

Pearl™ Intelligent addressable fire alarm control panel Data Sheet



Pearl - Simply more intelligent

The Pearl fire alarm control panel from Notifier by Honeywell is a robust and easy to use networkable 1 or 2 loop panel. It exploits Notifier's class leading Opal digital protocol to maximise the speed and efficiency of fire detection and alarm.

The large display with its intuitive interface and menu driven features allows quick and easy operation of the system. Coupled with more power and devices on the loop than other panels in its class, the simple design will allow for trouble-free first fix installation.

With advanced networking capabilities the Pearl uses a new version of Notifier's powerful ID²net network enabling the creation of networks consisting of up to 16 Pearl panels. The Pearl panel is supported by an integrated tools suite to enhance and simplify the system management.

Extended capacity

- The Pearl supports up to 636 loop devices (159 detectors plus 159 modules per loop)
- Longer loops, but fewer of them, give the opportunity to save on installation time, cost and wiring
- Highly resilient Opal system, able to pinpoint a loop fault whilst maintaining full system operation
- Powerful networking capability - Up to 16 Pearl panels, controlling over 10,000 devices, can be networked via a new version of Notifier's superfast ID²net; prioritising a fire signal to communicate across a network in under three seconds.

Ease of use

- Intuitive on-site management - backlit buttons for fast, error free situation management, and large display giving complete information at a glance
- Simpler diagnostics and maintenance - panel control of detector LEDs enabling confirmation of detector status
- Text programming via MS Excel spreadsheet
- User permissions set per individual password

Flexibility

- Unique first fix bracket with adaptations for 19" rack or flush mounting.
- Extension boxes in various configurations to accommodate batteries up to 38Ah.
- Fast system set up and commissioning via the panel, loop "Autolearn" and advanced PC tools suite
- Comprehensive "Cause & Effect" programming capability
- Panel sounder and beacon synchronisation
- System extensions and adaptations can be made quickly without compromising fire cover and without extensive re-cabling
- Separate text change without risk to "Cause & Effect" or system configuration.
- Ability to run BS5839 pt 6 system for HMO

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System Features

- 1 or 2 loop models available
- 159 intelligent Opal detectors per loop
- 159 modules (AV, MCP, input/output interface modules) per loop
- 64 zones of fire detection with LED indication per zone
- 2 programmable outputs – monitored for open and short circuits
- 2 programmable inputs
- 4 soft keys programmable to the needs of the user
- Advanced Cause and Effect programming
- Cable entry through punched holes - no need to knock out blanks
- Custom logo on quiescent screen Day/Night mode configurable for site specific requirements
- Class change facilities
- Loop auto-learn function
- Backlit buttons and on screen help for user guidance
- CPD approved by LPCB (BRE)
- Approved for control of 512 fire devices to EN54-2
- 6 line text repeater for event control - uses built in communications port if network card not fitted



Specifications

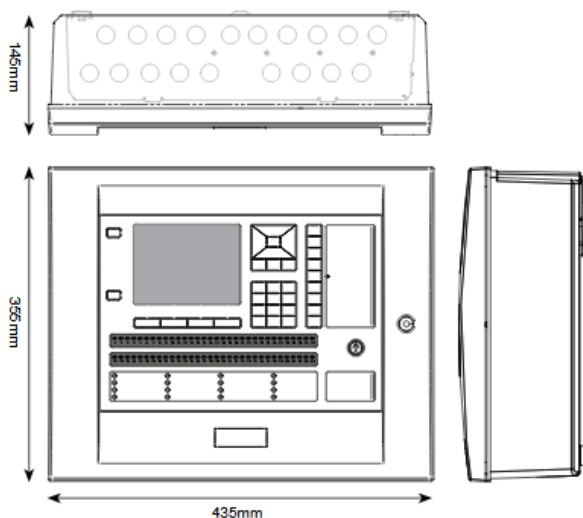
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Mechanical Specification

- Dimensions
 - Height: 355 mm
 - Width: 435 mm
 - Depth: 145 mm
- Weight: 6 kg without batteries
12 kg with 12Ah batteries (standard battery size)
- Construction: ABS UL94-HB40 plastic front cover and main enclosure
- Mounting Holes: 4 (on first fix bracket)
- Cable entry holes (20mm): 20 (top), 2 (bottom)
- External Connections: plug-in screw terminals
0.5mm² to 2.5mm² (14-22AWG)

Mechanical Description

- All displays and controls are carried on the enclosure door.
- Door is hinged on the left and opened using a 4mm Allen Key
- Door removable through fast clip hinges



Electrical Specification

- Operating Voltage: 230Vac 50Hz
- Voltage Tolerance: +10%, -15%
- Incoming Mains Fuse: 1.6 A T5AH250V (20mm HRC anti-surge fuse in PSU)
- Battery Charger Output Voltage: 27.2 V nom @ 20°C (temperature compensated and current limited)
- Aux DC Output: 27.5 V ± 0.5V, 500mA max.
- Power Supply Output Rating: 3A (continuous)
- Standby Batteries (24Vdc sealed lead-acid): Min. 12Ah
Max. 38Ah (using PRL-BOX)

Loop Specification

- Maximum loop current: 750mA per loop
- Max loop length screened cable: 3500m*
- Max number of detectors: 159/loop
- Max number of modules: 159/loop

*usable length may be less depending on loop loading

Environmental Specifications

- Climatic Classification: 3K5, (IEC 721-2-3)
- Operating Temperature: 0°C to +40°C
- Relative Humidity: 5% to 95% non condensing
2000m max.
- Height above sea level: 2000m max.
- Panel Sealing: IP30 (EN60529)
- Vibration: EN60068-2-6,
10-150Hz at 0.981ms-2
- EMC
 - Emissions: EN61000-6-3
 - Immunity: EN50130-4
- Safety: EN60950

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Mounting Options

The Pearl's innovative mounting system gives the installer easier access to terminate wiring to the back plate before the panel is even installed. Various mounting options are available to allow for larger battery capacity for longer standby time and to enable flush mounting of the panel.



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