NOTIFIER®
by Honeywell

Repeaters and Mimics

Data Sheet



IDR series repeaters and mimics allow vital information from a Notifier fire system to be communicated to points around a building remote from the fire alarm control panel. By placing them at strategic points in a 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.

IDR Series Repeater Panels

The IDR series repeater panels combine a compact design with a 2 x 40 character or a 240 x 64 pixel graphics LCD. The LCD replicates the display on the ID panels, and utilises the same simple menu-driven user interface as the host panel. The control buttons and navigation keys on the repeaters provide the operator with the ability to navigate through the menu options and event displays. The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the IDR Series repeaters. The repeater's event log can store up to 150 most recent events.

- Quickly identify the location of a fire related incident
- Designed to comply with EN54 Part 2
- Simple connection to ID panels
- Active & Passive options
- Power diagnostics
- Push button test
- Language options
- Windows, based off-line configuration tool

IDR Series Mimics

IDR series mimic systems, when used in conjunction with site plans, allow fast identification of the location of a potential fire at locations away from the the main fire alarm control panel. The incident can be quickly investigated by the building occupants and such displays allow fire services attending an incident to quickly evaluate the situation and respond accordingly.

- Compatible with Notifier ID50/60 series, ID2000 and ID3000 Fire Control Panels
- Only one PCB board required for each 16 LEDs/outputs
- Main board extensible by adding up to 9 further expansion boards each with 16 outputs per board
- Provides up to 160 total configurable outputs
- Standard or configurable settings
- Easy DIP switch addressing
- Available with off-line Configuration Tool
- RS485 communications

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

Quality Systems Certificate No. 154
Assessed to ISO9001

IDR-2P Passive Repeater



The IDR2P passive repeater is an indication only repeater. The back lit LCD and the common system status LED's follow the indication on the main fire alarm panel. Furthermore the IDR2P passive repeater has configuration and test functions such as Lamp Test, LCD Test, and Buzzer Test.

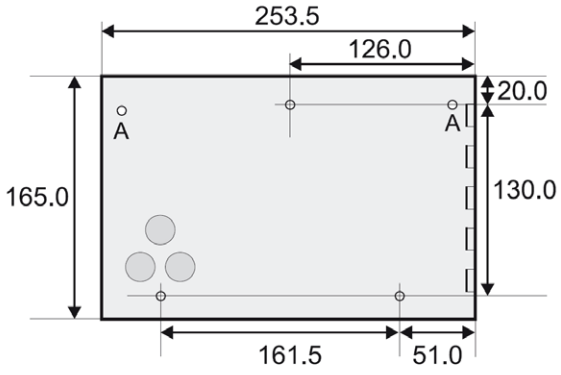
The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the IDR Series repeaters. The repeater's event log can store up to 150 most recent events; this also aids commissioning.

Specifications

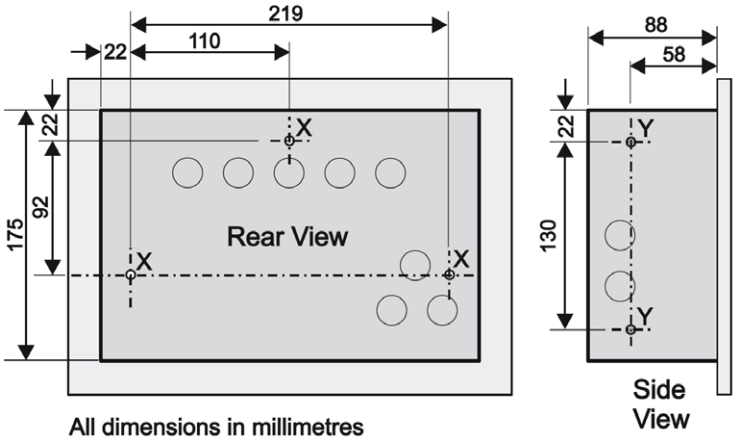
Passive Repeater IDR-2P (002-451)

