

# F3200

## Advanced Conventional Fire Alarm System

### Features

- Certified to AS 4428.1
- LCD and optional zone LEDs
- Compatible with a wide range of detectors
- Expands up to 64 zones
- Easy to operate
- Fully field programmable
- Networking options
- Low profile LCD repeater/mimic
- AS ISO 14520.1:2009 Gaseous Fire Extinguishing System options
- Space for T-Gen60 emergency warning system



### Economical, Flexible And Reliable

The VIGILANT F3200 is an advanced Fire Indicator Panel (FIP) that uses modular internal construction to achieve economical and reliable monitoring and control for up to 64 fire detection zones. In its minimum configuration, F3200 contains all of the facilities required for a comprehensive 8 zone fire alarm and control system. The ease with which it can be expanded, its flexible input monitoring, its networking capability and its extensive field programming facilities make it suitable for a wide range of fire protection applications.

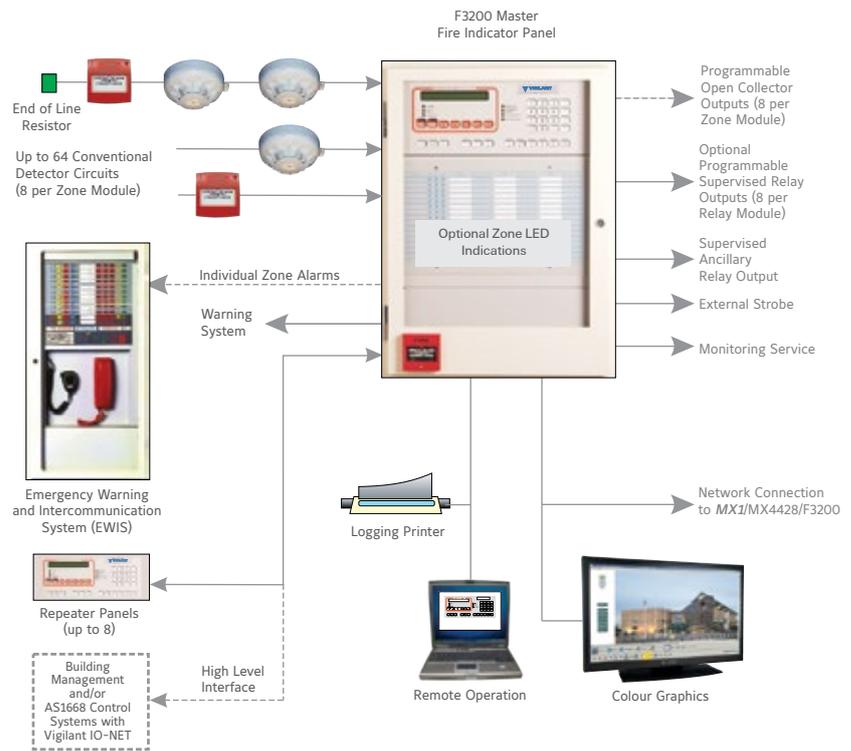
The VIGILANT F3200 is specifically designed to provide reliable operation. It employs modern electronic technology put together with specialist fire detection equipment design expertise. Detector circuits, power supply, warning system, external bells and ancillary outputs are supervised as required by fire alarm standards. In addition, the F3200 employs automatic test techniques to verify that it is functioning correctly. Fuses on all battery-backed power supply outputs are supervised for continuity. A supervisory "Watchdog" monitors system processor operation.

## Easily Expanded

A minimum F3200 has one 8-Zone Module fitted, allowing it to monitor up to 8 alarm zone circuits. Further Zone Modules can be added to expand it to 64 zone circuits. External mimic displays are easily implemented using the programmable open collector outputs on each Zone Module.

Standard monitoring service signalling relay outputs are available, and further relay outputs may be added by installing Relay Modules. Each Relay Module provides eight programmable relay outputs with individually selectable supervision. A combined total of eight Zone and Relay Modules is allowable in a system.

Remote repeater LCD displays or mimics, colour graphic displays and a logging printer may also be added. Interfaces to EWIS and BMS are also available. Up to 64\* panels may be networked using RS485 over copper pair or fibre optic cabling; or IP networking over copper or fibre optic cable. This adds extra flexibility, particularly for larger wide area sites.



