

**VELOX** by **ATEIS**

**INNOVATION**  
**MAKING A DIFFERENCE**

CATALOGUE 2015  
Fire Alarm Systems

# BELIEVE IN SUCCESS



The ATEİS Brand name, for more than three decades, is synonymous with quality and is backed with the assurance of Responsibility and Rapid response-essential in building a strong Relationship with our clients and customers.

VELOX is the new era by ATEİS, shall service the life safety market segment in particular, and shall have the same commitment to excellence and customer satisfaction, reflecting the same quality we are known for by all our global partners.

Operating from five offices, our engineers constantly strive for excellence and outstanding performance. By maintaining its headquarters in Dubai-UAE, with support offices in Abu

Dhabi, Qatar, Kingdom of Saudi Arabia, and India, ATEİS Middle East is guaranteed to remain closer to the end user.

We deliver high-end fire alarm & mass notification systems, background music and professional audio systems that guarantee security and protection backed by high fidelity sound to provide an unbeatable combination of comfort and peace of mind.

Over decades, VELOX is built on the strong foundation of research and development in fire detection and alarm systems technology, delivered with the highest quality and safety standards, with the commitment of five years warranty.

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# NEW ERA OF INNOVATION YOU TRUST



VELOX is delivered with intuitive design, built on the foundation of innovations and features that our customers love, and delivered with unparalleled synergy along with our leading ATEIS Audio Solutions, that re- defines the term “integration” in a new form never recognized before.

A new era of fire detection is born, in many ways it is the distinction that what our customers love in our products. The full integration now is simpler, more essential and certainly more capable. We believe that VELOX integrated solution is a new experience that harmoniously integrates both audio and Fire detection. Our engineers keeps on re-defining the boundaries between them to a limit that unlikely you have ever realized before.

Today, with over a three decades of innovation, we built a new system with distinctive care and quality. Our R&D has integrated both acoustics and fire detection for the first time ever, synonymously. We believe that the VELOX is an experience. That experience is refined, and pushed to the limit to define a new technology that is simple to commission, easy to install, and user friendly.

We have set the quality bars high, by choosing Dubai Silicon Oasis-UAE as the home to manufacture and design our products. We comply to ISO 9001 across the manufacturing and design, resulting in a bespoke and vivid realization of both acoustics and fire detection on one platform; thereby, setting a new era in life safety market segment that has never been realized before.

