

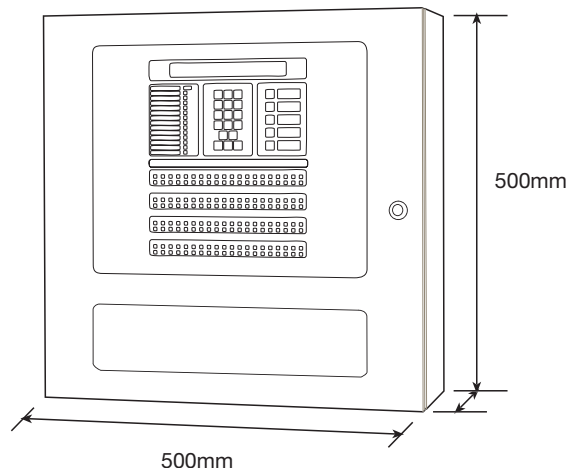
features

- Modular concept
- Simple, robust design
- Intuitive to use
- Easy to maintain
- Easy to expand
- Easy to network
- Easy to install
- Easy to configure

The ZX5e is an intelligent fire alarm control panel. It has been designed and is constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

Designed for maximum flexibility the ZX5e control panel is supported by a complete suite of peripherals and software tools. Information on the location of fires, faults and system status can easily be displayed or printed in multiple locations. Integration to Voice Evacuation Systems, paging systems and third party control systems is supported through a range of peripheral interface units.

This adaptability, support and intelligence means that the ZX5e is suitable for new projects, system expansions, retrofits and system upgrades in all application areas. Offices, industrial units, multi-storey buildings, entertainment venues, industrial plants and hospitals are a few of the many applications that can benefit from the features of the ZX5e intelligent multi-protocol fire alarm control panel.



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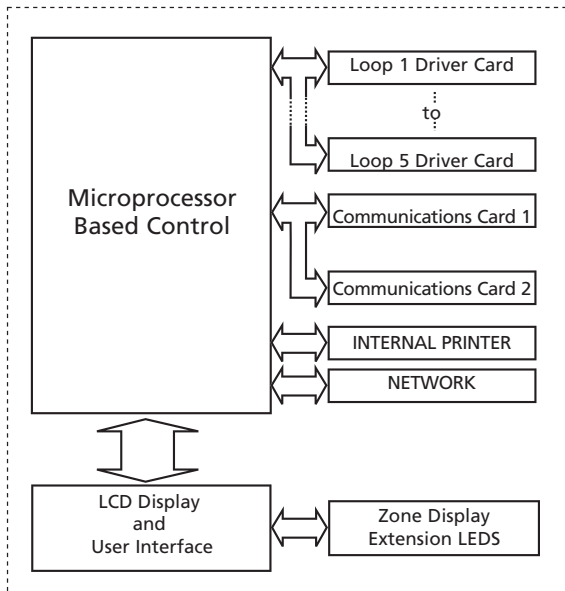
A Honeywell Company

ZX5e Fire Alarm Control Panel Data Sheet



system

The ZX5e control panel forms the heart of the fire detection system. A steel enclosure contains all the required components - microprocessor, power supply plus a clear LCD (Liquid Crystal Display), system status indicators and the control buttons that are the user interface.



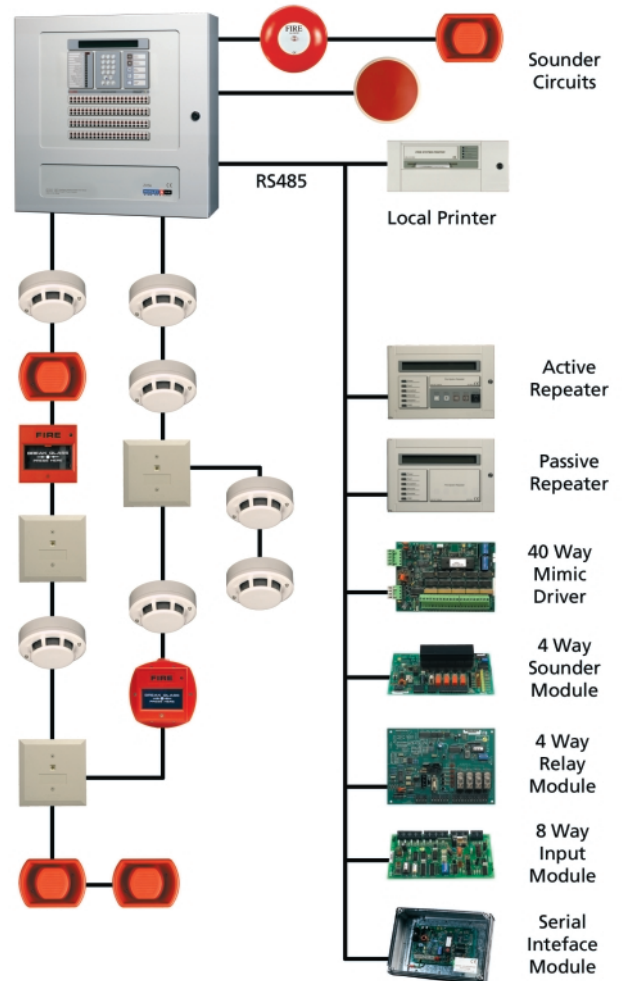
A quick glance enables users to assess the condition of the fire alarm system. Alarm and Fault conditions are highlighted by LEDs and supported by enhanced text descriptions on the LCD display. Clearly labeled buttons allow users to quickly manipulate the system providing both audible and tactile feedback of successful operations.

