Mx-5100

Single Loop
Analogue Addressable
Fire Alarm Control Panel

Advanced Fire Panel Technology

The Mx-5100 Series of control panels are supplied with a single loop driver card, 2 on-board Sounder Circuits, 20 programmable Zonal LED's with slide-in labels, and 25 System LED's for information purposes. There are also 4 programmable function buttons with LED indication for confirmation of operation.

The control panel consists of the latest dual flash-based microprocessor technology combined with a high resolution / high contrast Graphical LCD display and tactile keypad providing a simple 'Select & Click' programming aid for Engineer configuration and End-User operation.

Powerful Cause and Effect programming coupled with 'DynamiX' zoning, and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications from small to large complex multi-area systems. Fully programmable on-site via the on-board alphanumeric keypad, or PC-NeT Configuration Software.

PC Software

An extensive suite of user-friendly Windows based PC software programs have been developed to enhance your experience when using Mx-5000 Series of Fire panels. The suite incorporates a number of different programmes to include a Configuration, Service, Logo and Virtual Panel Tool to allow the flexibility of the equipment to be fully explored.

Network

Simply adding a network card allows the panel to communicate with any other Mx-5000/Mx-4000 fire panel, Remote Terminal, or Network Peripheral, such as, 'ipGateway™' or BMS/Graphical Interface. The network operates as a true peer-to-peer system and can be configured in a Fault-Tolerant Loop or Radial format.

G-210022   BS EN 54-2 & 4   0786-CPD

Features

- 20 programmable Zonal / 25 System LED's with slide-in labels.
- Dedicated loop driver for Apollo & Hochiki protocol support.
- Advanced graphical LCD user interface and support for up to 200 fire zones by default allowing full EN54 compliance without additional hardware expansion.
- Dual flash-based microprocessor technology with Real-Time Clock on-board.
- Dedicated USB & RS232 Serial Port for direct PC or modem connection.
- Installer friendly 'Auto-learn', 'Loop Detection' and on-board Scope facility for ease of Commissioning and Fault finding.
- Fully programmable via the on-board alphanumeric keypad, or PC configuration tools.
- The Graphical display can be configured to operate with virtually any language or character set, and allow the installer's logo to be applied using the 'Logo' application software.
- Robust removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- Rack-mount options available.
- Integral 'P-Bus' for system expansion via available option cards.
- Connection to the 'Ad-NeT' peer-to-peer network is achieved using a simple plug-in network card allowing the system to share up to 2000 zones with full cross panel reporting, control and site-wide cause and effect functionality.
- Approved to BS EN54 part 2, 4 and 13.

Key Features

Single Loop Control Panel

EN54 Parts 2, 4 and 13 'Approved'

Global Compliance

3 Year Warranty as standard

Programmable Push Buttons

Multiple Languages

Fully Networkable

20 Zonal / 25 System LED's with slide-in labels

Specification

Base Technology	Dual flash-based Processors with Real-Time Clock, 'Trace' Diagnostics, Programmable Languages and Character Sets
Display	White Backlit 240 x 64 Graphical LCD
LED Indicators	4 Red (3 x Fire, 1 x More Alarms), 1 Green (Power) & 20 Amber (Fault & System)
Controls	Alpha Numeric Keypad permitting Navigation, Reset, Mute, Silence, Resound, Evacuate, and 4 x Programmable Push Buttons
Protocol	Apollo (Xp95 / Discovery) & Hochiki 'ESP'
Number of Fire Zones	2000 'Dynamix' (200 per individual panel)
Number of Loops	1
Devices per Loop	Protocol Dependent
Loop Current	500mA
On-Board Sounder Circuits	2 x 1 Amp Programmable
On-Board Relays	2 x 1 Amp 30v AC/DC Programmable (10mA, 5v min) - Expandable using Mxp-507
Auxiliary Supply	1 x 24v 500mA
Programmable Input	1 x Monitored Programmable Input On-board
Programmable Key Switch Inputs	1 Volt Free Digital Inputs (Standard Enc.), 8 x Digital Inputs (M, L, D Enc.)
Total Available Output Current	3A Maximum Available for Loop Current + Sounder Outputs + Auxiliary Supply
Mains Supply	200 - 240v 47-63 Hz AC (+10%, -15% tolerance) 1.0A Max
Battery Capacity	24v 4 Ah Internal (min), 24v, 7 Ah Internal (max), **Medium Enc. (M) -** 24v, 12Ah Internal (max), **Large Enc. (L) -** 24v, 18Ah Internal (max), **Deep Enc. (D)** - 24v, 45Ah
Charger Current	1A Temperature Compensated
Serial Port	1 x On-board RS232 connection for PC, Modem, IP, or Portable Printer
USB Interface	1 x USB B type connection for PC Communication
Programming	On-board Keypad or PC running Windows Tools
Event Log	5000 Event & Diagnostic + 500 Fire
Networking	Optional plug in Network Card (Mxp-503 - Standard, or Mxp-509 - Fault-Tolerant)
Printer (Optional)	On-board (M, L, D Enc. Only)
Enclosure / Colour	Steel IP30 / RAL7035
Cable Entry (20mm knockouts)	13 x top & 8 x rear, **Medium Enc. (M)** - 17 x top & 11 x rear, **Large Enc. (L)** - 19 x top & 11 x rear, **Deep Enc. (D)** - 30 x Top, 11 Rear & 3 Bottom
Size H x W x D mm	340 x 340 x 85, **Medium Enc. (M)** - 340 x 430 x 115, **Large Enc. (L)** - 470 x 450 x 115, **Deep Enc. (D)** - 470 x 450 x 190
Metalwork Options	Flushing Bezel, Battery Box and Rack Mount
Approvals	EN 54-2:1998, EN 54-4:1998 & EN 54-13:2005

Order Codes

Enclosure Selection:

Mx-5101:   Single Loop Panel in Standard Enclosure

Mx-5101M: Single Loop Panel in Medium Sized Enclosure

Mx-5101L: Single Loop Panel in Large Enclosure

Mx-5101D: Single Loop Panel in Large Deep Enclosure