ID3000

2 - 8 loop Intelligent Fire Alarm Panel

Section: Intelligent Fire Alarm Panels

GENERAL

The NOTIFIER ID3000 intelligent fire alarm panel offers a technically sophisticated range of facilities and functions whilst remaining easy to install, program and operate. Modern styling and a variety of aesthetic options are sure to win over facility owners and architects. It has been 3rd party certified to the current EN54 standards part 2 and 4.

A full range of intelligent sensors, advanced detection products, input and output devices, repeaters, mimic drivers, printers and other



peripherals complement the ID3000 to bring you the most complete and versatile fire alarm system in the market place.

The ID3000 panels can be networked together either as a true peer to peer network or in a Master / Slave inter link, extending the total capacity of the system to fit the largest applications.

The ID3000 is designed in a modular fashion to allow for a wide range of applications, facilitating installation and servicing whilst making the ID3000 very easy to tailor to the requirements of the application. The large LCD graphic provides easy to read and understand messages complying with the EN54 standard for primary user interfaces.

FEATURES

- **Intelligent Features**
  - ✓ Certified to EN54 parts 2 and 4
  - ✓ Up to 198 devices per loop (99 sensor and 99 modules)
  - ✓ Expandable from 2 to 8 loop capacity
  - ✓ Adjustable sensor sensitivity
  - ✓ Drift compensation
  - ✓ Network options
    - ID²net (Peer to Peer)
    - Master / Slave
  - ✓ Configurable day / night sensitivity adjustment
  - ✓ Addressable device LED blink control
  - ✓ Automatic or Manual "Loop Learn" options
  - ✓ Automatic device "high test" at configured time of day
  - ✓ "Walk Test" function by zone for efficient commissioning
  - ✓ On screen "test" tally (tested / untested count) for devices in zone walk test
  - ✓ Configurable "walk test" time limit
  - ✓ Autoprogram option
  - ✓ 600 event history file
  - ✓ Duplicate address fault monitoring
  - ✓ 2 optional user configurable communication ports
  - ✓ Dual pulse rate capability for outputs
  - ✓ Pulsing loop powered sounders capability with steady override
  - ✓ Non-alarm non-latching addressable device support for lower priority functions
  - ✓ Variety of Mounting options
  - ✓ Degraded mode of operation for processor failure
  - ✓ Automatic time control functions by day of week for "Control-by-Event" (CBE)
  - ✓ Time of day and day of week exclusions for "CBE"
  - ✓ Remote reset output capability for peripheral equipment
  - ✓ Configurable rapid response from manual call points (less than 3 seconds)
  - ✓ 255 Zone capacity per panel
  - ✓ Zone sub-division to cells for "CBE"
  - ✓ Coincidence detection configurable by zone or cell for "CBE"
  - ✓ Fire and fault verification delays configurable by address
  - ✓ Pre-defined device type characteristics

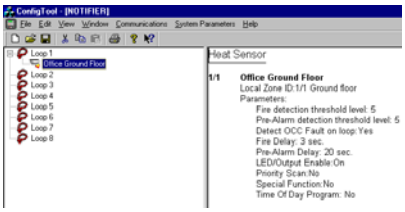
This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER.** 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

- ✓ Evacuate pushbutton used as input to "CBE" for user defined action
- ✓ Output device test activation by address
- ✓ Selective event log display or print by date and time
- ✓ Full configuration edit capability from panel or PC
- ✓ Multiple options for RS232 port protocol

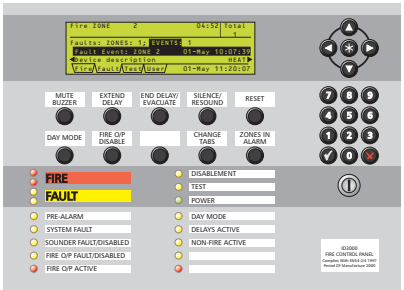
- **PC Support Tool**



- ✓ Windows™ operating system compatible
- ✓ System Wide project configuration for multi-panel networks
- ✓ Platform for multiple product support
- ✓ Integrated "error checking"

  Cut, Copy and Paste editing functions
- ✓ Multiple options for reporting and printing data
- ✓ Site specific user installation information embedded into PC configuration file
- ✓ On-line help file

