NOTIFIER ADVANCED DETECTION SYSTEMS

PROTECTING LIFE SAFETY & CRITICAL ASSETS
VIEW® (Very Intelligent Early Warning) Laser Smoke Sensor

Our VIEW® laser system is ideal for critical applications where even a trace of undetected smoke is unacceptable or where high air flows can make traditional smoke sensors inadequate. VIEW provides the very early warning, individual point indication, total supervision and simplified maintenance available only from hard-wired, intelligent technology...and only from NOTIFIER.

The result is the security of knowing you'll receive the earliest possible warning and location of smoke without the supervision and maintenance drawbacks of alternatives like air sampling systems.

Why VIEW?

- Superior stability resulting from over two million hours of false alarm-free testing.
- Adjustable sensitivity of pre-alarm and alarm levels from .07%/m to 3.2%/m obscuration provides the appropriate response in even the most critical applications.
- Cooperative detection algorithms let VIEW sensors operate in a group mode, enhancing response time and stability while helping overcome smoke dilution in high air flow applications.
- Dual LED design for 360° viewing of intuitive two-color LEDs (blink green for normal, steady red for alarm) makes point identification and status recognition simple.

- VIEW sensors can be intermixed with other sensors on the same loop to custom-match detection to risk without redundant controls.

VIEW – Perfect For...

- Telephone central offices
- Computer rooms
- Clean rooms
- Cable rooms
- Museums and archives
HARSH – Perfect For...

- Paper, lumber and textile mills
- Food processing plants
- Packaging areas (corrugated dust)
- Laundry rooms
- Animal holding areas such as zoos, stables, barns
- Subway tunnels

HARSH™ (Hostile-Area Smoke Head)

When hostile environments make traditional smoke sensors impractical, HARSH™ is the answer. HARSH works in environments where traditional smoke detection fails. HARSH eliminates nuisance alarms by using a small intake fan to draw air and smoke into a photoelectric sensing chamber through a micro-pore filter, removing unwanted airborne particulates and water mist. So there's no need to compromise on detection in critical areas just because they are dirty or wet.

Why HARSH?

- Intelligent analogue communication provides complete supervision of fan, filter and detection chamber.
- Micro-pore filter removes dust and dirt without removing smoke, and its easy-to-replace design minimises maintenance.
- Unique housing design helps protect the detection chamber and electronics in damp and moisture-rich environments.
- Compatible with all NOTIFIER intelligent fire control panels for new or retrofit installations.
- Cycled fan operation reduces power consumption and extends filter life.
AMS (Advanced Multi-Sensor) Low-Profile Intelligent Sensor

The challenge of smoke detection without false alarms is often greatest in public buildings where activities and potential fire sources can vary greatly, almost hourly. The public’s presence actually creates both the need for early warning and the greatest obstacles to achieving it.

Our AMS sensor meets the challenge of insuring life safety by combining photoelectric, ionisation and thermal sensing technologies to detect fast flaming fires, slow smouldering fires and clean-burning fuel fires. Advanced algorithms and time-based analysis provide early warning and accurate analysis, and are highly immune to nuisance alarms.

Why AMS?

- Combination ionisation, photoelectric and thermal design provides optimal response to all fire types.
- Broad response range and adjustable levels of sensitivity make it suitable for almost any occupancy.
- Ideal in environments susceptible to nuisance alarms.
- Architecturally friendly low-profile design (only 42.2mm high) is both unobtrusive and aesthetically pleasing.
- Onboard microprocessor with advanced algorithms.

AMS – Perfect For...

- Schools
- Airports
- Malls
- Hospitals
- Churches
HAZARD Intrinsically Safe, Intelligent Photoelectric 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.

HAZARD, our new intelligent photoelectric smoke sensor for hazardous environments, provides a cost-effective alternative to explosion-proof fire detectors by providing an electronic barrier. HAZARD is specifically designed to operate with intrinsic safety barriers, which limit power to the hazardous area to safe levels.

Why HAZARD?

