

DXc Range Data Sheet

1, 2 and 4 loop, networkable,
multi-protocol, analogue addressable fire
alarm control panel

Product Overview

The Morley-IAS DX Connexion panel is ideally suited for use in the protection of small to medium sized buildings. All in all, a compact, high performance, feature rich, economical fire alarm control panel designed to help both the installer and the end user.

The DX Connexion is an enhancement of the Morley-IAS Dimension panel range, connecting the traditional Morley-IAS qualities of reliability, flexibility and value with advanced features and intuitive functionality.

The multi-protocol DX Connexion range of fire alarm control panels has been developed to be the most time efficient fire panel on the market to install. Simply fix the control panel to the wall, connect the field wiring, power up and in as few as five button presses you can have a compliant, working fire alarm system. The panel's large graphical display provides a clear menu structure making the whole initial set-up process quick, clear and intuitive.



Product Overview

(Continued...)

Additionally, programming the control panel couldn't be easier. Complex configuration can be achieved by using either the panel's mobile phone style key pad or by using the Windows PC programming tool supplied with the panel. The flexible PC programming tool also allows text messages for devices or zones to be imported from an Excel spread sheet, saving further time.

User Interface

Display	6x40 character (240x64 pixels) blue liquid crystal display with backlight illumination
Control Keys	Evacuate, Silence/Resound, Mute Buzzer, Extend Delay, System Reset, Show Alarm Zones
Programmable Keys	2 independent programmable function keys and LED indicators
Programming Keys	12 button alpha numeric key pad inc cancel and return keys plus 4 navigation keys and an OK key
Indicators	Fire, Fault, Disablement, Test, Buzzer Muted, Delayed Mode, Sounders Silenced, Sounders Disabled and Power. Also dedicated fault LEDs for System Fault, Supply Fault and Earth Fault. 40 or 80 LED fire zone indicators optional.

Protocol Devices

Supports Apollo (Xplorer, XP95 and Discovery), Hochiki (ESP) & System Sensor protocol devices.

Loop Capacity²: 500mA per loop

Number of Devices	Apollo Protocol	Hochiki Protocol	System Sensor Protocol
126	✓	✓	-
198	-	-	✓

Networking Features

- Network up to 16 loops (16x1 loop panels, 8x2 loop panels, 4x4 loop panels or any mix up to max 16 loops)
- True peer-to-peer and fault tolerant network for high system reliability
- BS5839 part 1 compliant network

Panel Features

- Optional 40 or 80 zone alarm LEDs
- Easy 5 key-press set-up
- Large blue LCD display
- Supports USB upload/download
- Mobile phone style keypad and navigation keys
- Option to upload a company logo

Software Features

- PC configuration software (supplied with panel)
- 80 fire zones (can be used with or without LEDs)
- 7 day timers
- Event logging
- Onboard diagnostics
- Class change function
- Coincidence and verification detection for false alarm management
- Sensitivity adjustment e.g. between day and night
- Input/output logic

Hardware Features

- Battery backed real-time clock (2 & 4 loop)
- 2 independent sounder circuits
- 500mA multi-protocol loop driver
- 2 x onboard monitored inputs
- Optional programmable keyswitch for selected functions
- Plug-in connectors

Output Relays:

Fire relay: Single pole changeover 24V DC 1A
Fault relay: Single pole changeover 24V DC 1A
Aux relay: Programmable single pole changeover 24V DC 1A

Onboard Data Ports:

1 x RS485 (Repeater connection)
1 x PC Programming Port⁴

Optional Ports:

RS232 third party protocol interface

Sounder Circuits:

