

## Feature

- ✧ Addressable fire alarm control panel
- ✧ LPCB approved to EN 54-2 and EN 54-4.
- ✧ 17-inch touch screen and touch-sensitive buttons is used for HMI and 18 LED for status indication.
- ✧ Support Class A loop wiring mode and Class B star wiring mode.
- ✧ Maximum 4 detection loops, each loop has 256 addressable devices in Class A mode and 512 addressable devices in Class B mode.
- ✧ 36 Zone indication for Fire, Fault,Disable.
- ✧ VI-6847 has passed the optional requirement of EN54-4 that It can control FPE equipment, and detecting fault status from FPE.(Fire protection equipment such like : Water system, ventilation system, fire extinguish system etc.,)
- ✧ 2 original programmable sounder output terminal for conventional sounder.
- ✧ 6 original programmable output for FPE device.
- ✧ 24V/3A Auxiliary power supply output for remote device.
- ✧ An additional NET card can enable networking through CANbus.
- ✧ Ture peer-to-peer (P2P) networking, it can support up to 128 FACPs (VI-6847) being interconnected.
- ✧ It is possible to preview the status of the entire fire alarm system through any FACP within this network.



## Description

The VI-6847 is an expandable fire alarm fire alarm control panel.It can expand the loop addressable point capacity and fire alarm system networking capabilities through loop cards and network cards.

The touch-sensitive LCD screen and icon-based buttons conform to the mainstream system operation process, which is very clear and intuitive, and easy to use.

The standard VI-6847 fire alarm control comes with one loop(expandable to four),two programmable sounder output, rated at 1A each, three programmable Pro-I/O can control FPE devices.It can achieve Input/Output (I/O) circuits after connecting to the VI-6159 terminal box.

The maximum communication distance for each loop can reach up to 1,500 meters.

## Technical data

AC Main power:	1.7A@200~240VAC,50/60Hz 3.0A@100~120VAC,50/60Hz
Standby Current:	≤1.5A   Max. a En54-4
Alarm Current:	≤2.5A   Max. b En54-4
Battery:	The enclosure of panel can accommodate two standard-sized 12V/7AH batteries connected in series.
Temperature range:	-10℃ ~ 50℃
Humidity:	≤95%RH, (40±2℃) No condensation
Loop:	Default 1 loop with 512 points Maximum 4 loop with 2048 points
Sounder output:	2 Programmable conventional sounder output.Rated @ 1 amp each
Pro I/O output:	Needs VI-6159 Terminal box for Programmable Remote I/O control.
Alarm output relay:	1A at 30VDC
Fault output relay:	1A at 30VDC
Network:	CANbus, Baudrate @10k
Dimension:	480*355*120mm
Weight:	7.5kg(Without batteries)

## Fire detection devices with VI-6847 FACP

Device	Description
VI-6627 Digital Smoke Detector	VSAIL Addressable Photoelectric Smoke Detector,combined with four sensitive modes.It can be managed by FACP.LPCB approved to EN54-7.
VI-6637 Digital Heat Detector	VSAIL Addressable Heat Detector, it incorporates A1R and A2 two detection modes,It can be managed by FACP, where R indicates rate-of-rise characteristic. A temperature alarm will be triggered when the rate of temperature increase reaches a certain parameter. LPCB approved to EN54-5.
VI-6647 Digital Multi-sensor Detector	VSAIL Addressable Multi-sensor Detector,It features both temperature and smoke detection, but only occupies one loop address point. The heat detector comes with two modes, A1R and A2, which can be switched.LPCB approved to EN54-5 and EN54-7.
VI-6657 Digital Manual Call Point	VSAIL Addressable MCP,Pressing white front panel can manually trigger the fire alarm.It has an IP43 level of protection and uses a special key to reset.LPCB approved to EN54-11.

## Notification devices with VI-6847 FACP

Device	Description
VI-6737 Digital Sounder Beacon	VSAIL Addressable Sounder that combines with high light LED.It has 16 kinds of tones that can be switched on the fire alarm control panel.LPCB approved to EN54-3
VC-6734 Conventional Sounder Strobe	VSAIL Conventional Sounder that combined with high light LED. It has 16 kinds of tones that can be switched on D.I.P of the Sounder.LPCB approved to EN54-3
VI-6762 Digital Fire Repeater	VSAIL Addressable Fire repeater,that equipped with 4.3 inches touch screen for graphic display.It can be applied in stairwells or at room entrances to remotely display information from all fire alarm control panel but only occupy one Address point in loop.
VE-6751 GAS Releasing Sign	GAS releasing sign driven by 24VDC power supply.It can connect with the Sounder output terminal of FACP.It should be activated when fire extinguisher discharged and gives feedback signal. We can set this function by programming.

## Modules with VI-6847 FACP

Device	Description
VI-6717 Digital Monitor Interface	Addressable input module,LPCB approved to EN54-18
VI-6727 Digital Control Interface	Addressable input and output module,with 30VDC/1A capacity relay LPCB approved to EN54-18
VI-6777 Digital Isolator Interface	Isolator modules for short circuit protection in detection loop.Every 32 front-end devices are connected to one isolate module,.It does not occupy a loop address,LPCB approved to EN54-17

The VI-6847 Fire alarm control panel can connected with up to 2048 address points in any combination.Recommended to use LPCB certified 1.5mm<sup>2</sup> twisted pair cable for detection loop.The bus length of each detection loop should not exceed 1500 meters.

## Accessories

Device	Description
VI-6157 Loop Card	Loop expansion card, a single loop card can connect up to 256 devices (Class A loop wiring), and a dual loop can connect up to 512 devices (Class B tree wiring) (with LPCB certification from the UK and CE certification from the EU).
VI-6158 Network Card	The network card is used to establish peer-to-peer networking between digital fire alarm control panels, capable of accommodating up to 128 FACP.
VI-6159 Terminal Box	Connected to the VI-6847's Pro-I/O port for implementing programmable remote control. It features a standard electrical cabinet rack mounting(35mm)with a set of relay output control and input monitoring ports. If an external 24VDC power supply is connected, then the output ports will be converted into active output ports. Certificate with VI-6847 fire alarm control panel in LPCB.
VI-6537	Digital programmer. Programming addresses and other functional settings for front-end devices.

## Foreword EN54 Information

VI-6847 Digital Fire Alarm Panel complies with the requirements of EN 54-2 and EN 54-4. In addition to the basic requirements of these standards, the panel conforms to the following optional requirements.

	Option	EN 54-2 Clause
Indication	Fault monitoring of fire protection equipment	7.10.4
	Alarm Counter	7.13
Control	Delays to outputs	7.11
	Dependencies on more than one alarm signal(Type A)	7.12.1
	Dependencies on more than one alarm signal(Type B)	7.12.2
	Dependencies on more than one alarm signal(Type C)	7.12.3
	Disablement of each addressable points	9.5
Outputs	Output to Fire Alarm Devices	7.8
	Outputs to Fire Protection Equipment(Output Type A)	7.10.1
	Outputs to Fire Protection Equipment(Output Type B)	7.10.2
	Outputs to Fire Protection Equipment(Output Type C)	7.10.3