Mechanical Specification

- Dimensions
  - Height: 165 mm
  - Width: 254 mm
  - Depth: 50 mm
- Weight: 1.7 Kg (approx)
- Material: Mild steel sheet enclosure
- Max Wire Gauge for Terminals: 0.5mm² to 2.5mm²



Bezel Kit (option)



Electrical Specification

- Operating Voltage: 18-32V dc
- Quiescent Current: 90mA
- Alarm Current: 120mA (-2P/-2A),155mA (-6A).
- Communications medium: RS485 2-wire serial link
- Address Range: Switch-selectable in range 0-31 (0 is unmonitored and must not be used except during power-up commissioning check)

RS485 isolated serial port

- Isolation: Functional at 42V
- Baud rate: 1200 Baud
- Connector: Screw terminals on board
- Maximum cable length: 3000m (minimum of 1mm² screened cable recommended)

Environmental Specifications

- Operating temperature range: -5°C to +45°C
- Humidity: 5 to 95% relative humidity (non-condensing)
- Panel Sealing: IP 30, (EN 60529)
- Vibration: EN 60068-2-6, 10-150Hz at 0.981ms-2 (Meets the requirements of EN 54-2/4)
- EMC
  - Emissions: EN 50081-1
  - Immunity: EN 50130-4
- Safety: EN 60950

IDR-2A 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 pushbuttons (Mute Buzzer, Accept, Evacuate, Silence Sounders, Resound Sounders and Reset).

Furthermore, the IDR2A has configuration and test functions such as edit Normal message, Lamp Test, LCD Test, Buzzer Test and a Pushbutton Test option. For added security, a keyswitch on the front of the repeater enables/disables certain push buttons.

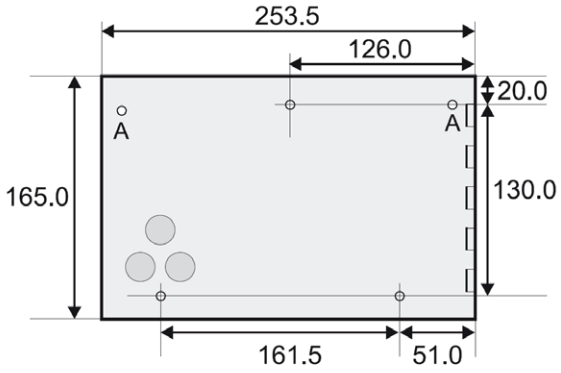
The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the IDR Series repeaters. The repeater's event log can store up to 150 most recent events; this also aids commissioning.

Specifications

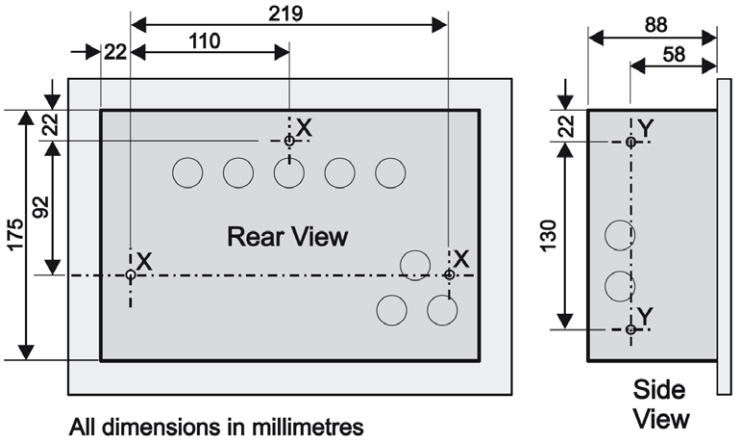
Active Repeater IDR-2A (002-450)