*F3200 System Design*

## Features And Options

- Compact and attractive cabinet range – 19" rack compatible
- Clear alarm messages on LCD alphanumeric display
- Control panel with "Firefighter Facility" complies with AS 4428.1
- Optional zone LED display
- Outputs for local mimic panel
- Remote repeater panels and mimic panels may have LCD and/or LEDs
- Multiple panel networking options
- Colour Graphics display option
- "Tandem" mode provides dial-in control panel access for remote operation and diagnostics
- Low power consumption
- Integral power supply/battery charger (3A or 6A)
- Easy to install and service
- Demountable terminals for efficient servicing and accurate cable identification
- Comprehensive test facilities
- Automatic panel self tests
- Automatic battery connection and capacity tests
- Automatic daylight saving time adjustment
- Field programmable
- Supervised front panel MCP
- Wide range of compatible detectors including IS types
- AS 1668 air-handling, smoke detection and control
- Valve tamper monitoring (type A security)
- Wide Fire Brigade system compatibility
- Supervised outputs for ancillary services, door holders, etc
- Interface for EWIS, BMS, etc
- Built in clock/calendar
- Event logging to internal history file and optional printer
- Two fuse-protected battery backed supply outputs (fuses supervised)
- Mounting for T-Gen60 emergency warning system



Control Panel Layout

## Easy to Network

Two networking options are available to enable the F3200 to network with other compatible fire alarm systems:

- RS485 Panel-Link networking using I-HUBs over copper pair or fibre optic cable
- IP networking using PIBs over fibre optic cable or copper pair using Ethernet Extenders

Both options allow:

- A local F3200 panel to display and control alarms from remote systems
- A "master" networked panel to perform fire brigade signalling for selected "slave" panels using networked master alarm status
- "Tandem" mode operator access to all panels on the network
- Remote access diagnostics and operation of the system from off-site
- Sharing of warning system and network variable status

Network-compatible products include: MX1\*, MX4428, F3200 panels, mimic panels (NLDU), Network Display panels (NDU), Compact Firefighter (FF) display, Nurse Station Annunciator (NSA), XLG-C/S colour graphics, Panel-Link Modbus Bridge (PMB), QE90 EWIS panel and event printers.

If an MX1 panel is used as the master panel, up to 250 sub-panels (including the F3200) can be networked together into one large system.

## Easy to Program

Configuration for a basic fire alarm system is automatic with minimal programming necessary. Systems utilising a variety of input device types and more sophisticated control and timing functions, may be programmed either via the F3200's front panel or through an external personal computer. Timers, Boolean logic expressions and variables provide powerful programmability allowing a wide range of monitoring and control functions to be configured.

The configuration can be printed and also uploaded to disk for later downloading.

Site-specific configuration parameters are stored in non-volatile flash memory, which remains protected even if the system's power supply is removed. Programmed information is access code protected, with ten programmable codes available to allow access by different users to be individually logged.

## Easy To Operate

Operation is straightforward with the F3200's keypad and alphanumeric LCD. The 40 character, 2 line LCD zone control panel meets the AS 4428.1 "Firefighter Facility" (FF) requirements. Next and Prev keys allow easy scrolling through the 99 event alarm buffer, while all current alarms, faults and isolated zones can be separately recalled.

An internal history log stores the previous 400 events (800 with printer buffer disabled), and these can be recalled to the LCD display at any time. "Tandem" mode enables the panel to be operated from a remote computer for diagnostic or remote monitoring purposes.

The optional easy-to-read English language printer output with system name heading each page, 30 character zone name, and date/time stamp, allows rapid tracing of events.

## Detector Compatibility

The F3200 is compatible with hard contact devices and a wide range of "20 volt" industry-standard detectors including the range of VIGILANT 614 and Simplex 4098 detectors, and many others. A full list of currently approved detectors is contained in the Device Compatibility Guide.

## Specifications

### System Capacity

FIP Capacity:	Up to 8 modules, each module being either an 8-Zone Input Module or an 8-Relay Output Module
Firefighter Facility:	2 Line 40 Character LCD display provides 30 character text message for each alarm. Complies with AS 4428.1
Zone Indications:	Optional, up to 64 Alarm, Fault, Isolate LEDs in 15U cabinet, up to 528 zones maximum with additional cabinets
Programmable Outputs:	8 on each Zone Module, transistor pulldown (1.1V) 8 on each Relay Module. Monitoring Service Relays, Warning System, Ext.Bell/Strobe and
Ancillary	relays are also programmable
Repeater Panels:	Up to 8. More if mimic only (i.e. no controls)