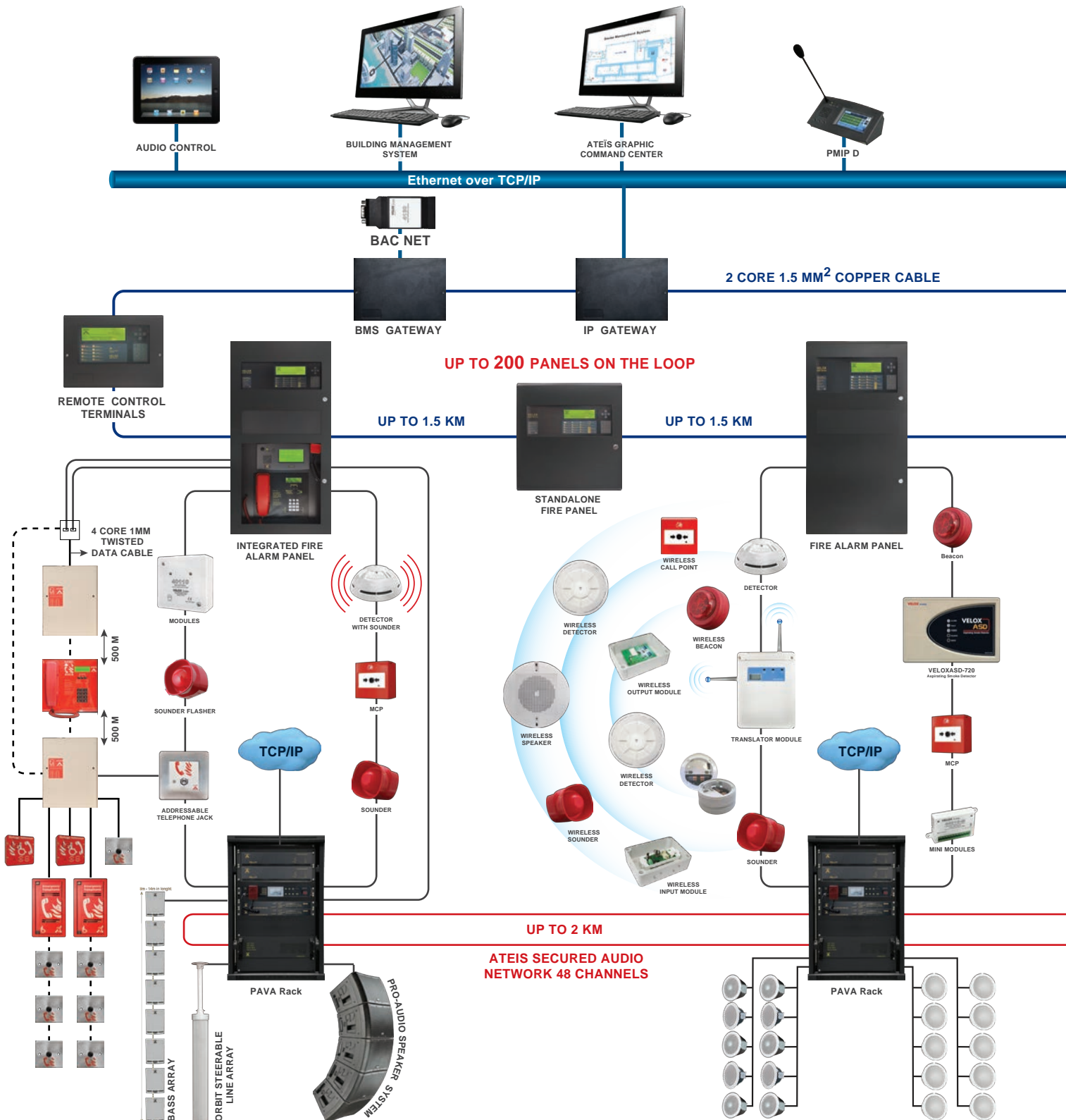


# ATEIS GROUP WORLD WIDE

Jumeirah Group selected the ATEIS brand as their preferred vendor providing life safety protection to their iconic installations across the UAE.



# TYPICAL SYSTEM DIAGRAM





ATEIS REMOTE MAINTENANCE MANAGEMENT CONTROL



BUILDING MANAGEMENT SYSTEM



ATEIS STUDIO CONTROL CENTER

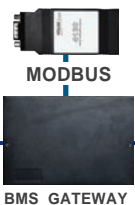


VNB IP AUDIO STREAMING

MUSIC SERVER

Ethernet over TCP/IP

2 CORE 1.5 MM<sup>2</sup> COPPER CABLE



MODBUS

BMS GATEWAY



3D Touch Mimic Panel

UP TO 200 PANELS ON THE LOOP

UP TO 1.5 KM

UP TO 1.5 KM



REMOTE CONTROL TERMINALS



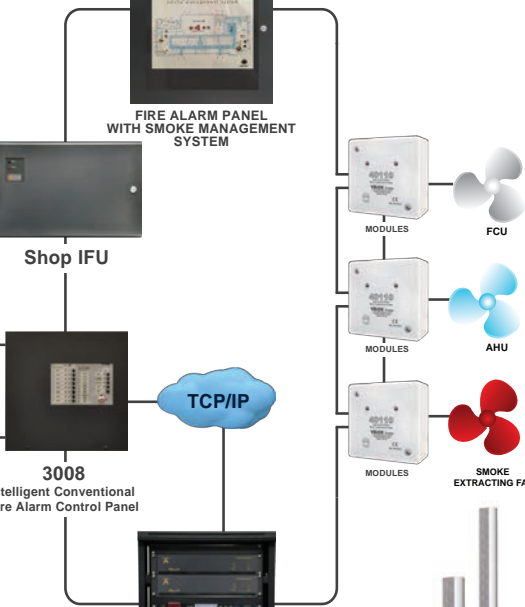
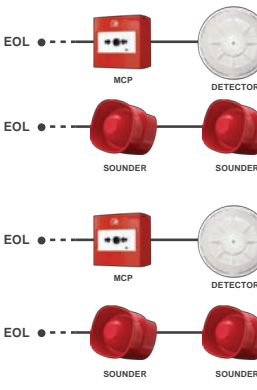
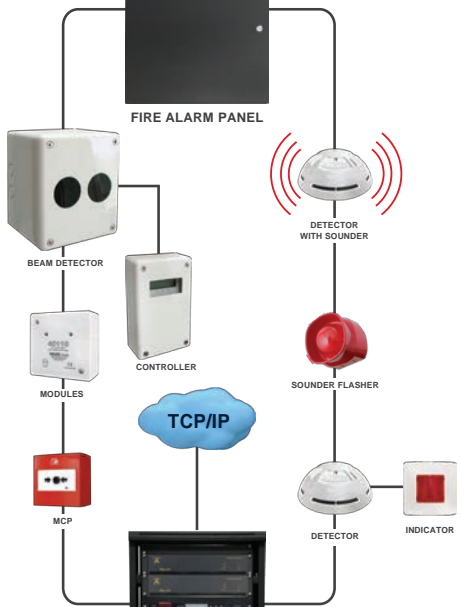
FIRE ALARM PANEL



STANDALONE FIRE PANEL



FIRE ALARM PANEL WITH SMOKE MANAGEMENT SYSTEM



UP TO 2 KM

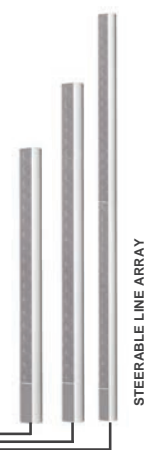
ATEIS SECURED AUDIO NETWORK 48 CHANNELS



PAVA Rack



PAVA Rack



STEERABLE LINE ARRAY

# INTELLIGENT FIRE ALARM CONTROL PANELS

**VELOX 4000 fully integrates full audio and fire detection in a seamless synergy that redefines a new era of fire detection and alarm systems. Fully complying and certified to EN54 part 2 and 4**



The VELOX 4000 series is built on decades of innovation foundation, support from 1 to 8 loops via common plug in loop driver boards.