Mechanical Specification

- Dimensions
  - Height: 165 mm
  - Width: 254 mm
  - Depth: 50 mm
- Weight: 1.7 Kg (approx)
- Material: Mild steel sheet enclosure
- Max Wire Gauge for Terminals: 0.5mm² to 2.5mm²



Bezel Kit (option)



Electrical Specification

- Operating Voltage: 18-32V dc
- Quiescent Current: 90mA
- Alarm Current: 120mA (-2P/-2A),155mA (-6A).
- Communications medium: RS485 2-wire serial link
- Address Range: Switch-selectable in range 0-31 (0 is unmonitored and must not be used except during power-up commissioning check)

RS485 isolated serial port

- Isolation: Functional at 42V
- Baud rate: 1200 Baud
- Connector: Screw terminals on board
- Maximum cable length: 3000m (minimum of 1mm² screened cable recommended)

Environmental Specifications

- Operating temperature range: -5°C to +45°C
- Humidity: 5 to 95% relative humidity (non-condensing)
- Panel Sealing: IP 30, (EN 60529)
- Vibration: EN 60068-2-6, 10-150Hz at 0.981ms-2 (Meets the requirements of EN 54-2/4)
- EMC
  - Emissions: EN 50081-1
  - Immunity: EN 50130-4
- Safety: EN 60950

IDR-6A Active Repeater



The IDR6A active repeater panel combines a compact design with a 240 x 64 pixel graphic backlit LCD and system control pushbuttons. The large LCD replicates the display on the ID3000 panel and utilises the same simple menu-driven user interface as the ID3000 panel. The control buttons and navigation keys on the repeater provide the operator with the ability to navigate through menu options and event displays.

Furthermore it allows the user to remotely reset the system, accept events, silence sounders, resound sounders, initiate evacuation and to run diagnostics tests on the repeater. For added security, a keyswitch on the front of the repeater enables/disables certain pushbuttons.

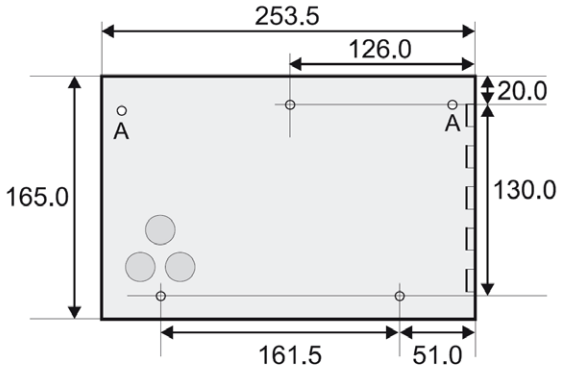
The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the IDR Series repeaters. The repeater's event log can store up to 150 most recent events; this also aids commissioning.

Specifications

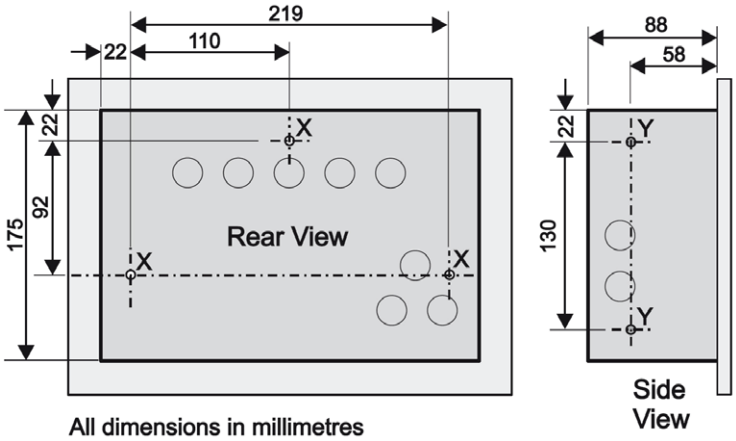
Active Repeater IDR-6A (002-452)

