

VELOX 5000 Series

Fire Alarm Control Panel



Description

The VELOX 5000 series is fully expandable from 1 to 8 loops and supplied with 2, 4 and 8 and onboard sounder circuits, 20 programmable zonal LEDs with slide-in labels, and 25 System LEDs for information purposes. There are also 4 or 8 programmable function buttons with LED indication for confirmation of operation.

The control panel consists of the latest dual flash-based microprocessor technology combined with a high resolution, high contrast, graphical LCD display and tactile keypad providing a simple select and click programming aid for engineer configuration and end-user operation.

Powerful cause-and-effect programming and enhanced trace diagnostics make the panel suitable for a wide range of site applications from small to large complex multi-area systems. Fully programmable onsite via the onboard alphanumeric keypad, or Velox 5000 series configuration software.

PC Software: An extensive suite of user-friendly Windows-based PC software programs has been developed to enhance your experience when using Velox 5000 series fire panels. The suite incorporates several different programmes to include a configuration, service and logo panel tool to allow greater flexibility of the equipment to be fully explored.

Network: Simply adding a network card allows the panel to communicate with any other VELOX 4000/5000 Series fire panel, remote terminal, or network peripherals, BMS or graphical interface. The network operates as a true peer-to-peer system and can be configured in a fault-tolerant loop or radial format.

Features

- Advanced graphical LCD user interface and support for up to 200 fire zones by default allowing full EN54 compliance without additional hardware.
- Dual flash-based microprocessor technology with real-time clock onboard. Dedicated USB & RS232 serial port for direct PC or modem connection.
- Installer friendly Auto-learn, Loop Detection and On-board Scope facilities for ease of commissioning and fault finding. Graphical display configurable for virtually any language
- Robust removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- Fully programmable via the onboard alphanumeric keypad, or PC configuration tools.
- Integral 'P-Bus' for system expansion via available option cards
- Advanced networking, peer-to-peer system, with up to 2000 zones
- Programmable push buttons
- Rack-mount options
- Global compliance
- 3-year warranty Fully programmable
- Installer's logo application

Approvals

EN 54-2:1997 +A1:2006
EN 54-4:1997 +A1:2002 +A2:2006
EN 54-13:2005 (Pending)
Certified to EN54 Parts 2 & 4 by FM Approvals

Technical Specifications

Part No.	VELOX 5100 & 5200	VELOX 5400	VELOX 5800
Base Technology	Dual flash-based processors with real-time clock, trace diagnostics, programmable languages and character sets		
Display	White backlit 240 x 64 graphical LCD		
LED Indicators	22 red (1 x Fire, 1 x More Alarms, 20 x Zonal Programmable), 1 green (Power), 13 amber and 12 bicolour (Fault & System)		
Controls Protocols	Alpha numeric keypad permitting Navigation, Reset, Mute, Silence, Re-sound, Evacuate, and 4 x programmable push button		
Protocols	VELOX		
Number of Fire Zones	2000 (200 per individual panel)	2000 (200 per individual panel)	2000 when networked (400 max across 8 loops)
Number of Loops	1-2	2-4	2-8
Loop Current	500mA per loop	500mA per loop	500mA per loop
On-Board Sounder Circuits	2 x 1 Amp programmable	4 x 1 Amp programmable	8 x 1 Amp programmable
On-Board Relays	2 x 1 Amp 30v AC/DC programmable (10mA, 5v min) - expandable to 4 using 5042	2 x 1 Amp 30v AC/DC programmable (10mA, 5v min) - expandable to 4 using 5042	4 x 1 Amp 30v AC/DC programmable (10mA, 5v min) - expandable to 8 using 2 x 5042
Auxiliary Supply	1 x 24v 500mA		2 x 24v 500mA 2
Programmable Input	1 x monitored programmable input on-board		2 x On-board Programmable Input
Programmable Key Switch Inputs	8 volt free inputs		16-volt free digital inputs
Total Available Output Current	5A maximum available for loop current + sounder outputs + auxiliary supply		2 x 5A maximum available for loop current + sounder outputs + auxiliary supply
Mains Supply	200 - 240v 47-63 Hz AC (+10%, -15% tolerance) 1.4A max		
Battery Capacity	Min 24v 4Ah, Max 24v,12Ah	Min 24v 4Ah, Max 24v,18Ah	2 x 24V 4Ah internal (min), 2 x 24V, 18Ah internal (max), or 1 x 24V 45Ah internal (max) and 1 x 24V 45Ah external (max) using optional battery enclosure
Charger Current	2A temperature compensate		2 x 2.0A temperature compensated
Ethernet port	10-Base-T, 100-Base-T:		

Serial ports	1 x On-board RS232 connection for PC, modem, IP, or portable printer		2 x on-board RS232 connection for PC, modem, IP or portable printer
USB Interface	1 x USB B type connection for PC communication		2 x USB B type connection for PC communication
Programming	On-board keypad or PC running Windows tools		
Event Log	5000 event & diagnostic + 500 fire		2 x 5000 Event & Diagnostic + 500 Fire
Printer (Optional)	-	-	On-board
Networking	Optional plug in Network Card (5420 - Standard, or 5421 - Fault-Tolerant)		
Enclosure / Colour	Steel IP30 / RAL7016		
Cable Entry (20mm knockouts)	17 x top, 11 x rear & 2 x bottom, large enc. (L) - 19 x top, 11 x rear, 2 x bottom, deep	10 levels	3 levels
enc. (D) - 30 x top, 11 x rear, 3 x bottom	17 x top, 11 x rear & 2 x bottom, large enc. (L) - 19 x top, 11 x rear, 2 x bottom, deep enc. (D) - 30 x top, 11 x rear, 3 x bottom	30 x top, 6 x rear, 3 x bottom plus 2 x double knockout rear	3 levels
Metalwork Options	Flushing bezel, battery box, utility enclosure, termination enclosure and rack mount		

Order Codes

Part codes	Ordering Codes	Description
VELOX 5100	VELOX-5101M	VELOX 1 Loop Fire Alarm Control Panel ATEIS (Medium enclosure)
VELOX 5200	VELOX-5201M	VELOX 1-2 Loop Fire Alarm Control Panel ATEIS (Medium enclosure)
VELOX 5400	VELOX-5401L	VELOX 1-4 Loop Fire Alarm Control Panel ATEIS (Large enclosure)
VELOX 5800	VELOX-5802E	VELOX 2-8 Loop Fire Alarm Control Panel ATEIS (Extended enclosure)