- **User Interface**



- ✓ Large 240 x 64 pixel graphics display
- ✓ Configurable Zone and Individual Point location text
- ✓ Unique "TABulation" method of event categorisation, for simple navigation
- ✓ On screen QWERTY keyboard for simple text edit functions
- ✓ Clear and concise fascia layout
- ✓ Software adjustment of timekeeper clock speed
- ✓ Programmable passcode and security keyswitch for access restriction
- ✓ Optional integral thermal printer
- ✓ Optional Zonal indication LED's
- ✓ Intuitive operation
- ✓ Short-cut options for disablement, enablement, and end walk test

- **Modern Housing**
  - ✓ Choice of 5 cabinet sizes with expansion capability
  - ✓ Stylish moulded covers with high security option
  - ✓ Back Boxes supplied separately
  - ✓ Primary electronics supplied in chassis format for ease of installation
  - ✓ Optional lockable glazed door for access restriction
- **Optional secondary RS232 port (isolated)**
  - ✓ Graphics System Interface
  - ✓ Paging System Interface
  - ✓ 80-column Printer Interface
- **Optional RS485 port (isolated)**
  - ✓ Repeaters
  - ✓ Mimics
  - ✓ Panel Interlink (8 Panels)

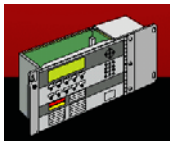
System Modules

The ID3000 is a flexible modular control panel, built from various option modules. Choose the combinations best suited to the particular application. Each module is supplied with required mounting screws, connection cables, washers etc. and installation instructions.

Basic Equipment kits

Note: Yuasa battery sizes are referenced unless otherwise stated.

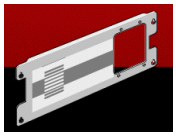
- **020-538 ID3000 Basic Equipment Kit**



Includes main chassis assembly, with hinged display, Base PCB containing two loop interfaces, microprocessor PCB containing relevant software and spare fuses.

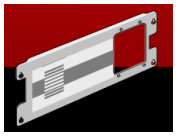
Extension chassis

- **020-559-001 Extension Chassis Kit. Zone 1-64**



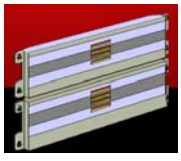
Includes extension chassis with LED display board for zones 1 to 64 to indicate fire and fault / disablement / test. Will also accept integral printer.

- **020-559-002 Extension Chassis Kit. Zone 65-128**



Includes extension chassis with LED display board for zones 65 to 128 to indicate fire and fault / disablement / test. Will also accept integral

- **020-612 Extension Chassis Kit. Zone 1-256**



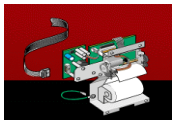
Includes 2 extension chassis with LED display boards for zones 1 to 256 to indicate fire, fault / disablement / test. Requires double extended backbox (standard or deep) and 256 Zone extension cover kits, 020-621-009. A printer module 020-471 cannot be added with this option.

- **020-708-009 Extension chassis with PRN-ID Printer Module Kit**



Includes extension chassis with integral printer fitted. The RS232 card is not required. Uses 1 panel COMMS port.

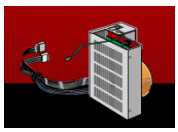
- **020-664-009 PRN-ID Printer Module Kit**



Includes thermal printer with power supply unit and roll of thermal paper. May be fitted to extension chassis kit 020-559-001, 020-559-002 or used as a spare. The RS232 card is not required. Uses 1 panel COMMS port.

Power supplies & accessories

- **020-648 PSU 3A Assembly Kit**



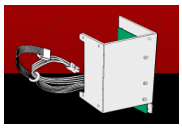
Includes complete power supply unit assembly, interconnection cables and spare fuses. Mounts behind the basic equipment chassis and charges up to 38Ah batteries.

- **020-579 Universal Power Supply Kit. 4.5A or 7A user selectable.**



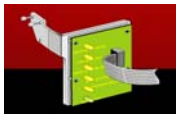
Includes complete power supply unit assembly, interconnection cables and spare fuses. Mounts inside any deep back box kit or the remote battery / PSU enclosure kit and charges up to 130Ah battery capacity. PSU DTP / Booster required in main chassis.