Fully integrated with ATEIS legendary public address and evacuation systems, and can route simultaneously up to 48 audio channels of sonic audio quality that support 192Kbit/sec of audio resolution. The evacuation network can sustain up to 8,192 zones of speaker circuits, each of 1000 watt load capability like no other.

The bespoke panel is fully integrated with addressable fire-man's telephone communication system, that support up to 256 circuits, which can drive telephone jacks or addressable telephone handsets.

The system can handle 240 device per loop, and extend its loop length up to 2Km over a two core copper cable. The network can withstand up to 200 fire alarm control panels on a peer-to-peer communication, and network can be stretched on a span of 20Km over VELOX redundant network.

The VELOX 4000 can be delivered with multiple options of standard or custom made controls and LED indications to construct an LED mimic panel or smoke management control, with vivid design that sets a new era of customization.

## Features

- Compliant with BS EN54 parts 2 & 4
- 1, 2, 4 or 8 loop formats
- Up to 240 devices per loop
- Up to 1,000 fire detection zones
- Up to 200,000 devices per network
- True peer-to-peer networking
- Networkable up to 200 nodes
- Loop length extendable up to 2 km
- Up to 1000 event logs per panel for diagnosis of fault conditions
- Automatic and manual addressing features
- Complex 'Cause & Effect' programming options
- Dedicated RS232 serial port for PC or modem connection
- User-friendly menu and navigation keys
- Multiple language display options

## TECHNICAL SPECIFICATIONS

	VELOX 4200	VELOX 4400	VELOX 4800
NUMBER OF LOOPS	1-2. Expandable via individual plug-in loop driver	1-4. Expandable via individual plug-in loop driver	2-8. Expandable via individual plug-in loop driver
LOOP CURRENT	500mA		
ON BOARD RELAYS	2 x 1 Amp 30v AC/DC Programmable		
ON BOARD POWER SUPPLY	4 Amp high efficiency switched mode		5 Amp high efficiency switched mode
MAINS SUPPLY	230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp		230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.7 Amp
BATTERY CAPACITY	24v 18 Ah internal. 24v 48 Ah external		
CHARGER CURRENT	2.0 Amp DDP monitored, temperature compensated integral charger		2.2 Amp DDP monitored, temperature compensated integral charger
APPROVALS	-		BS EN54-2 & 4:1998



# INTELLIGENT FIRE ALARM CONTROL PANELS

## VELOX 4200

### 2 LOOP



- One or two loops
- Medium enclosure
- Maximum 12Ah internal batteries
- Up to 50 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Large and Deep enclosure options

## VELOX 4400

### 4 LOOP



- One to four loops
- Large enclosure
- Maximum 17Ah internal batteries
- Up to 200 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Deep and Extended enclosure options
- Options for mimic panel or smoke management system.

## VELOX 4010 - 4020

### REMOTE DISPLAY AND CONTROL TERMINALS



- Graphical LCD display
- Multiple-language support
- Simple user control
- Fully on-site programmable

## VELOX 4030 - 4035

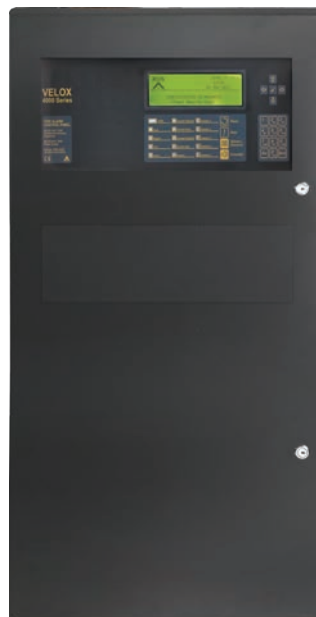
### ON-BOARD AND PORTABLE PRINTERS



- In-built battery backup
- Fast and silent operation
- Automatic and on-demand options for printing

## VELOX 4800

### 8 LOOP



- Two to eight loops
- Extended enclosure
- Maximum 45Ah internal batteries
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door and external battery box option

### MIMIC PANELS

- Simple graphical indication of local zones
- Programmable mimic driver card and LEDs
- Flexibility in replacing or updating mimic diagrams or zone layouts
- Supports Dynamics zoning
- Network connection options
- Available in custom sizes A0, A1, A2 or A3 on request

## VELOX 2100 - 2200

### ANALOG ADDRESSABLE FIRE ALARM CONTROL PANELS



- One loop or two loop options
- All devices are powered from the loop
- In-built isolator in each device
- 20 programmable zonal LED indicators.
- 4 lines x 40 characters display
- 1000 events stored in the memory
- Day / Night programming functions
- Optional TCP/IP connectivity
- Small – Medium size installation

## 4090-4094 Range

### POWER SUPPLY UNITS



- Compliant with EN54 part 4
- Available as boxed and un-boxed versions
- Switched mode power supply (1.5A, 3A, 5A)
- Onboard fault indications

# CARDS & ACCESSORIES

## NETWORK CARDS

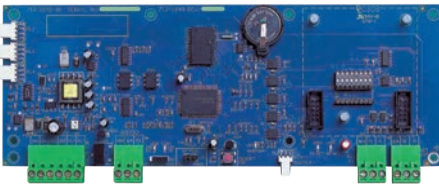
### NETWORK CARDS



The 4420 and 4421 network cards allows VELOX 4200 and 4400 fire alarm control panels to be linked with other similar panels or control and remote terminals on a single network which can be configured either from the panel or from a PC.

