

VECTOR 1

SINGLE LOOP ANALOGUE ADDRESSABLE CONTROL PANEL



Vector 1 has been designed to provide a compact, competitively priced, single loop, analogue control panel.

The modern, robust enclosure, ensures it compliments current interior designs, while the comprehensive specification offers compatibility with a wide range of applications.

A single detection loop allows up to 126 devices using Apollo XP95 protocol, 16 zones and a maximum of 50 loop powered sounders. A unique built in peer to peer networking facility allows for useful solutions to multiple control panel installations.

The Vector supports the latest loop powered ancillary base devices from Apollo allowing programmable responses without losing addresses from the system.

The Vector is supplied with a 3 Amp switch mode power supply which uses the latest technology to meet EMC and Low Voltage directives.

Two wire, fully functional repeater panels are also available.

PRODUCT FEATURES

- Single detection loop
- Suitable for Apollo XP95 and Discovery protocol
- Networking as standard up to 16 control panels
- Up to 126 Apollo devices
- 16 zonal alarm LEDs
- 100 event memory
- 50 loop driven sounders, subject to design considerations
- 40 characters of customer text per device
- Site programmable via panel or download software
- Designed to EN54-2 & EN54-4 standards
- CE marked to comply with EMC and Low Voltage directives
- Back lit, high resolution, LCD display
- Short circuit protected loop driver
- Integral 3 Amp switch mode power supply
- Space for 7 Ah sealed lead acid batteries
- 2 common sounder circuits
- Fire, fault & remote VFCO contacts
- Fire, fault, reset, pre-alarm, silenceable fire, remote voltage outputs
- Remote control inputs
- CAN 2.0B 2 wire, fully functional repeaters
- Comprehensive menu functions
- Advanced autolearn facility
- Flush mounting bezel available

■ FCPVEC-1	VECTOR single loop analogue addressable control panel. Complete with 3 Amp switch mode power supply	■ PCK-XLK ■ FMK-XLK-A	Optional door kit with perspex window Flush mounting kit inc. cable gland plates
■ FCRPVEC-1	VECTOR repeater panel. Complete with 3 Amp switch mode power supply.	■ SWP-VEC-1 ■ PS7-12	Programming adaptor and software Battery 7 Ah 12V (2 required)

Features:

Standards Conformity

- The VECTOR 1 conforms to the following standards: EN54 Pt2 & 4 and all relevant CE requirements (EMC, low voltage etc.)

Front Panel LEDs

■ Supply healthy	■ Common Fire	■ Zone fire x16	■ Activate controls keyswitch	■ Silence / resound alarms
■ Remote active	■ Common fault	■ Alarm fault	■ Evacuate	■ Reset System
■ Remote disabled	■ System fault	■ Disables active	■ Menu	■ Scrolling controls
■ Test mode	■ Pre-alarm	■ PSU fault	■ Test Lamps	
■ Back lit LCD 2 x 40	■ More (extra events)	■ ARW	■ Mute Buzzer	

Front Panel Switches

■ Activate controls keyswitch	■ Silence / resound alarms
■ Evacuate	■ Reset System
■ Menu	■ Scrolling controls
■ Test Lamps	
■ Mute Buzzer	

Internal LEDs

■ Loop isolated	■ Loop fault	■ Reset CPU	■ Panel Address
■ Voltage fault	■ Mains fail	■ Battery start up	■ Program mode
■ Battery fault	■ Earth fault	■ Flash program	

Internal Switches

■ Reset CPU	■ Panel Address
■ Battery start up	■ Program mode
■ Flash program	

Outputs

- Two 24V, 1A fused programmable sounder outputs, End of line resistor 4k7

Switched negative outputs:

■ Common fire (silenceable)	■ Common fire (non silenceable)
■ System reset (activate for 3 seconds when reset occurs)	■ Common fault
	■ Remote fire signal (isolateable)

Volt free contacts (fused 1 Amp)

■ 2 off Common fire
■ Remote signal
■ Common fault (normally energised relay)

Additional outputs

■ Connector to serial interface	■ 1A 28V DC supply output, fused	■ 500 mA12V DC supply output, fused
■ CAN bus connection for Network		

Inputs

Remote Inputs: 24V

■ Silence alarms (latching)	■ Reset system	■ PSU clock input	■ PSU data input
■ 28V remote aux Supply input	■ Evacuate (Latching)	■ Precinct (non latching)	■ Alert (non latching)

Programming

■ Non-volatile storage for site programmable text and configuration	■ Cause and effect programming	■ 100 event memory and gold cap backed real time clock
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Menu Access Level 2

■ View active faults	■ User code protected	■ Menu Access Level 3	■ Maintenance check
■ View active disablements	■ Set Disablements	■ Autotest loop devices	■ Set manager code
■ View event logs	■ Disable loop	■ Connect to pc	
■ Set time and date	■ Disable sounders	■ Set panel parameters	
■ Go to engineer options	■ Disable zones / devices	■ Set system parameters	■ Comprehensive programming of features all available in panel menus
	■ Activate test mode	■ Monitor device responses	

Download Programming

■ Customer text messages (40 characters)	■ Zone allocations	■ Device type	■ Network responses
	■ Company name	■ Cause and effects data table	■ Panel names

Panel Loading

■ Standby 105 mA	■ In alarm 180 mA
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Power Supply Details

■ 230V 50 Hz harmonised mains supply	■ 24V 3 Amp integral switch mode power supply
■ Fully monitored	■ Connections for remote power supply

Loop Driver Circuit

■ Nominal 35v active driver circuit suitable for up to 0.5 Amp load and 0.8uF capacitance.	■ Short circuit protected	■ Fault monitored radial and parallel polling
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Recommended Devices

■ Apollo XP95 and Series 90 ranges	■ Discovery (limited support)	■ Sounders conventional or loop powered,
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Repeater Panels

- Communications with CAN 2.0B (2 wire network)

Cabling

- Recommended cable types for loop and sounders, repeaters etc.
- MICC, FP200 gold, Firetuff or other equivalent fire-resistant, screened cable
- Min Size:
 - 1.0mm - detectors
 - 1.5mm - sounders
 - 2.5mm if using > 15 loop sounders
- Max loop length 2km

Cabinet

- 1.6mm mild steel, lockable
- 20mm knockouts
- Space for 2 x 7 Ah sealed lead acid batteries
- 460w x 310h x 85 mm deep
- Removable door
- Colour reference: BS.4800 18B17 blue mink
- Recess kit cut out: 505W x 345H x 85D
- Bezel width 25mm