Accidental operation is prevented by user passcodes that are required to gain access to functions. Basic functions (Evacuate, Reset, Mute, Accept, Silence) are available at one access level whilst more advanced operations are protected by a secondary level passcode. Individual device isolations, test modes and configuration data are all protected by these secondary access levels.

Inside each control panel the microprocessor maintains a log of the events or actions occurring on the system. Fires, Faults, tested devices and diagnostics are all electronically logged for future reference. Remote (or local) printers can easily be connected to provide a paper copy of events as and when they occur or provide a historical record.

The control panel can be configured to support detection protocol by installing the Morley-IAS loop driver cards in the control panel. For each loop the control panel will support up to a maximum of 198 devices i.e. 99 sensors and 99 modules (call points, monitor, control conventional zone modules and addressable sounders) using Morley-IAS protocol.

The flexibility of the ZX5e design allows the control panel to be connected to a wide variety of peripheral devices. From display repeaters to custom mimic displays, printers, serial data interfaces and switching relay interfaces.



installation

The initial installation of the system is aided by sophisticated features like AUTOLEARN. An internal routine that will automatically detect all the devices on the detection and peripheral loops saving the time of entering all the devices individually.

Basic programming is also configured during the Autolearn process resulting in only fine tuning of the system being required to complete the system configuration.

An off-line Windows™ configuration tool is available to further enhance the process, making text entry and specific device programming

easier. Complex cause and effects programming is simplified through clearly designed user interfaces. Once completed the configuration of the panel can be saved for future reference. Enhanced features allow the complete archiving of the control panel history log and a Virtual Panel Interface enables all control commands to be entered using the computer.



maintenance

The ZX5e intelligent fire alarm control panel has been designed to help with the normal operation of a fire detection system. Standard weekly testing is available through a simple menu structure allowing selection of the zones to be tested and the optional activation of the outputs or ringing of the sounders.

The status of individual devices can be analysed to determine whether cleaning or replacement is required. This information can either be viewed directly on the LCD, printed for reference or viewed from remote locations using Fire 6 enhanced software.

As the installation grows the ZX5e can expand with the installation, adding additional devices, loop cards, printers, display repeaters or interface devices. If the installation becomes too big for a ZX5e, additional ZX1e or ZX2e or ZX5e control panels can simply be added by networking using two or more control panels together.

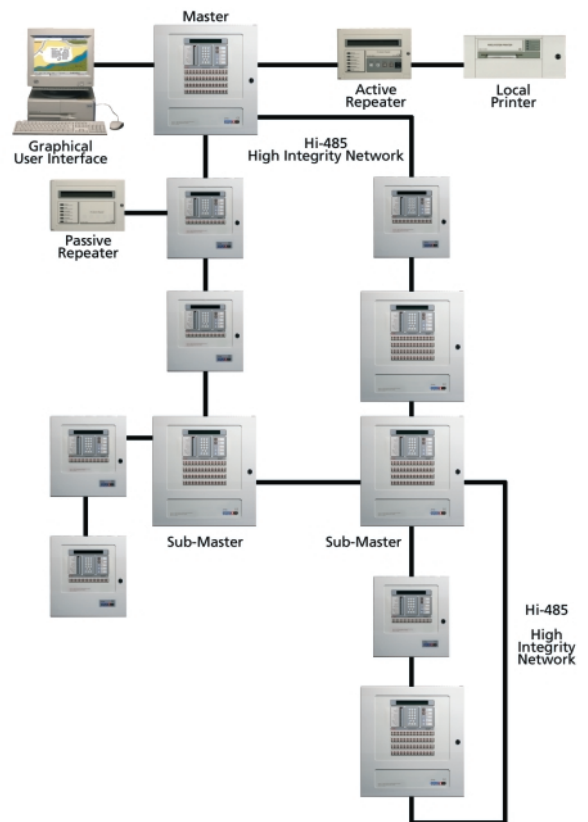
networking

The Morley-IAS network is unique. A clever protocol allows for the propagation and distribution of all messages and control signalling. A robust protocol that can be used over long distances, even on MICC, mineral based fire resistant cabling. The ZX5e can be networked with other ZX series control panels using Master/Slave architecture. Up to a maximum of 99 control panels can be networked together using the standard control panel operating system.