- **020-543 PSU TP / Booster Kit**



Includes complete PSU interface unit assembly, interconnection cables and spare fuses. Mounts behind the basic equipment chassis. Essential for use with 7A PSU.

- **020-548 PSU 7A Status Indication Kit**



This optional unit includes complete assembly and interconnection cables. Mounts on the side of the externally mounted Power Supply Unit Kit and gives status indication of the PSU.

- **020-541-009 78Ah Remote Battery / PSU Enclosure Kit**

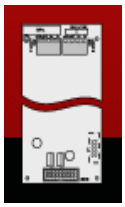


Floor mounted only back box with extra depth for additional battery space. Powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 78Ah. Compatible with PSU7A (020-579). PSU not included.

Dimensions 680mm(w) x 510mm(h) x 240.5mm(d)

Expansion boards

- **020-588 Dual Loop Module Kit (LIB)**



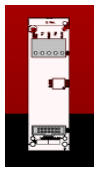
Includes PCB for additional 2 loops, and plug in cable connector. Max. three modules per panel. Maximum of 512 input devices per panel using standard LIBs.

- **020-549 Dual Enhanced Loop Module Kit (ELIB)**



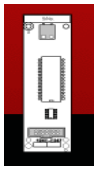
Includes PCB for additional 2 loops with on board standby microprocessor, and plug in cable connector. Max. three modules per panel. Only required where total number of input devices controlled by panel main microprocessor exceeds EN54 limitation of 512. ELIB may be mixed with standard LIBs in a panel.

- **020-478 Isolated RS232 Module Kit**



Includes PCB for isolated RS232 port for OEM interface, 80 column printer etc. Uses 1 panel COMMS port.

- **020-479 Isolated RS485 Module Kit**



Includes PCB for isolated RS485 port for peripherals such as repeaters. Uses 1 panel COMMS port.

- **020-647 ID²net Network Gateway Module (NGM)**



The NGM PCB plugs directly into the processor PCB in the ID3000. One NGM is required per ID3000. Up to 32 ID3000 can be networked together.

- **020-643 PCA Dual port fibre optic interface**



The fibre optic interface PCB plugs directly into the NGM via a ribbon-cable. Two ports are available for fibre optic communication (left & right channel).

Repeaters & Mimic panels

- **002-452 IDR-6A Active Repeater**



Includes enclosure with electronics carried on the enclosure door. Requires external 18-32V dc. power supply and panel to be fitted with RS485 card 020-479. Finished in RAL 7021 extra fine texture. Optional Bezel kit, 020-600-009.

Dimensions 253.5mm(w) x 165mm(h) x 50mm(d)

- **020-573 IDR-M Mimic Control PCA Kit.**



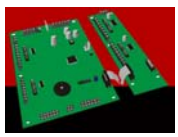
Mimic Driver board mounted on a discrete metal chassis. Up to eight Mimic Driver boards can be driven by one Control board.

- **020-574 Mimic Driver PCA Kit**



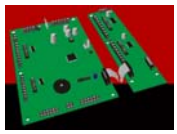
This comprises a Driver board and twoTermination boards each mounted on to individual metal chassis. The Control board communicates with up to eight Mimic Driver boards.

- **020-741 Kit IDR-CM Main PCB**



IDR-CM Compact Mimic driver. Provides 16 programmable LED outputs, common fire, fault, test and disablement outputs and power OK output. Accepts a keyswitch input to enable evacuate, silence, lamp test, mute and reset inputs. Expandable with up to 9 additional driver boards each providing 16 additional programmable outputs (020-742). Requires 24Vdc and RS485 connection.

- **020-742 Kit IDR-CME Expansion PCB**



IDR-CME Compact Mimic Expansion board. Provides 16 additional programmable LED ouputs. Requires Compact Mimic driver board (020-741).

Product literature and tools

- **020-558 Windows™ PC Support Tool Kit**



Includes "Off-line Configuration" software and electronic manuals on CDROM, interconnection cable assembly and installation instructions.

Back box & enclosure options

- **020-472-009 Standard Back Box Kit**



Basic back box powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 12Ah. Compatible with internal PSU3A or external PSU7A.

Dimensions 500mm(w) x 400mm(h) x 122mm(d)

- **020-473-009 Extended Back Box Kit**



Single "extended height" back box powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 17Ah. Suitable for use with single extension. Compatible with internal PSU3A or external PSU7A.

