



Remote Display Unit

The Vigilant Remote Display Unit (RDU) is a fire alarm repeater panel compatible with the Vigilant F4000/F3200 range of fire alarm systems. It provides alphanumeric display of alarms on a 2 line by 40 character LCD and keypad. The display and keypad format is similar to that on the F4000 and F3200 panels. The RDU's programmability enables remote displays to be configured for a variety of purposes using various modes of operation and freely programmable zone display mappings.

Three cabinet styles are available for the RDU - full cabinet, small cabinet, and low profile. The full size cabinet option has an LCD with built-in master alarm (MAF), ancillary and bell relays, power supply with space for batteries and has room for fitting (optional) LED zone displays. The small cabinet option has all the features of the full cabinet version, but LED zone displays cannot be fitted within the cabinet.

The low profile option has the LCD and keypad only and no MAF, ancillary or bells relays are fitted. This option must be powered from an external power supply.

Wide Range of Applications

- Remote annunciation and control of all or selected zones of a fire detection system.
- FFCIF at fire brigade attendance points remote from the main FIP.
- Site, sector or floor mimic panels.
- Remote event logging using the RDU printer port.
- Gas flood system control.

Low Profile Cabinet Option

The low profile cabinet option is ideal for mounting on the wall in foyers, manager's offices, control rooms and the like. The full range of controls are available and the display is easy to read, yet the unit takes up a minimum of space and is unobtrusive in appearance.

The three-position double-action cabinet lock protects the control panel against unauthorised operation and provides service access to the electronics.

If required, external LED Display Boards may be driven from a connector provided within the low

profile unit. Using this facility, custom mimic displays can be easily configured.

Fully Field Programmable

The LCD and keypad provide the programming interface for the RDU. An access code must be entered before changes can be made to the system database, although first level operator data such as time and date may be entered with key access only.

Once accessed, a system of built-in option menus leads through the programming process.

Programming Options

Programming options include:

- Site name text (40 characters).
- Zone name text (30 characters).
Designation of zones as alarm or relay types.
- Mapping of zones to the LCD.
- Mapping of zones to LED Displays or Relay Drivers (including multiple zones mapped to 1 LED).
- Mapping of zones to the brigade relays, bells and the two ancillary relays (not possible for the low profile cabinet option).
- Configuration of a manual call point on or adjacent to the RDU.
- Enable/disable supervision of the Ancillary and Bells relay outputs.
- Configuring the printer.
- Saving/restoring the RDU Database to/from an external computer.

Programmable Operating Mode

The exact method of operation of the RDU depends on the operating mode programmed. Operating modes available range from direct mimic of alarm messages (for driving mimic panels, with or without local acknowledge), to remote control of the Fire Indicator Panel. In the latter case, a full AS 4050 (int.) compliant FFCIF (Fire Fighters' Control and Indicating Facility) is provided. This ensures ease of operation by operators with only basic training.

Commands to isolate and de-isolate zones, ranges of zones and the Bells and Ancillary outputs of the fire indicator panel can be entered at the RDU and these will be actioned at the fire indicator panel. The Brigade Test key can also be programmed to control the MAF Alarm relay at the RDU and at the fire indicator panel.

Other keypad commands available in all modes of operation include: recalling zone status, alarms, faults, isolates, system faults and the RDU configuration; and testing local memory, battery, buzzer, and display. The MAF and ancillary relays fitted to the full size and small cabinet options may also be isolated and tested from the keypad.



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Specifications

General

Operating Temperature: -5°C to 45°C Ambient.
 Relative Humidity: 95% maximum at 40°C (non-condensing).
 Display Type: FFCIF to AS 4050 (int) and AS 1603.4. LCD: 2 lines of 40 characters, character size 5.5 mm (H) x 3.2 mm (W), viewing angle 35°. FFCIF and Status LEDs standard; optional zone LEDs.