Mechanical Specification

- Dimensions
  - Height: 165 mm
  - Width: 254 mm
  - Depth: 50 mm
- Weight: 1.7 Kg (approx)
- Material: Mild steel sheet enclosure
- Max Wire Gauge for Terminals: 0.5mm² to 2.5mm²



Bezel Kit (option)



Electrical Specification

- Operating Voltage: 18-32V dc
- Quiescent Current: 90mA
- Alarm Current: 120mA (-2P/-2A),155mA (-6A).
- Communications medium: RS485 2-wire serial link
- Address Range: Switch-selectable in range 0-31 (0 is unmonitored and must not be used except during power-up commissioning check)

RS485 isolated serial port

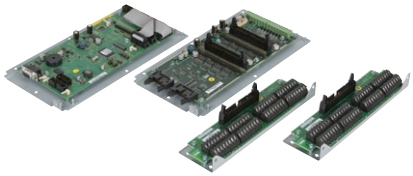
- Isolation: Functional at 42V
- Baud rate: 1200 Baud
- Connector: Screw terminals on board
- Maximum cable length: 3000m (minimum of 1mm² screened cable recommended)

Environmental Specifications

- Operating temperature range: -5°C to +45°C
- Humidity: 5 to 95% relative humidity (non-condensing)
- Panel Sealing: IP 30, (EN 60529)
- Vibration: EN 60068-2-6, 10-150Hz at 0.981ms-2 (Meets the requirements of EN 54-2/4)
- EMC
  - Emissions: EN 50081-1
  - Immunity: EN 50130-4
- Safety: EN 60950

Mimics IDR-M & IDR-MD

The IDR-M and IDR-MD mimic products make up a versatile system where mimic displays are required in association with NOTIFIER fire control panels. Common fire, fault, test and disablement outputs and power OK outputs can be configured in addition to a keyswitch input to enable evacuate, silence, lamp test, mute and reset inputs.



The IDR-M Control and Termination kit 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.

IDR-MD Mimic Driver kit 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.

Specifications

Mimics IDR-M & IDR-MD

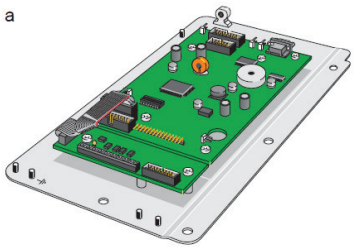
Mechanical Specification

- Dimensions - Control or Driver pcb:
  - Height: 45 mm
  - Width: 126 mm
  - Depth: 240 mm
- Dimensions - Mimic Termination pcb:
  - Height: 45 mm
  - Width: 57 mm
  - Depth: 203 mm
- Max wire gauge for terminals: 0.5mm^2 and 2.5mm^2

IDR-M Mimic control Kit

Mimic Control board mounted on a discrete metal chassis. The control board communicates with up to eight mimic driver boards.

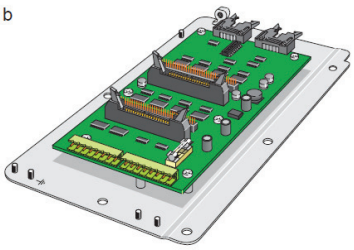
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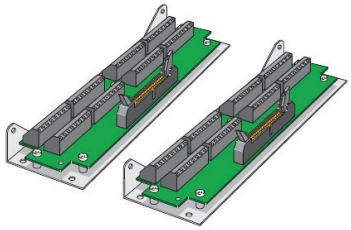


IDR-MD Mimic Driver and termination board Kit

This comprises a driver board and two termination boards each mounted on to individual metal chassis.