- True peer to peer network
- Connection of up to 200 panels on a network
- Network devices can be monitored from the control panel
- Cross-panel reporting and control
- Flexibility in adding and removing control panels and remote terminals

### BMS/GRAPHICS INTERFACE CARD



The 4120 BMS interface card allows integration of fire alarm control panels and remote terminals with building management systems (BMS) and graphics PCs.

The interface allows handling of all network traffic and event prioritization on a PC via an RS232 connection.

- Easy configuration and sector based programming via software
- Compatible with 3rd party graphics systems

### IP INTERFACE CARD



The 4124 IP Gateway Interface Card allows connection of the 4000 series of fire alarm control panels and its network to the Internet.

A standard Web browser can be used to monitor the fire network and the obtain the state of the fire panel network through visual indications.

- Configuration over the Internet
- Password protection
- Event notification via Email
- Multiple user permissions (maximum of 2 simultaneous users)
- Compatible with IE6, IE7, and Firefox 2

### BACNET/IP/MODBUS INTEGRATOR



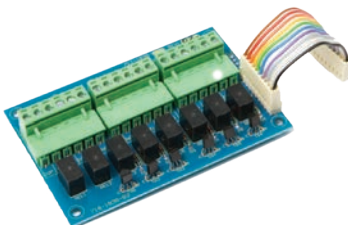
The 4130 integrator provides protocol conversion for BACNET, IP and MODBUS networks to link the fire detection and alarm network with third-party building management systems.

The protocol translator is installed with the 4120 BMS/graphics interface card to allow external BMS/graphics systems to issue commands and receive information over an RS232 bi-directional serial port. Connectivity via IP allows remote monitoring and programming.

- BACNET/IP or MODBUS/IP protocol conversion
- Provide full control on the network
- up to 400 points control

## PERIPHERAL CARD

### OUTPUT CARDS



Output cards 4042 and 4048 are 2-way and 8-way relay output devices fitted as an internal peripheral with the 4000 series of fire alarm control panels.

All outputs can be individually programmed for any specific function supported by the fire alarm control panel.

The output card provides a cost effective way to program 'cause and effect' functions.

- 8 individually programmable outputs
- Fast output response
- Cost-effective option to additional hardware
- Supports complex cause and effect configurations

## INPUT CARD



The 4148 is an 8-way input card fitted as an internal peripheral with the 4000 series of fire alarm control panels. All 8 inputs can be individually programmed for any specific function supported by the fire alarm control panel. The input card provides a cost effective way to perform latched or non-latched switching functions such as fire, fault, alarm, security, disable, evacuate and so on.

- 8 individually programmable inputs with 8 on-board green LEDs
- Fast input response for class change latching/non-latching operations
- Easily programmable via on-board keypad or PCs
- Ideal for class change or non-latching operations where fast input response is essential

## PERIPHERAL BUS ADAPTOR CARD



The 4060 peripheral bus adaptor card provides a serial interface bus for connection of a range of peripheral modules such as a general routing interface.

- Optically isolated interface
- Compatible with a general routing interface

## GENERAL ROUTING INTERFACE CARD



The 4061 general routing interface card is an optional module that provides fire and fault routing outputs. Two fire routing outputs are provided to distinguish between fire alarm signals from a manual call point (MCP) and automatic detector (AFD), if required.

- Monitored outputs to fire alarm and fault routing circuits
- Circuits are monitored for open and short circuit conditions

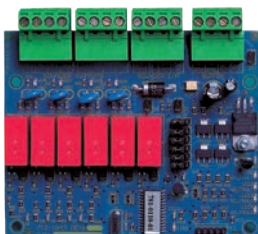
## PROGRAMMABLE RELAY CARD



The 4064 programmable 4-way relay card is an optional peripheral unit that provides four individually programmable relay output circuits. Up to 16 Cards can be connected to a multi-loop panel giving a maximum of up to 64 additional local relay outputs.

- Individually programmable outputs
- An Input is provided to monitor the fault output from a power supply

## PROGRAMMABLE SOUNDER CARD



The 4062 programmable 4-way sounder card is an optional peripheral unit that provides four individually programmable and monitored sounder output circuits. Up to 16 cards can be connected to a multi-loop panel giving a maximum of up to 64 additional local sounder outputs.

- Outputs are individually programmable and can be synchronised in pulsing modes
- An Input is provided to monitor the fault output from a power supply

## ZONAL LED INDICATOR

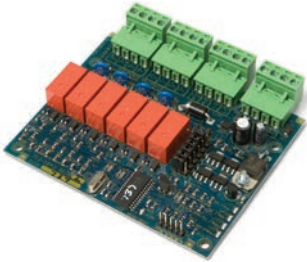


Zonal LED indicators can be mounted on fire alarm control panels to simultaneously display the status of all zones in a fire condition. The LED cards illuminate to indicate the status of zones ranging from 20-200 zones. The LED cards are available either as factory fitted to the panels or as retro fit devices. A power saving feature minimizes the power drawn from the fire alarm control panel in the event of a fire.