2 output circuits, 1A per circuit.¹

Mechanical

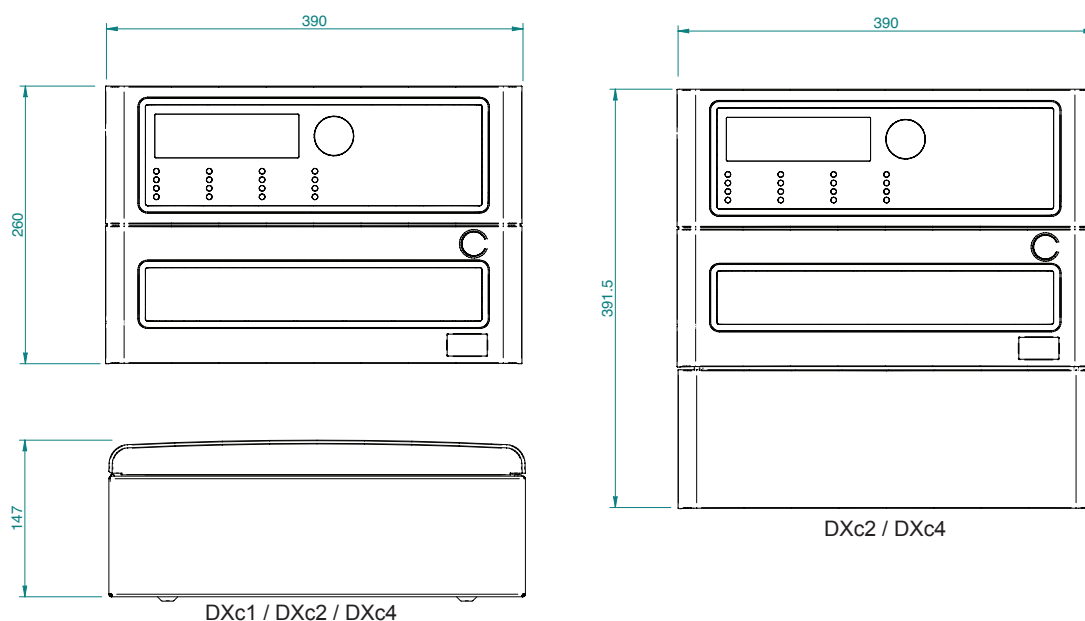
DXc1

DXc2

DXc4

Dimensions [mm] (H x W x D)	260 x 390 x 147	391.5 x 390 x 147	391.5 x 390 x 147
Weight (Excluding Batteries)	4kg	4.5kg	4.5kg
Colour	RAL 9002 - Grey white	RAL 9002 - Grey white	RAL 9002 - Grey white
Mounting Holes	3	3	3
Knockouts (20mm)	Top: 25x Bottom: 2x	Top: 25x Bottom: 4x	Top: 25x Bottom: 4x
Operating Temperature	0°C to +40°C	0°C to +40°C	0°C to +40°C
Relative Humidity	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing
	IP30 (EN6059)	IP30 (EN6059)	IP30 (EN6059)

Material Mild steel sheet rear enclosure. ABS plastic front cover to BS EN60950. All displays and controls are carried on the enclosure door.



Electrical

DXc1

DXc2

DXc4

Operating Voltage	230V AC (+15%,-15%) 50-60 Hz	230V AC (+15%,-15%) 50-60 Hz	230V AC (+15%,-15%) 50-60 Hz
PSU Rating	24V DC 2A	24V DC 4A	24V DC 4A
Stand-by Batteries ⁵	2 x 7Ah	2 x 17Ah	2 x 17Ah
Stand-by Battery Duration ³ (Based on Apollo devices)	Stand alone: 24 hours back-up with either network card or repeater connected	Stand alone: 72 hours. With network card or repeater connected: 48 hours	Stand alone: 48 hours. With network card or repeater connected: 24 hours
Auxilliary Output ¹	+24V DC 250mA fused	+24V DC 250mA fused	+24V DC 250mA fused

Notes:

¹ Maximum available current will be dependent on full control panel loading.

² Only one protocol can be selected within the control panel.