Dimensions 500mm(w) x 620mm(h) x 122mm(d)

- **020-474-009 Extended Deep Back Box Kit**



Single "extended height" back box with extra depth for additional battery space, powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 38Ah. Suitable for use with single extension. Compatible with internal and external PSU's.

Dimensions 500mm(w) x 620mm(h) x 220mm(d)

- **020-475-009 Double Extended Back Box Kit**



Double "extended height" back box powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 17Ah. Suitable for use with dual extension. Compatible with internal PSU3A or external PSU7A.

Dimensions 500mm(w) x 840mm(h) x 122mm(d)

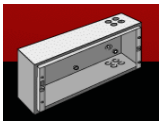
- **020-476-009 Double Extended Deep Back Box Kit**



Double "extended height" back box with extra depth for additional battery space, powder coated in RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 38Ah with chassis fitted. Suitable for use with dual extension. Compatible with internal and external PSU's.

Dimensions 500mm(w) x 840mm(h) x 220mm(d)

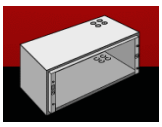
- **020-508-009 Standard Extension Back Box Kit**



Basic back box powder coated in RAL 7021 extra fine texture. Will hold batteries up to 17Ah.

Dimensions 500mm(w) x 220mm(h) x 122mm(d)

- **020-509-009 Deep Extension Back Box Kit**



Deep back box with extra depth for additional battery space, powder coated in RAL 7021 extra fine texture. Will hold batteries up to 38Ah.

Dimensions 500mm(w) x 220mm(h) x 220mm(d)

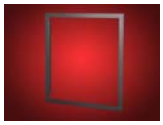
Covers & bezels options

- **020-038-009 Bezel Standard**



Semi-flush mount bezel for standard height back box. Finished in RAL 7021 extra fine texture.

- **020-039-009 Bezel Extended**



Semi-flush mount bezel for extended height back box. Finished in RAL 7021 extra fine texture.

- **020-040-009 Bezel Double Extended**



Semi-flush mount bezel for double extended height back box. Finished in RAL 7021 extra fine texture.

- **020-480-009 Main Cover Kit**



Includes moulding, hinges for user interface door, push clip fasteners, Notifier label and hex fixing tool. Finished in RAL 7021 extra fine texture. Moulding adds 31mm to overall depth of back box.

- **020-513-009 Main Cover High Security Kit**



Includes moulding, hinges for user interface door, high security fasteners and Notifier label. Finished in RAL 7021 extra fine texture. Moulding adds 31mm to overall depth of back box.

- **020-481-009 Extension Cover Kit**



Includes moulding, hinges for user interface door, push clip fasteners and printer slot covering label. Finished in RAL 7021 extra fine texture. Moulding adds 31mm to overall depth of back box.

- **020-514-009 Extension Cover High Security Kit**



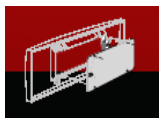
Includes moulding, hinges for user interface door, high security fasteners and printer slot covering label. Finished in RAL 7021 extra fine texture. Moulding adds 31mm to overall depth of back box.

- **020-621-009 256 Zone Extension Cover Kit**



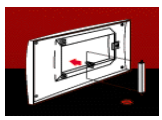
Includes sheet metal cover, push clip fasteners and hex fixing tool. Finished in RAL 7021 extra fine texture. For use with the 256 Zone Display Module Kit, 020-612.

- **020-485-009 Extension Cover Blanking Plate Kit**



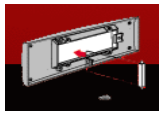
Blanking plate kit for extension cover moulding where no extension chassis is required. May be used for customisation such as mounting of plant switches. Finished in extra fine texture.

- **020-482 Main User Interface Door Kit**



Lockable user interface door kit for additional primary display level 2 access restriction and tamper resistance.

- **020-483 Extension User Interface Door Kit**



Lockable user interface door kit for tamper resistance to extension interface.