- LED cards support 20, 50, 100, and 200 zones
- Simultaneous display of all zones in a fire condition
- Supports Dynamix zoning
- Factory fitted or retro fit options



## SOUNDER SPLITTER CARD

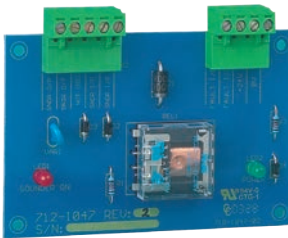


The 4070 sounder splitter card splits an input from a standard sounder circuit into 4 monitored outputs. The circuits are fully monitored for open and short circuits, and up to 1A is supplied to each circuit.

The 4070 operates in two modes, 1A and 4A splitter. The modes are selected via jumper switches on the card. In the 1A mode, the sounder splitter card derives power from the control panel's auxiliary supply. In the 4A mode, the sounder splitter card derives power from an external supply.

- Configuration over the Internet
- Password protection
- Event notification via Email
- Multiple user permissions (maximum of 2 simultaneous users)
- Compatible with IE6, IE7, and Firefox 2

## SOUNDER BOOSTER CARD



The 4072 sounder booster card provides increased sounder output capability by boosting the input signal from the sounder circuit of a fire alarm control panel. Up to 4A of sounder drive current is provided to a single circuit.

- Up to 4A on a single sounder circuit
- Boosted sounder output circuit fully monitored for faults
- On-board LEDs for fault indication

## PROGRAMMING DEVICE

### LOOP DRIVER AND ANALYZER



The 40710 loop analyser is used to interface the fire detection and alarm loop with a personal computer to test and commission the loop without using a fire alarm control panel.

The 40710 requires an external power supply, which is connected to its 24V DC terminal. When used in place of the fire alarm control panel, the 40700 supplies a loop current of 500mA to power all connected devices for monitoring and addressing the devices.

The user interface or application software on the PC allows scanning of the entire loop to identify devices and report open and short-circuit faults, automatic sequential addressing of devices, and activation of sounders and beacons.

- Loop testing and commissioning via a PC
- RS232 port for PC connectivity
- Full loop scan for identification of devices and fault reporting
- Automatic & Manual addressing of devices
- Activation of sounders and beacons (individually or group) for alarm tests
- Monitoring of loop current and device status
- Installation map showing physical location of devices on the loop to match with assigned addresses
- Poll data from devices to obtain their most recent statuses
- Manual activation of output relays

### HANDHELD PROGRAMMING UNIT



The handheld 40700 programming unit is used to manually assign addresses to devices on a fire detection loop.

The programming unit is connected to a device (detector, sounder, call point, module, etc.) by means of an adaptor or a special cable.

The device has four keys which allow incrementing or decrementing the address of a device, store an address into the memory of a connected device, or simply read the address of a connected device.

An LCD on the programming unit displays basic information on a connected device, such as the type of device, production and test dates, and battery status.

- Manual addressing of detectors, sounders, call points, etc.
- Menu driven programming device
- Reads detector measurements of smoke
- Displays manufacturing details of devices

# 3D TOUCH MIMIC PANEL

## Features

- Integrate with other systems like CCTV, Emergency doors, to provide live information.
- Indicate the exact fire location in 3D format.
- Provide the entire history of fire, where started and how the spread is.
- Up to 200 mimic panels can be installed on VELOX redundant fire alarm network.
- Unlimited number of slave mimic panels on the building network or via WAN.
- With the proper authentication password, the user can respond for an alarm as well.
- 22" resistive touch screen, UL 864 listed.

When it comes to real life emergency, rapid and accurate response do matter.

VELOX a leading fire detection brand "again" introduce world's first Mimic Panel that can integrate with other intelligent systems ON or OFF premises.

This shall allow the intelligent fire alarm system to become even smarter. Providing fast; but most important, reliable information that the human's eyes and brain can comprehend instantly. What can our mimic do?

The state of the art resistive touch mimic panel allows the fire-fighters to navigate even when using their gloves. The unit is designed according to UL requirements and standards.



It shall allow the end user to build the maps of the projects on layers, providing the full access to the site fire location no matter how large the site is. The information can be provided with 3D format which provides full details when needed.

Integration with other systems makes the VELOX fire alarm system even smarter. By accessing the premises CCTV system, the end-user can identify the real threat by seeing the event remotely. As well the Mimic panel allows the VELOX system to integrate with more than 65 life safety systems, such as emergency lighting, emergency doors, access control system allowing more interaction and providing accurate information when needed.

## TECHNICAL SPECIFICATIONS

MAXIMUM RESOLUTION	1920 x 1080 (full HD)
BRIGHTNESS	250cd / m2 Display
LCD DIMENSION	LCD Dimension 21.5" WideFormatDiagonal
TOUCH SCREEN	Surface Acoustic Wave (SAW)
VOLTAGE	24VDC (120 VAC Powerbrick Option)
PROCESSING	MultipleProcessingOptions
RAM	Up to 8Gb DDRAM ( i5 / i7 MB)
TEMPERATURERATING	0° to +50°C

# 3D'S GRAPHICAL USER INTERFACE



Configuration Software comprises a range of specific tools allowing users to achieve what they want quickly and easily, not get bogged down in large, clumsy and complicated software.

