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VIGILANT® MX1 Fire Detection and Alarm System

The simple and cost effective solution for small to medium installations

Simplex
FIRE PRODUCTS



*Left: VIGILANT® MX1 Fire Detection
and Alarm System 15U model;
Right: VIGILANT® MX1 Fire Detection
and Alarm System Slimline model*

Control Panel Features

- > Fire Brigade Panel to AS 4428.3
- > LCD Alarm Indiction (40 char. x 4 lines)
- > Optional individual zone status LED indications
- > Three levels of control panel use: Level 1 read-only at all times, Level 2 via 003 keyswitch, Level 3 via PIN.

Introduction

The VIGILANT® MX TECHNOLOGY® brings together the latest fire detection technology from around the world into a comprehensive international range of fire detection systems. Our advanced MX TECHNOLOGY® detectors and fire panels can be used to provide cost effective solutions for small to medium fire detection systems, whilst also providing many of the features and functions required for very large industrial and multi-building sites.

The newest addition to the MX TECHNOLOGY® range, the VIGILANT® MX1 Fire Detection and Alarm System, is an innovative one or two loop analogue addressable fire indicator panel (c.i.e.) incorporating the latest technology. It complies with AS 7240.2 and features an integral Fire Brigade Panel to AS 4428.3. Its support for MX TECHNOLOGY® fuzzy-logic detection algorithms and powerful control functions make it suitable for a wide range of fire protection applications for small to medium size systems.

MX TECHNOLOGY™ Detection

The VIGILANT® MX1 Fire Detection and Alarm System utilises MX VIRTUAL analogue addressable detectors with a range of multi-sensor detectors such as; a triple sensor detector incorporating photoelectric smoke, and CO and heat that allow selection of algorithms for appropriate detection combined with high nuisance alarm immunity, to allow the best detection mode for a situation to be easily selected.

For specific applications, single-sensor MX ANALOGUE addressable ionisation and photoelectric smoke detectors, high sensitivity smoke detectors (VESDA), heat-only detectors, flame detectors, ex rated devices and detectors rated for hazardous areas are also available. Up to 250 MX devices may be connected per addressable loop.

The MX DIGITAL communications protocol used on the addressable loops is designed to provide reliability and fault resistance, with operation possible over many cable types. This often permits system upgrades using existing cables. The loop configuration ensures that communication continues in the event of a loop open circuit fault condition. Up to 100 short circuit isolator detector bases or modules may be fitted around the loop, to limit the effect of a short circuit fault to the devices between isolators.

Why use MX VIRTUAL detectors?

Environmentally friendly detectors

MX VIRTUAL detectors are made from recyclable materials.

Reduced false alarms

MX VIRTUAL detectors minimise the possibility of nuisance alarms without compromising detection capability.

Features and Options

- > Rapid response to fire conditions, yet a low rate of nuisance alarms achieved through:
 - MX SMARTSENSE and FASTLOGIC detection algorithms
 - MX TECHNOLOGY® heat enhanced smoke detection algorithms
 - MX TECHNOLOGY® carbon monoxide (CO) fire detection
- > Single MX DIGITAL loop supporting up to 250 MX devices
- > Optional second MX loop for an additional 250 MX devices
- > Analogue addressable triple sensor detector - photoelectric smoke, heat and CO
- > Analogue addressable; high sensitivity smoke detector (VESDA), flame detectors and ex rated detectors and modules
- > Loop powered sounder bases and beacon
- > Alarm Investigation Facility (AIF)
- > Alarm Acknowledge Facility (AAF) to AS 7240.2
- > Residential mode (Smoke local alarm, Heat general alarm)
- > Plain English alarm messages on 4-line, 40 character LCD
- > Compact zone LED display modules for up to 192 zones
- > Event logging to internal non-volatile history file
- > Event printer port and repeater panel port
- > High level VIGILANT® QE90 EWIS interface
- > Dual databases for reduced downtime and increased security
- > Windows®- based programming tool
- > Day/ night modes for alarm sensitivity adjustment and output logic functions
- > Internal 5A p.s.e. / battery charger
- > Internal mounting for optional T-GEN 50 or Mini-Gen Occupant Warning Systems

The new VIGILANT® MX1 Fire Detection and Alarm System is compliant with Australian Standards AS 7240.2 and AS 4428.3.

MX Range

- > Triple Sensor (Smoke, CO & Heat)
- > Photoelectric Smoke and Heat Detector
- > Carbon Monoxide and Heat Detector
- > Ionisation Smoke Detector
- > Heat Detector
- > Flame Detector
- > Ex Rated Detector Range
- > Universal Base
- > Isolator Base
- > Relay Base
- > Sounder Base (ISO 8201)
- > Duct Sampling Unit
- > Manual Call Point
- > Mini Input Module
- > Contact Input Module
- > Detector Input Module
- > Relay Interface Module
- > Sounder Notification Module

Easy to Operate

Operation is straightforward with the VIGILANT® MX1 Fire Detection and Alarm System's AS 4428.3 Fire Brigade Panel keypad and 4 line x 40 character alphanumeric LCD. It displays clear alarm information including the zone and point numbers, the type of alarm, and a text description of the alarm location. Detailed alarm information is available with a single keypress. The 4-line text display allows easy scrolling through the 99 event alarm buffer. Current faults, disabled (isolated) zones and points, and tests in progress can also be separately recalled. An internal, non-volatile history log stores the previous 900 events, and these can be readily recalled to the LCD. The optional easy-to-read plain language printer output provides a 30 character text description of the event, and a date/ time stamp to allow rapid tracing of events. The printer may be selected to log any or all of: zone events, point events, system events. "Tandem Mode" enables the VIGILANT® MX1 Fire Detection and Alarm System to be operated from a remote computer running PanelX for training, diagnostic or remote operation purposes.

Fully User-Programmable

The VIGILANT® MX1 Fire Detection and Alarm System is programmed quickly and easily using the SmartConfig Windows® -based programming software. The dual database structure of VIGILANT® MX1 Fire Detection and Alarm System allows updated site-specific configurations to be downloaded while still maintaining full operation.

System programming provides a wide range of options including operation of remote displays. Freely programmable mapping of points and sub-points to zones allows maximum flexibility for field wiring.

Powerful control programmability is available through timers (second and minute), day/night periods and logic expressions. Text substitutions add meaning to logic expressions to simplify software maintenance.

The programmed data can be printed for reference and archived for back-up storage. The site-specific configuration is stored in non-volatile FLASH memory, which remains protected even if the system's power supply is removed.



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