Low Profile Cabinet (FP0559)

Cabinet size (mm): 177 H x 450 W x 50 D.
 Cabinet Material: 1.2 mm mild steel.
 Cabinet Finish: Baked epoxy powdercoat. Polycarbonate membrane keypad facia.
 Cabinet Colour: Grey PR12/816C
 Cabinet Style: Wall mounting low profile; display mounted on left hinged door (003 key lock).
 Shipping Weight: 3 kg.
 Power Supply: External 24Vdc, 19 mA quiescent, 78 mA alarm.

Inputs

RDU MCP: Supervised, 10k ohms EOL.
 RZDU Comms: F3200/F4000 compatible.

Outputs

Printer: Pseudo RS232, Xon/Xoff, 300 to 9600 baud.
 LED Display: Up to 33 externally mounted LED/Relay Boards.

Full Size Cabinet (FP0558) & Small Cabinet (FP0585)

Cabinet size (mm): 750 H x 550 W x 210 D (FP0585 440 H).
 Cabinet Material: 1.2 mm & 1.6 mm mild steel.
 Cabinet Finish: Baked epoxy powdercoat. Polycarbonate membrane keypad facia.
 Cabinet Colour: Cream Wrinkle BFF998CW.
 Cabinet Style: Wall mounting, accepts 19" rack equipment. Left hinged outer door with large window. 003 key to access controls. 4 U LCD/keypad on right hinged inner door.
 Shipping Weight: 22 kg (FP0585 18 kg).
 Mains Supply: 240Vac +6% -10%, 50Hz, 150VA.
 Internal Battery: 2 x 12V, sealed lead acid, capacity up to 40 Ah.
 Internal Charger: 27.3V (nominal), 3A, regulated, temperature compensated.
 Current Consumption: 44mA quiescent, 152mA alarm at 24V dc (with no LED Displays fitted).

Inputs

RDU MCP: Supervised, 2k7 ohms EOL.
 RZDU Comms: F3200/F4000 compatible.

Outputs

MAF Relays: Alarm, Fault, Standby, Isolated; 5A, 30Vdc resistive. Ancillary (2) supervised; 2A, 30V dc resistive.
 Bells: Supervised, switched 24V; battery-backed, 2A, 30Vdc resistive.
 Printer: Pseudo RS232, Xon/Xoff, 300 to 9600 baud.
 LED Display: Up to 33 LED/Relay Boards may be driven; 4 in full cabinet (FP0558).
 Ancillary Supplies: 2 x 24V, 2A; battery-backed, fused. 1 x 28V, 2A; non battery-backed, fused.

Flexible Zone Configuration

The RDU zone configuration offers a flexible range of options. It can be programmed to process any selected zones with no requirement for these to be in a contiguous group. Alternatively RDUs can be configured to display all zones. In this way each RDU in a large system can be assigned to display exactly the zones required at that location.

Compatible with Existing Systems

Because the text messages displayed on the LCD are programmed locally, the RDU can be used to add LCD facilities to any existing Vigilant F4000 compatible fire alarm system. This achieves enhanced operation with an LCD even for existing fire alarm systems which do not have an LCD at the main fire indicator panel.

Event Logging Facilities

If required, a printer may be connected permanently to the RDU to give time stamped hard copy of all events as they occur. An internal printer event queue prevents loss of events if the printer is temporarily disconnected. Regardless of whether a printer is used or not, all events displayed at the RDU are also logged complete with time/date stamp to an internal history file. This file stores the last 70 events, and can be readily recalled on the LCD display or dumped to the serial port on command from the control panel. The printer port may also be used to obtain a printout of the RDU database, and the real time system status.

Part Numbers for Ordering

FP0558	FP, RDU, Full Cabinet
FP0585	FP, RDU, Small Cabinet
FP0559	FP, RDU, Slimline, Wall Mount

The Remote LCD Display Unit is a product of Vigilant Fire & Evacuation Systems.



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