Configuration Software is being continually developed for the VELOX panel range, adding new features and performance enhancements. Recently these have included comprehensive false alarm management and alarm verification features.

Our position in the global fire industry means we help guide legislation and can implement software changes quickly, keeping our customer systems right up to date. We also listen closely to our customers and often produce features for specific client requirements.

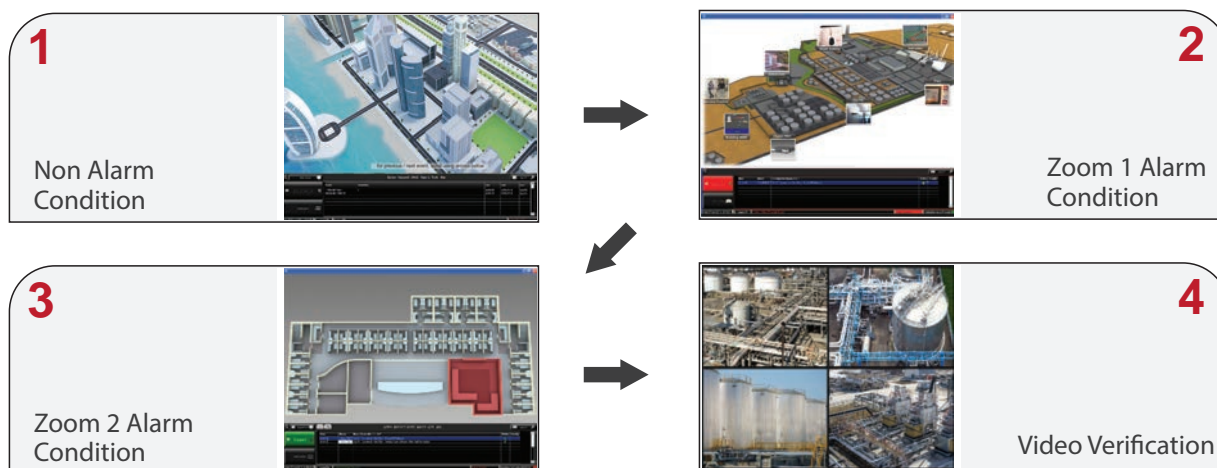
## Features

- Full integration with more than 65 other life safety and security systems.
- Full 3D maps can be managed.
- Drag & drop between the different screen.
- Video wall management
- Full redundancy.
- Zero down time with single or multiple disaster recovery servers.
- Unlimited number of clients
- Auto and pre-configured software options
- Remote dial-up via modem
- User-defined logos for the fire panel

The 4500 and 4501 configuration software for VELOX 4000 panels is compatible with Windows operating systems and offers sophisticated 'cause and effect' programming functionalities. The 4502 remote dial-up software allows communication with the 4000 series of fire alarm control panel via a modem or direct RS232 connection.

graphical control software is the latest innovation and release by VELOX. It not only provides the fire information locations on the map, it is a true integration package that can help the end-user to integrate more than 65 different brands / systems on a one 3 dimensional platform. Systems like CCTV, Access Control, Intrusion Systems, UPS, BMS, Emergency Lighting and many more can all be integrated on a true 3D platform. Reports are not anymore "Static" they are dynamic by all means, allowing the end user with a click of button navigate through the events and witness the interaction of all the systems integrated on that particular event.

## Alarm & Event sequence with Video & Audio







# ASPIRATING SMOKE DETECTOR

## Features

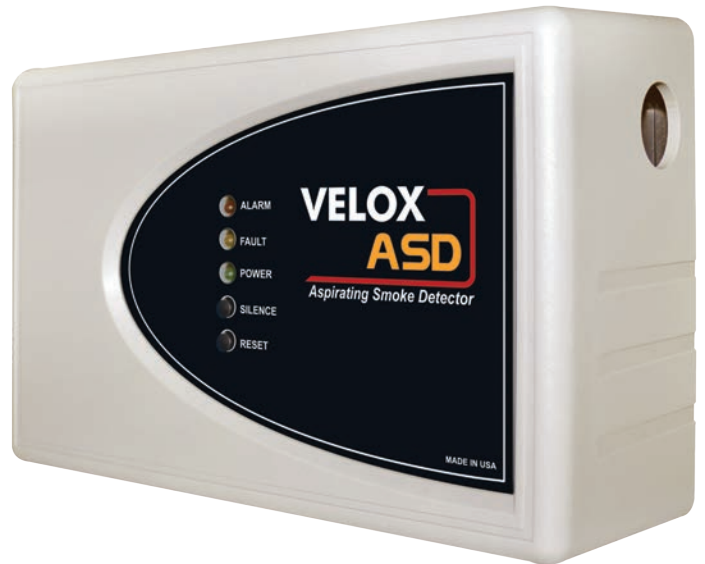
- High Sensitivity Light Scattering Sensor
- Single Zone/Pipe Max. 82m(270ft.) of Pipe
- "Auto" Commissioning
- Powerful Aspirating Fan w/ Frequency Flow Supervision
- Up to 668 sq. m. Coverage
- Single Point Maintenance
- Latching/Non-Latching Fire and Fault Contacts
- "VELOXCalc" Pipe Calculation Program
- UL Listed
- 240 VELOX ASD on a single loop
- Automatic addressing and start-ups.
- State of the art image recognition detection technology.
- In-built isolator in each VELOX ASD.
- No filters, clearing is required.

