses nearby sensors in alarm determination
- ✓ Maintenance alert
- ✓ Air quality reference detection
- ✓ Dynamic grouping of up to 99 VIEW™ sensors
- ✓ Addressable operation pinpoints the fire location
- ✓ No moving parts to fail or filters to change

ISO9001
Design, Manufacture and Supply to Quality Management Systems Certified to ISO9001:1994

LPCB

UKAS QUALITY MANAGEMENT 007

Quality Systems Certificate No. 154
Assessed to ISO9001

Advanced Optiplex Support

✓ Self optimising Optical/ Thermal sensing technology combined in one sensor

✓ 5 Smoke sensitivity levels, two self optimising with heat only setting
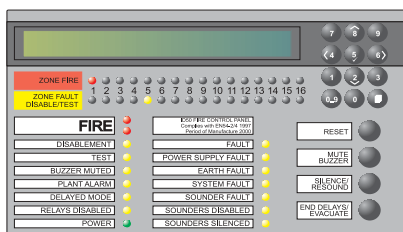
HARSH™ Sensor Support

✓ Operates as standard optical sensor in "dirty" environments, with no loss of smoke detection performance

✓ Dual filters for immunity to nuisance alarms

✓ Resistant to problems associated with water droplets, visible dust and fibres

✓ Intake fan motor, power availability and filter state fully monitored

HAZARD™ IS Sensor Support

✓ BASEEFA approved to EEX ia IIC T5.

✓ Zone 0 hazardous environment installers

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 pass codes 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

✓ An maximum combination of 16 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

✓ A maximum combination of 16 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 onfiguration

✓ Simple to use Output configuration

✓ Simple to use Text entry

Note...

Example of the Windows™ Offline Configuration Tool below.

SYSTEM MODULES

The ID60 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.

● **002-456-xxx ID60 Series Panel**

002-456 - English, Spanish, Portuguese, Icelandic, Italian.
xxx-xxx-002 - English, German, Dutch, French.
xxx-xxx-003 - English, Swedish.

● **002-463-xxx ID61 Series Panel**

020-463 - English, Spanish, Portuguese, Icelandic, Italian.
xxx-xxx-002 - English, German, Dutch, French.

● **002-461-xxx ID62 Series Panel**

002-461 - English, Spanish, Portuguese, Icelandic, Italian.
xxx-xxx-002 - English, German, Dutch, French.

● **020-644-009 PRN-ID Printer Module Kit for ID61/ID62**

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

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

Includes the RS485 Interface Module PCB required for repeater interfacing to the ID60 Series Panel. Plugs into dedicated socket on ID60 Series Panel PCB Assembly. 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.

● **002-450 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.

- **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 ID60 Semi-flush Bezel Kit**

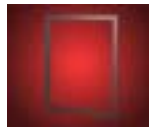 Includes semi-flush mounting bezel for ID60 Black/Grey and instruction sheet.

- **020-038-009 ID61 Flush Bezel Kit**

  Includes flush mounting bezel for ID61, Black/Grey and instruction sheet

- **020-039-009 ID62 Semi-flush Bezel Kit**

  Includes flush mounting bezel for ID62, Black/Grey and instruction sheet.

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

  Flush mounting bezel for IDR repeaters, Black/Grey

- **020-638-001 ID60 Replacement PCB Assembly Kit**

  ID60 replacement PCB kit, including LCD and membrane

- **020-650-001 ID61 & ID62 Replacement PCB Assembly Kit,**

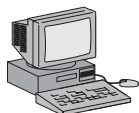 ID61 & ID62 Replacement PCB Assembly Kit, Including LCD and membrane.

- **020-648 Replacement Power Supply**

  Replacement power supply (3A) for ID61/ID62.

- **020-562 ID60 series Support Tool Kit**

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

PANEL SPECIFICATIONS

Primary Input Power

- ✓ **ID60** - 230VAC, 50Hz, 1.0A
- ✓ **ID61** - 230VAC, 50Hz, 1.6A
- ✓ **ID62** - 230VAC, 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

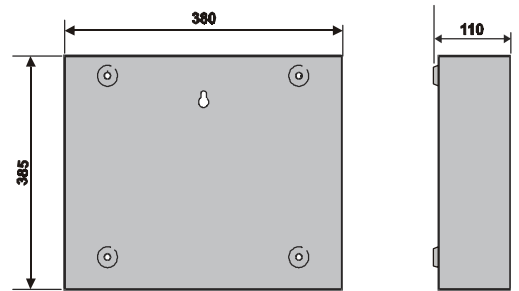### Power Supply / Battery Charger

- ✓ **ID60 -** Maximum 1.5A total output, 0.5A for battery charger, supporting 12Ah batteries to EN54.