- BASEEFA approved for EEx ia IIC T5 hazardous locations.
- FM approved for Class 1, Division 1, Groups A, B, C, D hazardous locations.
- Dual LEDs for 360° visibility improve point identification and status recognition.
- Intelligent communication provides complete sensor status information, which can reduce the need to enter hazardous areas for code-mandated, periodic testing of sensors.
- Built-in, tamper-resistant feature allows installation in high-use industrial environments.
ID2000

2 - 8 loop Intelligent Fire Alarm Panel

Section: Intelligent Fire Alarm Panels

GENERAL
The NOTIFIER ID2000 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 ID2000 to bring you the most complete and versatile fire alarm system in the market place.

The ID2000 panels can be networked together in a Master / Slave network, extending the total capacity of the system to fit the medium to large applications.

The ID2000 is designed in a modular fashion to allow for a wide range of applications, facilitating installation and servicing whilst making the ID2000 very easy to tailor to the requirements of the application.

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
    - Master / Slave
  - 10 separate levels of sensitivity for alarm and pre-alarm per point
  - 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
  - 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)
  - 80 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
  - Output device test activation by address
  - Selective event log display or print by date and time
  - Automatic daylight saving time change (configurable)
  - Full configuration edit capability from panel or PC
  - Multiple options for RS232 port protocol

- PC Support Tool

  - DOS compatible for low specification laptop computers.
  - Spreadsheet fashion display for ease of use.
- Integrated context sensitive help file.
- Cut and paste editing functions.
- File management options such as copy and rename.
- Integrated terminal emulation option for real time editing and monitoring, with print to file or printer option.
- Split screen terminal emulation diagnostics.
- Support for serial or parallel printers.
- Site specific installation information embedded into configuration file.
- Authentication requirement for copy protection.

**User Interface**

- 16 to 80 expandable zone indications.
- Optional integral thermal printer.
- Clear and concise fascia layout.
- Software adjustment of timekeeper clock speed.
- Programmable passcode or optional user interface door for access restriction.
- Intuitive operation.
- Configurable Zone and Individual Point location text

**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)**

**Analogue Loop Devices Support**

- Type A1, A1R and B2 Heat Sensors
- Low-Profile Optical Sensors
- Low-Profile Ionisation Sensors
- Loop Powered Beam Detectors
- Manual Call Points
- Analogue Input Modules
- Analogue Output Modules
- Loop Powered Sounders
- Very Intelligent Early Warning Sensors (VIEW™)
- Self Optimising Optical, Thermal Multi-Sensors (OptiPlex)
- Hostile-ARea Smoke Head Sensors (HARSH™)
- Intrinsically safe Intelligent Optical smoke sensors (HAZARD™)

**VIEW™ Sensor**

- 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
- Addressable operation pinpoints the fire location
- No moving parts to fail or filters to change

**OptiPlex Sensor**

- Self optimising Optical, Thermal sensing technology combined in one sensor.
- 5 smoke sensitivity levels, two self-optimising with heat only output.

**HARSH™ Sensor**

- 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™ Sensor**

- BASEEFA approved to EEx ia IIC/TS.
- Zone 0 hazardous environment installations.

**System Modules**

The ID2000 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.

- **020-628-xxx ID2000 Basic Equipment Kit**
  Includes main chassis assembly, with hinged display, Base PCB containing two loop interfaces, microprocessor PCB containing relevant software and spare fuses. 020-628 Basic Equipment kit - Language Group 0 020-628-001 Basic Equipment Kit - Language Group 1 020-628-002 Basic Equipment Kit - Language Group 2 020-628-003 Basic Equipment Kit - Language Group 3

Extension chassis

- **020-469-009 Extension Chassis Kit. Zone 17-80**
  Includes extension chassis with LED display board for zones 17 to 80 to indicate fire and fault / disablement / test. Will also accept integral printer.

- **020-470-009 Extension chassis with PRN2000 Printer Module Kit**
  Includes extension chassis with integral printer fitted. The RS232 card is not required. Uses 1 panel COMMS port.

- **020-471 PRN2000 Printer Module Kit**
  Includes thermal printer with power supply unit and roll of thermal paper. May be fitted to extension chassis kit 020-469-009 or used as a spare. The RS232 card is not required. Uses 1 panel COMMS port.

Power supplies & accessories

- **020-484 PSU 2.5A 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 DTP/Booster Kit**
  Includes complete PSU interface 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.

- **020-548 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 Module Kit (LIB)**
  Includes PCB for additional 2 loops, and plug in cable connector. Max. three modules per panel. Maximum of 512 peripheral devices per panel using standard LIBs.