The VELOXASD-720 aspirating smoke detector is designed for areas up to 668 square metres (7,200 square feet). Total sample pipe runs up to 82.3 metres (270 feet) using 25mm (3/4" SCH-40) pipe to draw air samples from the protected hazard back to the detector for analysis.

Maximum number of sampling holes is 8 spaced no greater than 9 metres (30 feet) between sampling points. Spacing between sampling pipes must also not exceed 9 metres (30 foot) spacing.

Reset and Silence buttons, as well as LED indicators for Alarm, Fault and Power are used for operation and annunciation. Built in troubleshooting via the LED indicator.

The VELOX aspiration system utilize the state of the art image recognition detection. It allows the detector to identify the smoke particles, and provides accurate detection phenomena. Unlike other laser detectors, the VELOX ASD does not require any lens clearing or filters, and no extra commissioning is required. Once installed, and powered up, the system automatically shall adjust the pipes suction and pressure as per the UL requirements. The VELOX ASD shall be installed directly on the VELOX detection loop, and reports the address of each ASD back to the control panel, as well the VELOX ASD is having its own in-built isolator achieving reliable integration on the VELOX detection loop, hence the communication to the VELOX panels shall not be interrupted with a single short / open / earth fault.



## TECHNICAL SPECIFICATIONS

	VELOXASD-720
INPUT VOLTAGE	24VDC
CURRENT DRAW	270 @ 24VDC
OPERATING TEMPERATURES	0°C to 37.8°C (32°F to 100°F)
AREA OF DETECTION	668m² (7,200 sq ft). Max.
SAMPLE PIPE	25mm (3/4" SCH-40)
NUMBER OF SAMPLE POINTS	min 2, max 8 per detector
AREA OF PROTECTION PER SAMPLE POINT	9m x 9m maximum (30' x 30')
ALARM CONTACT	1 Total, 1A @ 30VDC
DETECTOR SENSITIVITY	UL- .6% obs/m (.2%obs/ft) EN54 Test Chamber- .3% obs/m (.1% obs/ft)

# INTELLIGENT DETECTORS WITH ISOLATORS

## ADDRESSABLE SMOKE & HEAT DETECTORS WITH INBUILT SHORT CIRCUIT ISOLATORS

VELOX addressable detectors employ optical and thermal detection technologies to sense fire conditions.



The 40910, 40920, and 40930 range of detectors come with inbuilt short circuit isolators and a bi-colour (red/green) LED for 360° visibility.

Combination of optical and thermal detection in a single detector head saves costs and spots both slow smoldering and high energy flaming fires.

Up to 240 devices can be connected on a single loop, which can extend to 2 km as per load calculations and cable selections.

The devices are powered from the same fire detection loop which connects the fire alarm control panel, sounders, beacons, manual call points, etc. Therefore, additional power supply sources are not required.

## Features

- Compliant with EN54 part 5, 7 and 17
- Inbuilt short-circuit isolators
- Double dust trap and protection screen prevent entry of dust or small insects
- Choice of various sensitivity levels
- Automatic & Manual addressing features
- Responsive to magnet tests
- Tamper detection and fault indication on fire panel
- LED indicator with 360° visibility
- Automatic drift compensation

## TECHNICAL SPECIFICATIONS

	40910	40920	40930
POWER SUPPLY	from 18 V (min) to 40 V (max)		
AVERAGE STANDBY CURRENT CONSUMPTION	70 uA @ 24 V		55 uA @ 24 V
REMOTE OUTPUT MAX CURRENT CONSUMPTION(EXTERNALLY LIMITED)	20 mA		
OPERATING TEMPERATURE RANGE	-30 °C to +70 °C		
HUMIDITY	95% RH (no condensation)		
HEIGHT (STANDARD BASE INCLUDED)	54 mm		
DIAMETER	110 mm		
WEIGHT (STANDARD BASE INCLUDED)	130 g		



# INTELLIGENT DETECTORS WITHOUT ISOLATORS

## Features

- Compliant with EN54 part 5 and 7
- Double dust trap and protection screen prevents entry of dust or small insects.
- Choice of various sensitivity levels
- Manual addressing via the 40700 handheld programmer
- Up to 240 device per loop
- LED indicator with 360° visibility
- Automatic drift compensation

## ADDRESSABLE SMOKE & HEAT DETECTORS WITHOUT INBUILT SHORT CIRCUIT ISOLATORS

VELOX addressable detectors employ optical and thermal detection technologies to sense fire conditions through sophisticated proven intelligent algorithms.

The LV100, LV200, and LV350 range of detectors comes with 360° LED, drift compensation and multiple levels of alarm sensitivities.

Combination of optical and thermal detection in a single detector head saves costs and spots both slow smoldering and high energy flaming fires.

Up to 240 devices can be connected on a single loop, which can extend up to 2Km of loop length as per load calculations and cable selections.