### Fire Indicator Panel

#### Physical

Cabinet Size (mm):	750H x 550W x 230D (small cabinet option 440H)
Cabinet Material:	1.2 mm mild steel. Baked epoxy powdercoat finish: Cream Wrinkle BFF998CW. Polycarbonate membrane keyboard facia
Style:	Wall mounting. Outer door hinges left (003 key lock) to access controls. Inner door hinges right. Ingress Protection IP30
Shipping Weight:	22 kg (without batteries)
Temperature:	-5°C to 45°C operating
Humidity:	Up to 95% RH (non-condensing)
Power Supply	
Mains Supply:	240Vac +6% -10%, 50 Hz, 150VA
Internal Battery:	2 x 12V, sealed lead-acid, capacity up to 40Ah
Internal Charger:	27.3V (nominal), 3A (6A option), regulated, temperature compensated
Battery Monitoring:	Charger high/low, battery low/fail, timed capacity tests

#### Inputs

Alarm Zone Circuits:	20V nominal, conventional detector circuits. Four modes: Standard, High Current, Low Current, Tamper
FIP MCP:	Supervised with programmable zone mapping
AZC Input Terminations:	De-mountable screw terminals, 1.5 sq mm cable capacity

#### Outputs

Monitoring Service Relays:	Alarm, Fault, Standby, Isolated; 5A, 30Vdc resistive
Ancillary & Ext. Bell/Strobe:	2A, 30Vdc resistive. Supervised switched 24V or voltage free
Warning System:	2A, 30Vdc resistive. Supervised (polarity reversal) switched 24V; battery backed
Zone Module Outputs:	8 programmable 100mA transistor pull-down (1.1V)
Relay Module Relays:	Single pole 2A, 30Vdc (2 pole option available). Link selectable supervision
RZDU Comms:	Communications port for connection to repeater panels
Printer:	Pseudo RS232, Xon/Xoff, Selectable 300 to 9600 baud, 8 data bits, no parity, 1 stop bit
Ancillary Supplies:	2 x 24V, battery-backed, 2A load 1 x 28V, 2A; non battery-backed, fused

### Remote LCD Module

Cabinet Size (mm):	Wall Mounting: 177H x 450W x 50D (75D option)
Flush Mounting:	220H x 500W x 75D
Cabinet Material:	1.2 mm mild steel. Baked epoxy powdercoat finish: Grey Gloss PR12/816C. Polycarbonate membrane keyboard facia
Style:	Low profile wall mounting or flush mounting options; door hinges left (003 key lock)
Shipping Weight:	3 kg
Power Supply:	24Vdc, supplied from FIP

### Networking

Capacity:	Up to 64* panels per network
I-HUB:	RS485 / fibre ring
IP (Internet Protocol):	Uses PIB and Ethernet Switch over fibre ring plus Ethernet Extender for use over copper pair.

\* Using *MX1* as the main FIP, up to 250 panels (*MX1/MX4428/F3200/NDU* etc.) may be networked together using I-HUB with copper or fibre optic ring, or over IP using the PIB with copper or fibre optic cable.

## Programming Options

The following functions can be programmed:

- Zone/Ancil/Circuit facilities:
  - Zone enable/disable
  - Zone Identification Text
  - Alarm Type Text including MCP override
  - Zone to LED mapping
  - Normal zone operation
  - Flow Switch (variable delays)
  - Air Conditioning (variable time delays)
  - Sprinkler Valve Tamper
  - Alarm Verification
  - Ancillary Control
  - Latching/Non-latching
  - Monitoring Service/Indication only Status (no indication)
  - Output Supervision enable/disable
  - Output Supervision Fault latching/non-latching
  - Mapping to Monitoring Service, Ancillary, Ext. Bells/Strobe, Warning System outputs
- Output Logic Programming:
  - Variables and Timers
  - Boolean AND, OR, XOR, NOT
  - Daylight Saving
- System commands:
  - Time/date
  - Diagnostics
  - Database Upload/Download
  - Text download to LCD Repeater Panels
  - Adjust global settings:
    - Access code, System name, FF mode, Printer Setup, Automatic test times/dates
- Repeater Panel Programming
  - Zones displayed on LCD/LED
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  - Global or local key functions
  - Internal/external power supply
  - Local Monitoring Service Relay operation

## Approved

F3200 is certified to AS 4428.1 - 1998: "Fire detection, warning, control and intercom systems - Control and indicating equipment, Part 1: Fire".  
ActivFire Listed afp-789

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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of *MX TECHNOLOGY* fire detection products and the market-leading QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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