# VIGILANT
## FIRE & EVACUATION SYSTEMS

# *ALPHA* 1 Fire Alarm System

The Vigilant *ALPHA* 1 fire alarm system is ideal for smaller buildings where a brigade connection is not required. The control panel is compact and neat in appearance, suitable for mounting in a wide variety of areas.

Microprocessor technology enables some of the advanced features usually associated with larger, more elaborate fire alarm systems to be incorporated in the control panel design.

When used with high quality fire detectors, manual call points and alerting devices, *ALPHA* 1 provides fire alarm systems that are both reliable and easy to operate. They are also simple to install, test and maintain.

## Applications

*ALPHA* 1 is the ideal choice for small buildings such as:

♦ Motels

♦ Boarding houses

♦ Hostels

♦ Town houses

♦ Factories

♦ Warehouses

♦ Churches

♦ Community centres.

## Complies with NZ Building Code and NZS 4512

*ALPHA* 1 complies with the NZ Building Code requirements for fire alarm systems where fire safety precaution type 1 is specified. It also complies with NZS 4512: 1994 Part 3 and is FPIS listed for use in non-monitored manual fire alarm systems.

## Features

• Single keyswitch for Silence alarms, Trial Evacuation and Reset.

• 3 month battery standby, ideal for use in remote areas.

• Compact cabinet (227W x 248H x 89D).

• Four detector circuits for easy wiring throughout a building.

• Four circuit indicators to quickly locate alarm origin.

• Detector circuit wiring is supervised for faults.

• Alerting device wiring may be supervised for faults.

• Alerting device wiring easy to run in up to three branches while maintaining full fault supervision.

• Internal mains power supply with automatic battery backup.

• Battery voltage and capacity regularly monitored to ensure that standby battery is ready at all times.

• Defect sounder provides audible indication of fault conditions.

• Flashing cadences on external indicators show the source of faults and other system conditions.

• Non-latching test mode for quick, efficient testing.

• Compatible with a wide range of input devices:
  -Manual call points
  -Heat detectors (normally closed contacts)
  -Four-wire smoke detectors (12 volt).

# *ALPHA* 1 Fire Alarm System

## Specifications

### General

| | |
|---|---|
| Dimensions (mm): | 227W x 248H x 89D. |
| Cabinet material: | 1.2mm mild steel. |
| Cabinet finish: | Baked epoxy powdercoat. Polycarbonate control panel facia. |
| Colour: | Cream wrinkle BFF998CW. Blue on grey control facia. |
| Mounting Style: | Surface mounting. Inset mounting also possible. |
| Service clearance: | Sides- 250mm left, none at right; Front- 1m from door. |
| Cabinet Door Catch: | Snake eye security screw. |
| Cable entry: | 2 x 20mm knockouts, top, bottom & rear of cabinet. |
| Weight: | 1kg (without battery). |
| Operating Temperature: | 0°C to 45°C. |
| Storage temperature: | -20°C to 70°C. |
| Humidity: | 0 to 95% RH, non-condensing. |

### Power Supply

| | |
|---|---|
| Mains input: | 230Vac ±10%, 50Hz, 6 watt. |
| Battery: | 12V, 6.5 Ah sealed lead acid (not supplied). |
| Charger: | 13.65V (nominal), 300mA regulated. |
| Supervision: | Defect at 12.2V. |
| Automatic battery test: | Daily to requirements of NZS 4512. |

### Inputs

| | |
|---|---|
| Detector circuits: | 4 detector circuits total, each with 2k7 resistor end of line monitoring. All circuits compatible with clean contact, normally closed thermal/manual detectors and/or 4 wire smoke detectors. Option to allow normally open (close on alarm) clean contact detectors. |

### Outputs

| | |
|---|---|
| Evacuation: | 12V, 3.5A. Supervised in up to 3 branches. Can be configured for uncommitted changeover relay contacts; 30V, 5A. |
| Detector supply: | 12V 0.5A. Fused for use with 4 wire smoke detectors. Supply is interrupted by Silence Alarms/Reset key switch to reset detectors. |

## Part Number for Ordering

FP0673       *ALPHA* 1 Fire Alarm Panel.

## Operation

An alarm is triggered by the operation of an initiating device: a manual call point or a heat or smoke detector. When this happens, a circuit LED on the control panel will light to indicate the source of the alarm. The alerting devices will also latch on.

After an alarm has been investigated and all necessary action taken, the system must be silenced, then returned to normal.

To silence the control panel, operate the "Silence Alarms/Reset" keyswitch on the front panel. The alerting devices will remain off as long as the keyswitch is left in the operated position. Once the initiating devices have been restored, returning the keyswitch to normal will reset the system to normal: ready for another alarm.

To sound the alarms from the control panel (e.g. for a Trial Evacuation), operate the keyswitch for about one second, then return it back to normal. The alerting devices will start until silenced by a further operation of the same switch.