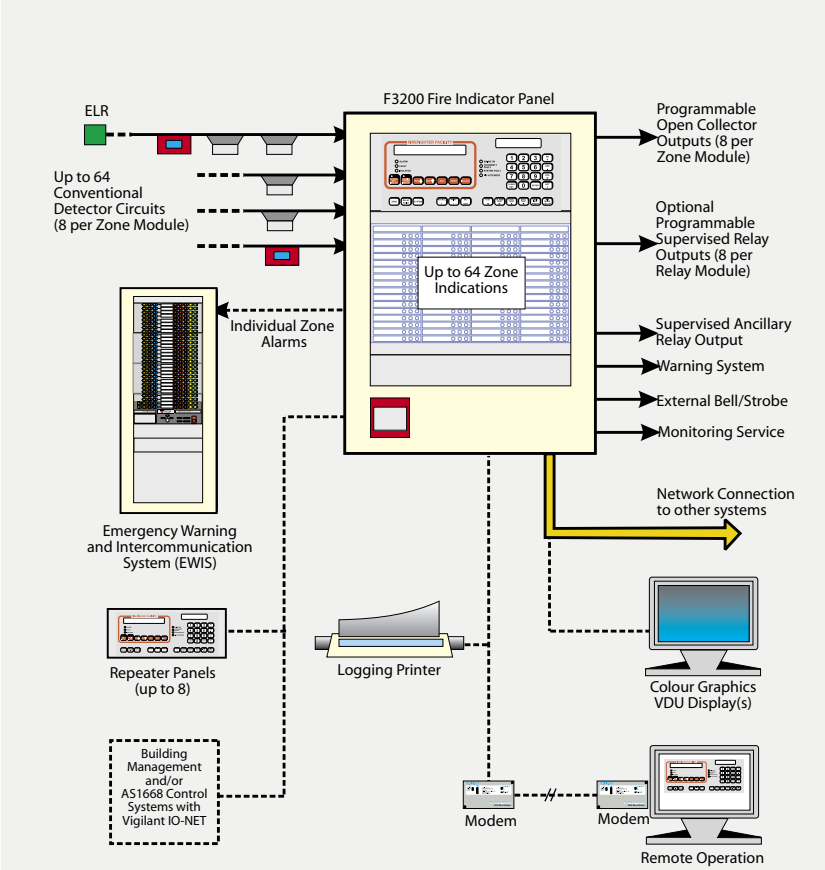
# Vigilant F3200
# Fire Indicator Panel

*The VIgilant F3200 is an advanced Fire Indicator Panel 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 and its extensive field programming facilities make it suitable for a wide range of fire protection applications.*

- Certified to AS 4428.1
- LCD and optional zone LEDs
- Compatible with a wide range of detectors
- Expands up to 64 zones
- Versatile input monitoring
- Easy to operate
- Fully field programmable
- Networking option
- Low profile remote LCD repeater/mimic
- AS 4214:2002 Gaseous Fire Suppression System options

## Features & 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 option.
- 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.




*F3200 System Diagram*

- 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).

## Reliable

The F3200 is specifically designed to provide reliable operation. It employs up-to-date 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, and an optional networking facility adds further flexibility, particularly for larger wide-area systems.

## Network Option

A Panel-Link Network upgrade enables the F3200 to network with other compatible fire alarm systems.

- A local F3200 panel may display and control alarms from remote systems.
- A "master" networked panel may perform fire brigade signalling for selected "slave" panels using networked master alarm status.
- Remote Warning Systems may be activated and/ or isolated.
- Network Variables enable network-wide output logic.
- Operation possible over a variety of media: 2-wire or 4-wire RS485, modem and fibre optic options.
- Network-compatible product family includes: F3200 panels, mimic panels (NLDU), Network Display panels (NDU), computer colour graphics, Panel-Link Modbus Bridge (PMB), QE90 EWIS panel, event printers and I-Hubs for network expansion.
- "Tandem" mode allows dial-in operator access to all panels on the network.

## Easy to Operate

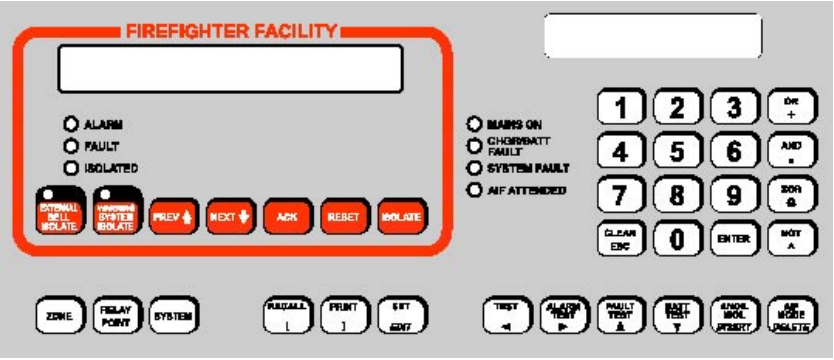
Operation is straightforward with the F3200's keypad and alphanumeric LCD. The 40 character, 2 line LCD zone control panel meets the AS 4428.1 "Firefighter Facility" (FF) requirements. Next and Prev keys allow easy scrolling through the 99 event alarm buffer, while all current alarms, faults and isolated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

## Control Panel Facilities

- Firefighter's controls (FF):
  - Acknowledge
  - Reset
  - Isolate
  - Prev/Next
  - Warning System Isolate
  - External Bell/Strobe Isolate
- Recalls (local and network):
  - Alarms
  - Faults
  - Isolates
  - History
  - Zone Status
  - System Status
- Alarm Zone functions:
  - Alarm Test
  - Fault Test
  - Zone Isolate
  - Zone Reset
  - One person detector "in situ test" (auto-reset)
- Output (Relay & Ancillary) functions:
  - Test
  - Isolate
  - Reset
- System test functions:
  - Battery
  - Lamp
  - System
  - Ext. Bell/Strobe
  - Warning System




*Control Panel Layout*

- Other system functions:
  - System Fault Reset
  - Print History, System Status, Database, Output Logic
  - Save/Verify Database

## Repeater Display Facilities

- Firefighter's controls (FF)
- Recalls (local only):
  - Alarms
  - Faults
  - Isolates
  - History
  - Zone Status
  - System Status
- Alarm Zone functions:
  - Zone Isolate
  - Zone Reset
  - Alarm Test
  - Fault Test
- System functions:
  - Battery Test
  - Lamp Test
  - Self-test
  - Fault Reset

## Fully Field-Programmable

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.

## 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

# 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. |
| 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. |
| 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. Bells/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 switch 0V (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<br>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. |

- 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
  - Zone to LED mapping
  - Global or local key functions
  - Internal/ external power supply
  - Local Monitoring Service Relay operation

## Detector Compatibility

The F3200 is compatible with hard contact devices and a wide range of "20 volt" industry-standard detectors including the Minerva and Tyco 614 ranges and Simplex 4098 range. It is also designed to be compatible with many Cerberus, Apollo, Hochiki, Flameguard and Nittan detectors and can be used with 3-wire or 4-wire infrared/ UV flame and Optical Beam detectors. A full list of currently approved detectors is available on request.

## Approved

The F3200 is certified to Australian Standard AS 4428.1- 1998: "Fire detection, warning, control and intercom systems - Control and Indicating Equipment, Part 1: Fire".

CSIRO ActivFire Listing Numbers:

| | |
|---|---|
| Tyco | afp-789 |
| Simplex | afp-1421 |

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