- ✓ **ID61/62** - Maximum 3A total output, 2.2A for battery charger, supporting 42ah batteries to EN54

- ✓ Maximum of 1A available in alarm for sounders etc.
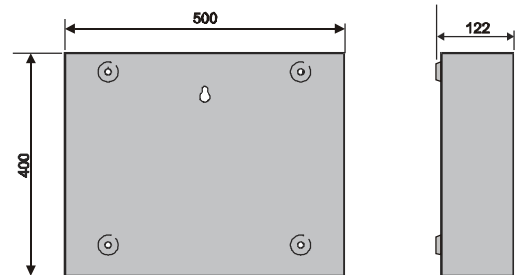
Digital Input

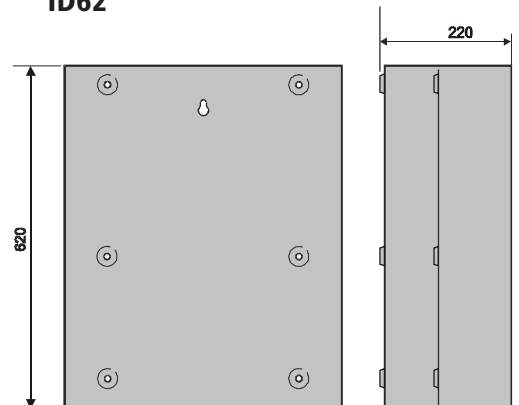- ✓ 1 configurable input defaulting to Level 2 access control.

- **Dimensions**

ID60

ID61

ID62

Note...

All dimensions are in Millimetres

Weight

- ✓ **ID60** - 6kg without batteries.
- ✓ **ID61** - 9.5kg without batteries.
- ✓ **ID62** - 15.5kg without batteries.

Battery Space

- ✓ **ID60** - Maximum 2 x 12V, 12Ah batteries.
- ✓ **ID61** - Maximum 2 x 12V, 12Ah batteries
- ✓ I**D62** - Maximum 2 x 12V, 42Ah batteries

Cable Access

- ✓ **ID60** - 16 x 20mm knockouts in top of cabinet.
- ✓ **ID61** - 25 x 20mm knockouts in top of cabinet.
- ✓ **ID62** - 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

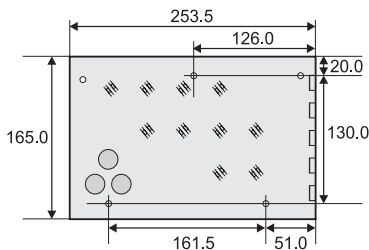### Primary Input Power

- ✓ 18 - 32V DC (+10%, -15%).

Current Consumption

- ✓ 90mA rated @ 24V DC.

Communications

- ✓ RS485.

Dimensions

253.5
126.0
20.0
165.0
130.0
161.5
51.0

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
- ✓ DELAYED MODE
- ✓ RELAY DISABLED
- ✓ POWER
- ✓ FAULT
- ✓ POWER SUPPLY FAULT
- ✓ EARTH FAULT
- ✓ SYSTEM FAULT
- ✓ SOUNDER FAULT
- ✓ SOUNDERS DISABLED
- ✓ SOUNDERS SILENCED
- ✓ Individual FIRE and FAULT / DISABLED / TEST LED's per zone

Membrane Push-button Controls

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

Configuration and Selection Keys

- ✓ 12-Key Numeric / Navigation Keypad when used in conjunction with the Shift key.
- ✓ 🔘 , 🔘 , 🔘 and 🔘 Navigation Arrows
- ✓ 🔘 (Select) Push-button