Controls and Indicators

- **Led Status Indicators**
  - ✓ FIRE
  - ✓ FAULT
  - ✓ PRE-ALARM
  - ✓ SYSTEM FAULT
  - ✓ SOUNDER FAULT/DISABLED
  - ✓ FIRE O/P FAULT/DISABLED
  - ✓ FIRE O/P ACTIVE
  - ✓ DISABLEMENT
  - ✓ TEST
  - ✓ POWER
  - ✓ DAY MODE
  - ✓ DELAYS ACTIVE
  - ✓ NON-FIRE ACTIVE
- **Membrane Switch Controls**
  - ✓ MUTE BUZZER
  - ✓ EXTEND DELAY
  - ✓ END DELAY/EVACUATE
  - ✓ SILENCE/RESOUND
  - ✓ RESET
  - ✓ DAY MODE
  - ✓ FIRE O/P DISABLE
  - ✓ CHANGE TABS
  - ✓ ZONES IN ALARM
- **Membrane Programming and Selection Keys**
  - ✓ 10-Key Numeric Keypad
  - ✓ ▼, ▲, ▶ and ◀ Navigation Arrows
  - ✓ ✓ and ✗ Pushbuttons
  - ✓ ✱ Pushbutton
- **LCD Display**
  - ✓ Graphic 240 x 64 pixel back-lit display (6 x 40 characters)
- **Keyswitch**
  - ✓ Level 2 Access Code Keyswitch

Panel capacity

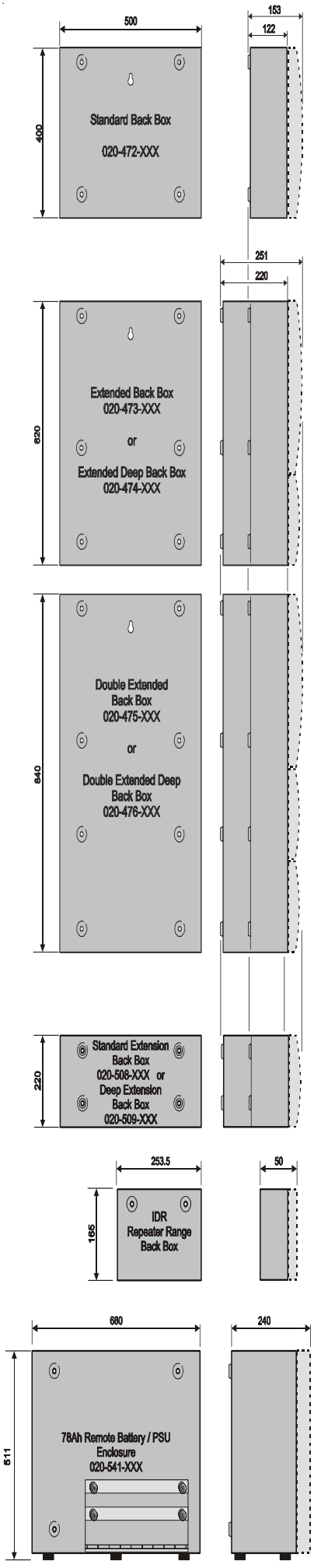
- ✓ 2 to 8 Loops per panel
- ✓ 255 Software Zones per Panel
- ✓ 64, 128 or 255 Zone LED indication options on Extended Panel cabinets
- ✓ 99 Intelligent Sensors per loop
- ✓ 99 Addressable Monitor/ Control Modules per loop

ID²net capacity

- ✓ 100 nodes
- ✓ 32 ID3000 intelligent fire alarm panels
- ✓ 8160 Zones
- ✓ 25344 intelligent Sensors
- ✓ 25344 addressable Monitor/ Control modules
- ✓ 170km of network cabling