- **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.
Repeaters & Mimic panels

- **002-450 IDR-2A 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)

- **002-451 IDR-2A Passive 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-MD Mimic Control PCA Kit.**
  This comprises a Mimic Driver board and two Mimic termination boards, each mounted on a discrete metal chassis. Up to eight Mimic Driver boards can be driven by one Control board.

- **020-574 Mimic Driver & Termination Board PCA Kit**
  This comprises a Control board and a Termination board co-located on one metal chassis. The Control board contains the processor and memory, and the Termination board allows connection of power, RS485 and other external signals. The Control board communicates with up to eight Mimic Driver boards.

Product literature and tools

- **020-605 DOS Based PC Support Tool Kit**
  Includes “Off-line Configuration” software and electronic manuals on a floppy, 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. Suitable only for 16 zone version. Compatible with internal PSU2.5A 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 PSU2.5A 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 PSU2.5A 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)

- **002-439 Multi-Mount Enclosure**
  Will accept any 2 standard modules / isolators, a single CMX-10R, a Serial Nion or a MRM-1 mains relay. Finished in RAL 7021 extra fine texture.
Covers & bezels options

- **020-038-009 Standard**
  Semi-flush mount bezel for standard height back box. Finished in RAL 7021 extra fine texture.

- **020-039-009 Extended**
  Semi-flush mount bezel for extended height back box. Finished in RAL 7021 extra fine texture.

- **020-040-009 Double Extended**
  Semi-flush mount bezel for double extended height back box. Finished in RAL 7021 extra fine texture.

- **020-048-009 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.

- **020-0513-009 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.

- **020-0481-009 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.

- **020-0482 Main User Interface Door Kit**
  Lockable user interface door kit for additional primary display level 2 access restriction and tamper resistance.

- **020-0483 Extension User Interface Door Kit**
  Lockable user interface door kit for tamper resistance to extension interface.

- **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.

- **020-515 High Security Tool**
  For use with the high security fasteners on the high security moulded covers 020-513-009 and 020-514-009.

- **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.

- **020-514-009 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.

- **020-482 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
  - DISABLEMENT
  - TEST
  - EATH FAULT
  - POWER SUPPLY FAULT
  - SYSTEM FAULT
  - POWER
  - PRE-ALARM
  - SOUNDER DISABLED
  - SOUNDER FAULT
  - DELAY ACTIVE
  - DAY MODE
  - REMOTE OUTPUT DISABLED
  - REMOTE OUTPUT FAULT
  - REMOTE OUTPUT OPERATED

- **Membrane Switch Controls**
  - MUTE BUZZER
  - ACCEPT
  - EVACUATE
  - SILENCE SOUNDERS
  - RESOUND SOUNCERS
  - RESET

- **Membrane Programming and Selection Keys**
  - 10-Key Numeric Key-pad
  - Navigation Arrows
  - ✔ and ❌ Pushbuttons
  - ☐ Pushbutton

- **LCD Display**
  - Alphanumeric 80 Character (2 x 40) Back-lit Display

- **Keyswitch**
  - Level 2 Access Code Keyswitch

Panel Specifications

- **Primary Input Power**
  - 230V, 50Hz (Fused at 5A Recommended, 5A mains spur)

- **Sounder Outputs**
  - 2 Sounder outputs @ 1A each

- **Sounder / Volt-free Outputs**
  - 2 Sounder / 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

Panel capacity

- 2 to 8 Loops per panel
- 80 Zone LED indication options on Extended Panel cabinets
- 99 Intelligent Sensors per loop
- 99 Addressable Monitor/Control Modules per loop
COMPATIBLE SLC DEVICES

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<th>ID2000 Series Fire Control System</th>
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<td>Standard Ionisation Sensor</td>
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<td>CPX-751E</td>
<td>Low Profile Ionisation Sensor</td>
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<td>SDX-551E</td>
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<td>Type A1 Thermal Sensor</td>
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<td>M500KAC/GB</td>
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<td>ANS5</td>
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<td>iB53</td>
<td>Addressable Loop Powered Base Sounder with Built-in</td>
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<td>Addressable Loop Powered Wall Sounder</td>
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Some devices may be under development. Contact NOTIFIER for device availability.