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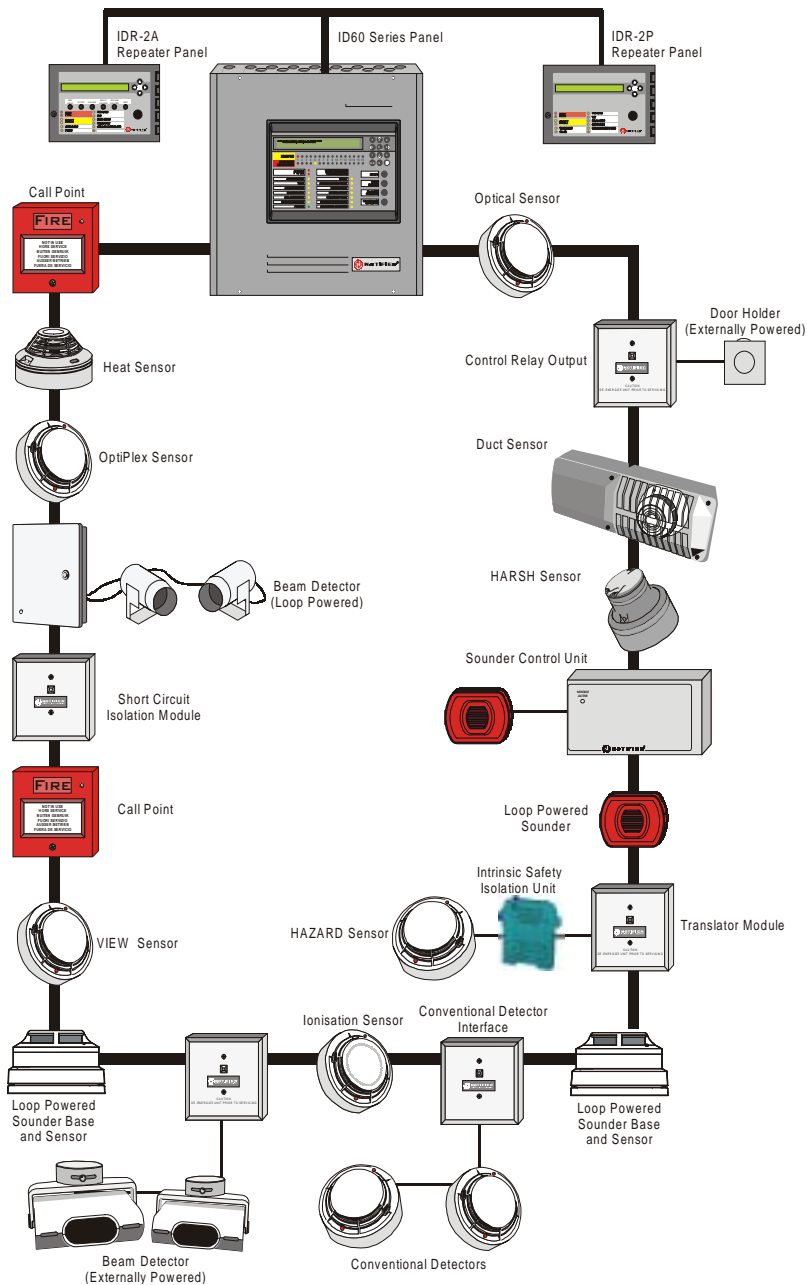- ✓ 16 Zones of Non-Fire (Plant Alarm) per panel

Intelligent Sensors

- ✓ 99 Intelligent Sensors per loop

Addressable Modules

- ✓ 99 Addressable Monitored / Control Modules per loop

ID60 PANEL FIRE CONTROL SYSTEM

Diagram labels:
- IDR-2A Repeater Panel
- ID60 Series Panel
- IDR-2P Repeater Panel
- Call Point
- Heat Sensor
- OptiPlex Sensor
- Beam Detector (Loop Powered)
- Short Circuit Isolation Module
- Call Point
- VIEW Sensor
- Loop Powered Sounder Base and Sensor
- Beam Detector (Externally Powered)
- Ionisation Sensor
- Conventional Detector Interface
- Conventional Detectors
- HAZARD Sensor
- Intrinsic Safety Isolation Unit
- Translator Module
- Loop Powered Sounder Base and Sensor
- Loop Powered Sounder
- Sounder Control Unit
- HARSH Sensor
- Duct Sensor
- Door Holder (Externally Powered)
- Control Relay Output
- Optical Sensor

COMPATIBLE SLC DEVICES

Model	Description
CPX-551E	Standard Ionisation Sensor
CPX-751E	Low Profile Ionisation Sensor
SDX-551E	Standard Optical Sensor
SDX-751E	Low Profile Optical Sensor
HPX-751E	HARSH Optical Sensor
FDX-551E	Type A1 Thermal Sensor
FDX-551HTE	Type BS Thermal Sensor
FDX-551RE	Type A1R Thermal Sensor
LPX-751	VIEW high sensitivity intelligent sensor
SDX-751TEM	OPTIPLEX Multi-criteria smoke & heat sensor
IDX-751	HAZARD intrinsically safe optical sensor
LPB-500	Loop Powered Beam Detector (TX/RX pair)
LBP-620	Loop Powered Beam Detector
M500KAC/GB	Manual Call Point
M500KACW	Weatherproof Manual Call Point
MMX-1E	Monitor Module
MMX-101E	Mini Monitor Module
MMX-102E	Micro Monitor Module
MMX-10	10 Way Monitor Module
ZMX-1E	Conventional Zone Monitor Module
CMX-2E	Control Module (Monitored or Relay)
PS2-CMX	Control Module With PSU and 2 Bell Circuits
CMX-10R	10 Way Relay Module
ISO-X	Standard Isolator Module
MRM-1(/DIN)	Mains Relay Module
B501	Standard Sensor Base
B524IE	Sensor Base With Standard Isolator
B524IEFT	Sensor Base With FET Isolator
B254RE	Sensor Base With Relay Output
B524FTXE	HARSH Sensor Base
ANS4	Addressable Loop Powered Sounder
ANSE4	Addressable Externally Powered Sounder
ABS4	Addressable Loop Powered Sounder Base
ABSE4	Addressable Externally Powered Sounder base
IBS3	Addressable Loop Powered Base Sounder with Built-in Sensor Base
AWS3/R	Addressable Loop Powered Wall Sounder Red
AWS3/W White	Addressable Loop Powered Wall Sounder White

Some devices may be under development.
Contact NOTIFIER for device availability.