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Electrical Specification

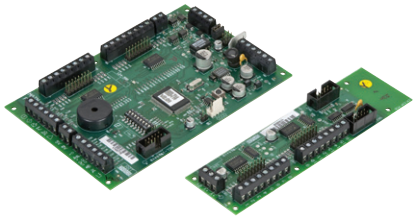
- Operating Voltage: 18-32Vdc
- Operating Current:
  - Control board: 90mA
  - Each driver board: 10mA
  - Each LED: 4.4mA
  - Max. total (Board & 64 LEDs): 265mA
  - Each relay: 80mA
- Communications
  - Medium: RS485 2-wire serial link
  - Isolation: Functional at 42V
  - Baud Rate: 1200 Baud
  - Max. Cable Length: 3000m RS485 Network

Environmental Specifications

- Operating temperature -5°C to +45°C
- Relative humidity: 15% to 95%, non-condensing
- EMC
  - Emissions: EN 61000-6-3
  - Immunity: EN 50130-4
- Safety: EN 60950

Compact Mimic IDR-CM & IDR-CME

The Compact Mimic is an expandable mimic suitable for 'standard' or more complex applications where mimic displays are required in association with NOTIFIER fire control panels. Common fire, fault, test and disablement outputs and power OK outputs can be configured in addition to a keyswitch input to enable evacuate, silence, lamp test, mute and reset inputs.



The Compact Mimic has two types of boards: a main board (IDR-CM) and an expansion board (IDR-CME), both of which can have up to 16 configurable outputs. A fully utilized compact mimic system can comprise one main board and up to 9 expansion boards, providing a maximum total of 160 configurable outputs.

Specifications

Compact Mimic IDR-CM & IDR-CME

Mechanical Specification

- Dimensions IDR-CM Control Board:
  - Height: 25 mm
  - Width: 102 mm
  - Depth: 152 mm
- Dimensions IDR-CME Expansion Board:
  - Height: 25 mm
  - Width: 44 mm
  - Depth: 152 mm
- Max wire gauge for terminals: 0.5mm^2 and 2.5mm^2

The IDR-CM Control Board has provision for General Fault, General Disablement, Power OK, General Fire and Test LEDs. There are 16 LED or relay outputs which can be configured either out-the-box (as all fire or as 8 fire and 8 fault/test/disablement, both starting at a specified zone number) or individually via an Off-line Configuration Tool. Provision is made for Evacuate, Silence Sounders, Lamp Test, Mute Buzzer and Reset pushbuttons and for a level 2 access keyswitch.

Expandable with up to 9 additional IDR-CME expansion boards each providing 16 additional configurable outputs, giving a maximum total of 160 configurable outputs

Electrical Specification

- Operating Voltage: 18-30Vdc
- Current Consumption:
  - IDR-CM Control board: 35mA max.
  - IDR-CME expansion board: 0.5mA max.
- Individual active output current:
  - Configured for LED limited to 6mA.
  - Configured for relay maximum 50mA.
- Communications
  - Medium: RS485 2-wire serial link
  - Isolation: Functional at 42V
  - Baud Rate: 1200 Baud
  - Max. Cable Length: 3000m RS485 Network

Environmental Specifications

- Operating temperature -5°C to +45°C
- Relative humidity: 15% to 95%, non-condensing
- EMC
  - Emissions: EN 50081-1
  - Immunity: EN 50130-4
- Safety: EN 60950

Product Range at a Glance

		Part Number
	IDR-2P Passive Repeater	002-451
	IDR-2A Active Repeater	002-450
	IDR-6A Active Repeater	002-452
	IDR-M Mimic control PCA Kit	020-573
	IDR-MD Mimic Driver and termination board PCA Kit.	020-574
	IDR-CM Compact Mimic driver.	020-741
	IDR-CME Compact Mimic Expansion board	020-742
	Flush Mounting Bezel for IDR Series Repeaters. Black/Grey. H:218mm W:307mm D:60mm. Hole size: H:170mm W:260mm.	020-600-009
	IDR6-A Active Repeater. 240 x 60 Graphic LCD STAINLESS STEEL, Flush. Requires external power source and RS485 communication card (to be installed in the panel). H:218mm W:307mm D:60mm. Hole size: H:170mm W:260mm.	002-466

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