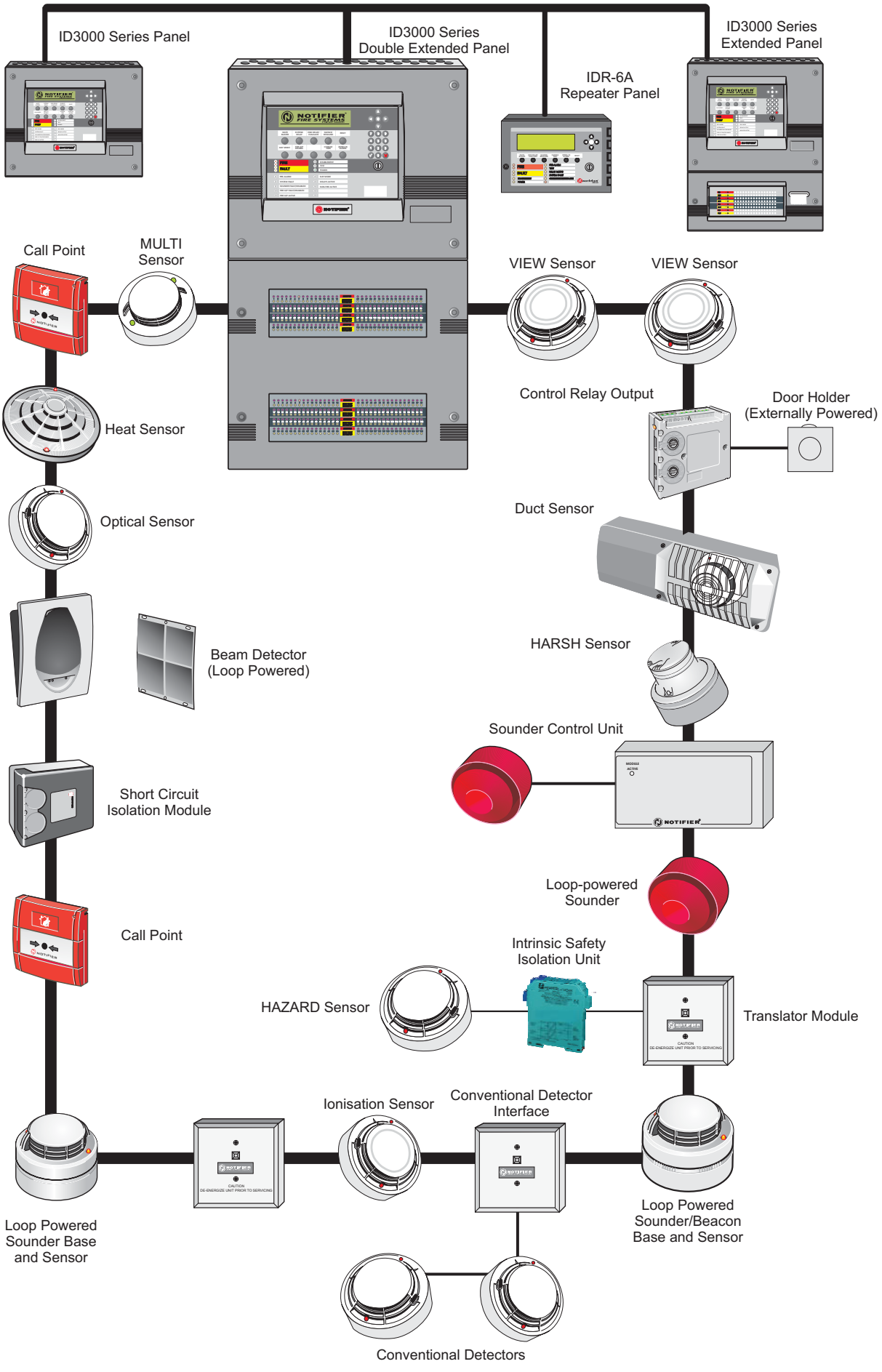
Panel Specifications

- **Primary Input Power**
  - ✓ 230V, 50Hz (Fused at 5A Recommended, 5A mains spur)
- **Sounder Outputs / Volt-free Outputs**
  - ✓ 4 Sounder Outputs @ 1A each / Volt-free output contacts rated 30V 1A.
- **Relay Outputs**
  - ✓ Fire Relay Output @ 30V 1A.
  - ✓ Fault Relay Output @ 30V 1A.
- **Auxiliary Power Output**
  - ✓ 2 Auxiliary Outputs rated @ 26-28V 1A Each
- **Total Auxiliary Output**
  - ✓ Total Sounder and auxiliary power dependent on power supply option selected (please refer to Notifier's see PSU Specifications)
- **Battery Space**
  - ✓ 12Ah with standard back box
  - ✓ 17Ah with extended / double-extended back box
  - ✓ 38Ah with extended deep / double-extended deep back box
  - ✓ 78Ah with Remote Battery / PSU Enclosure



ID3000 SERIES FIRE CONTROL SYSTEM

Inter Linked System



ID3000 SERIES FIRE CONTROL SYSTEM

Peer to Peer Network