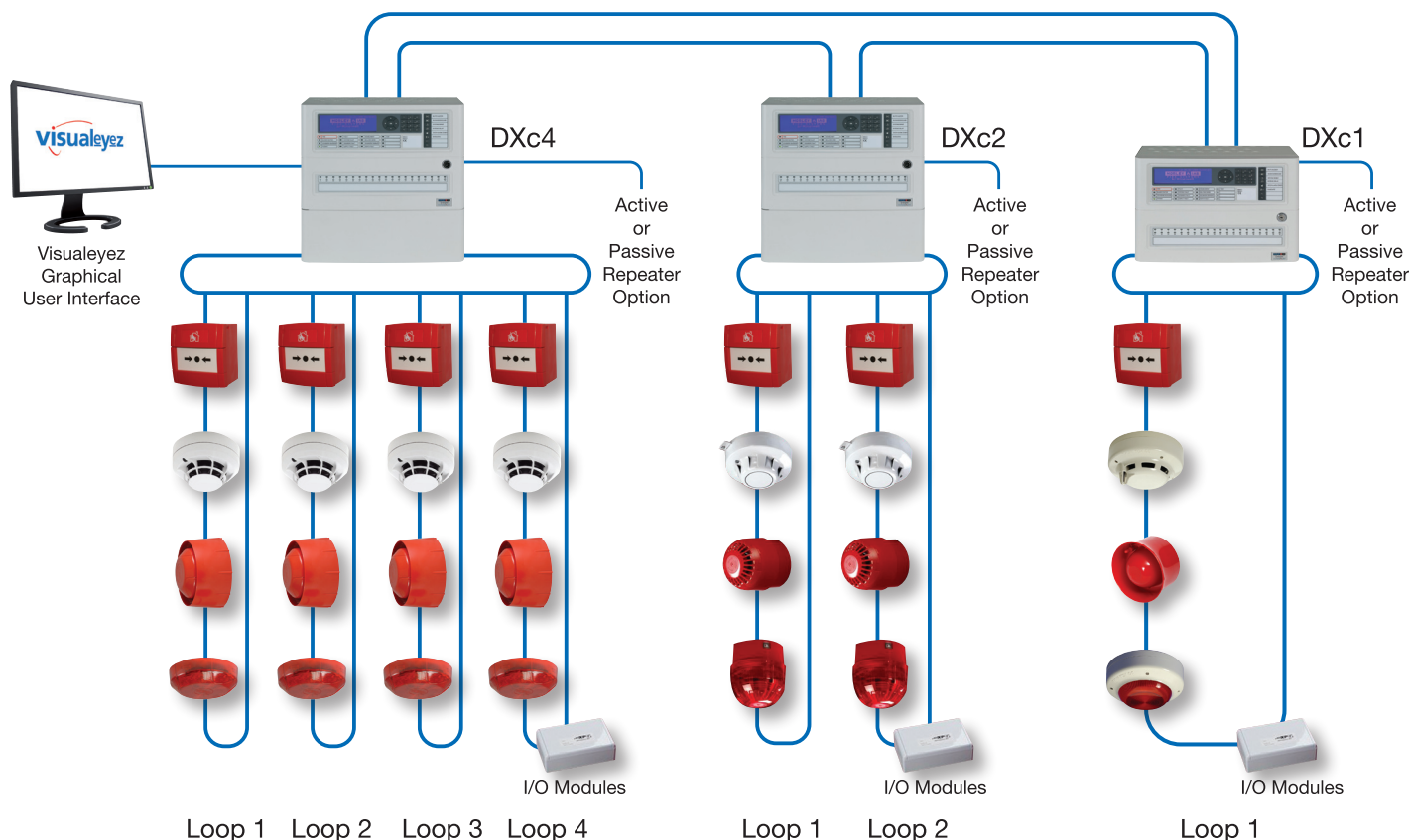
³ Stand-by dependent on type and quantity of devices installed.

⁴ Requires RS232 or USB interface lead.

⁵ Not included.

DXc System Example

Fault Tolerant Peer-Peer Network



* Images shown above with optional LED Kit

Part Numbers

Panels

714-001-111	DXc1 One loop Fire Alarm Control Panel
714-001-221	DXc2 Two loop Fire Alarm Control Panel
714-001-241	DXc4 Four loop Fire Alarm Control Panel

709-601-001	Morley Active Repeater
709-701-001	Morley Passive Repeater
795-097	Engineers SPK (Software Programming Kit)
795-099	Network card
795-101	Blank cover kit for Extension Box
795-102	40 zone LED card kit
795-111	2 loop expansion card
795-112	Bezel kit for DXc1 (mm: h:342 x w:471.5 x d:13)
795-113	Bezel kit for DXc2/4 (mm: h:473.5 x w:471.5 x d:13)

Accessories

795-114	Bezel kit DXc1 plus Extension Box
795-115	Bezel kit DXc2/4 plus Extension Box
795-116	Custom keyplate cover for Extension Box
795-118	Keyswitch kit
795-119	Rack mounting kit DXc1
795-120	Rack mounting kit DXc2/4
795-121	Extension back box
795-122	RS232 Kit (for third party protocol)
795-124	80 zone LED card kit
797-090	DXc EN54-4 compliant PSU
020-909	DXc Compact Mimic
020-910	DXc Expansion Mimic PCB
020-891	USB isolated upload/download lead
See price list	Visualeyez options

For further details on these or any other Morley-IAS products please contact your local distributor, Morley-IAS Business Manager or via our contact details found below. Morley-IAS by Honeywell - Providing a control panel solution, for fire industry professionals, committed to supporting our device partners.



by Honeywell

Caburn House
2B Brooks Road
Lewes, E. Sussex
BN7 2BY UK

T: +44 (0) 1273 897 000
F: +44 (0) 1273 376 894
E: sales@morley-ias.co.uk
www.morley-ias.co.uk

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