The network can be configured in two ways:

For single sites or large buildings the networking is normally configured as one large system. Each networked control panel shares information. Alarms and communications are reported to each individual display.

If the fire alarm system is to provide cover for multiple buildings or multiple sites it is normally configured to operate in a report and control mode. The fire alarm panels act individually or as sub-systems only reporting information to the master on the level above.



specification

Operating Voltage: 230V 50Hz ac
(+10%, -15% voltage tolerance)

Max. PSU Rating: 3.25 Amps total, comprising:
Battery Charger: 1.0 Amps
Internal & External Loads: 2.25 Amps

Note - Remember to use loop and battery calculator to check system and battery loading.

Standby Batteries: 24V sealed lead acid batteries
Minimum Capacity: 2x 12V 12Ah (internally fitted)
Maximum Capacity: 2x 12V 25Ah (internally fitted)

Power Supply:

Input(s): 24V and 7Vac
(from integral mains transformer)

Output(s): 24Vdc nominal (25.5 - 20.0Vdc)

Dimensions (mm): 500 x 500 x 195 (H x W x D)

Weight: 19.0 kg without batteries
38.2 kg with 2x 25Ah batteries

Environmental Operating Limits:

Temperature: 0°C to +40°C
Humidity: 85% non-condensing (maximum)

Construction: Sheet steel painted, sealed to IP30

Cable Entry: 24 x 20mm knock-outs in top of cabinet
24 x 20mm knock-outs in bottom of cabinet

Loop Capacity: 1 to 5 loops expandable

Protocol: Max. 99 sensor and 99 module addresses
per loop

Zones: Up to 20 zones with individual LED
indicators. Expandable to 40 or 80
individual LED indicators. A maximum 200
can be programmed with up to 120
software zones with no LED indication.

Internal Sounder: Intermittent buzzer (fault condition)
High-pitched continuous buzzer
(fire condition)

External Outputs:

Sounder Outputs: 4 programmable outputs. Open and short
circuit monitoring. 1A maximum per
output.

Auxiliary Relays: EN54 format at 1 fault relay and 1
programmable relay voltage free,
changeover outputs Contacts rated at 24V
ac/dc, 1A, 0.6 pF maximum.

User Controls: MUTE, ACCEPT, SILENCE/RESOUND,
SOUND ALARMS & RESET

Programming Controls: Alphanumeric multi-level keypad with 15
keys and 3 control keys:
✓ (YES), ✗ (CANCEL/ESC), and ↵ (ENTER)

LED type general panel status indicators:

FIRE, FAULT, ACCEPTED, DISABLEMENT, TEST,
SOUNDER FAULT, DELAYED MODE, RELAYS DISABLED,
EARTH FAULT, SYSTEM/CPU FAULT, SOUNDERS DISABLED,
ALARMS SILENCED, SUPPLY FAULT, POWER.

LED type zone Indicators (for 20 zones):

FIRE, FAULT/TEST/DISABLED

Display: 2x40-character LCD alphanumeric
display with back-light.

Serial Interface: 3 serial ports with connections for
optional RS485 or RS232 plug-in
communication cards.

Networking: Maximum 99 panels can be
networked using a Master
Network and connected Sub-
Networks.

Approvals:



REF: 429a.

part numbers

721-001-201	ZX5e Fire Alarm Control Panel
795-072	Loop Driver Card for Morley-IAS protocol
795-004-001	RS 485 Communication Module
795-005	RS 232 Communication Module
797-062	ZX5e Bezel Kit
797-064	ZX5e Glass Door Kit
795-078	Fire 6 Windows™ Configuration Tool
795-079	Programming interface lead & free Fire 6 Windows™ Configuration Tool
796-081-001	Fire 6 Enhanced Feature Set Software Key.
795-014	4 way programmable relay module, pcb only.
795-015	4 way programmable sounder module, pcb only.
795-029	8 way programmable input module, pcb only.
795-038-001	Hi-485 communication module, pcb only.
795-065	40 way programmable mimic interface module, pcb only.
709-601-001	ZXr-A Active Repeater. LCD, System Status indicators and user controls for Silence, Reset, Mute, Accept, Self-test and Evacuate all activated by a key switch.
709-701-001	ZXr-P Passive Repeater. LCD and system status indicators.
020-600-002	Bezel Kit for ZXr Repeaters.
795-060-002	External remote printer module.
795-057	MODBUS interface unit.
795-067-001	Paging system interface module. Suitable for SCOPE, ASCOM/TELENOVA.