The devices are powered from the same fire detection loop which connects the fire alarm control panel, sounders, beacons, manual call points, etc.

Therefore, additional power supply sources are not required.



## TECHNICAL SPECIFICATIONS

	LV100	LV200	LV350
POWER SUPPLY	from 18 V (min) to 40 V (max)		
AVERAGE STANDBY CURRENT CONSUMPTION	70 uA @ 24 V		55 uA @ 24 V
REMOTE OUTPUT MAX CURRENT CONSUMPTION(EXTERNALLY LIMITED)	20 mA		
OPERATING TEMPERATURE RANGE	-30 °C to +70 °C		
HUMIDITY	95% RH (no condensation)		
HEIGHT (STANDARD BASE INCLUDED)	54 mm		
DIAMETER	110 mm		
WEIGHT (STANDARD BASE INCLUDED)	130 g		





# DECORATIVE SMOKE AND HEAT DETECTORS



The VELOX decorative line of smoke and heat detectors is designed for installations that demand superior aesthetics and seamless match with interior architecture and decoration.

Intelligent, conventional, and wireless detectors are available in a variety of colors and patterns to blend in with the wood, metal, and marble finishes.

Decorative fire alarm detectors have applications in historical buildings, places of worship, and government buildings, where artistic design of structures is given as much priority as architecture.



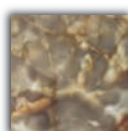
## MARBLE



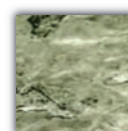
CARRARA  
11



OBIRHO  
12



GREEN ALPES  
13



GREEN  
14



BLACK  
15

## WOOD



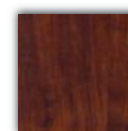
CARRARA  
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OBIRHO  
12



GREEN ALPES  
13



GREEN  
14



BLACK  
15

## METALS



CARRARA  
11

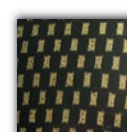


OBIRHO  
12

## PATTERNS



GREEN  
14



BLACK  
15

To order a decorative sensor, add the color code to the product order code.  
For example, to order a smoke detector 40910 with green marble pattern, request quote for 40910-14



# INTELLIGENT ADDRESSABLE BEAM DETECTOR

## Features

- Compliant with BS EN54-12 and UL268
- Ground level control
- Laser assisted alignment
- Building shift compensation
- Auto-optimize beam alignment
- up to 100 meters with additional accessories
- loop powered with inbuilt isolator
- up to 100 unit on a single loop

now faster and boasting many new useful features this is by far the best beam on the market”

We have now designed completely new linear stepper motors which have resulted in amazingly fast commissioning and routine maintenance.

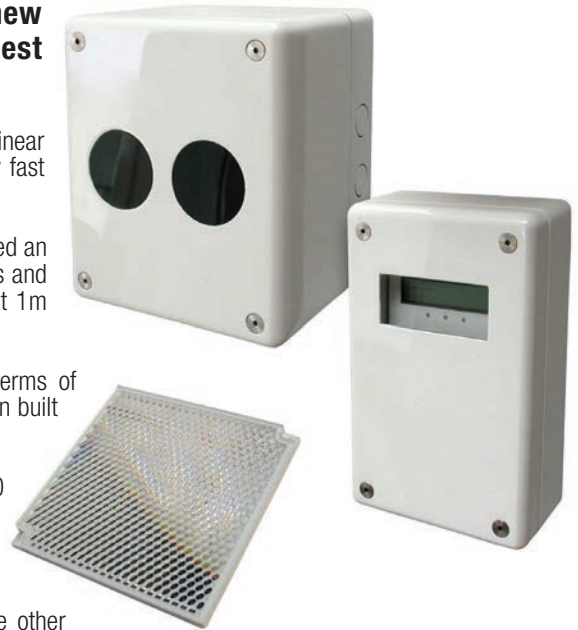
At 40 meters under test conditions we are recorded an auto align times straight out of the box of 3m 02s and once aligned a routine re-alignment was timed at 1m 07s.

This is class leading performance not only in terms of speed but also in terms of advanced robust design built for precise purpose.

Very low power, using only 3.5mA allowing 100 units of 40960 to be connected on the VELOX loop with in-built isolator

Easy clean lenses the **40960** has been designed to be easily cleaned with its flat surfaces. Unlike other beams all the moving optics are safely encased inside the waterproof enclosure and you are not going to knock the beam out of alignment.

This means the **40960** can easily be cleaned from ground level using something like a no-climb pole and suitable attachment.



## TECHNICAL SPECIFICATIONS

	40960
ELECTRICAL SPECIFICATIONS	<b>Supply Voltage.</b> 10.2 to 30 VDC <b>Supply Current.</b> 3.5mA (constant current) in all operational states <b>Constant Current.</b> 17mA (constant current) in fast commissioning
ENVIRONMENTAL SPECIFICATIONS	<b>Temperature.</b> -10°C to +55°C <b>Humidity.</b> 10 to 95% RH Non-condensing <b>Protection Index.</b> IP65 when suitably mounted and terminated
OPERATIONAL SPECIFICATIONS	Standard Product 5 to 40 metres <b>40960-80.</b> Mid-Range Reflector Kit 40 to 80 metres <b>40960-100.</b> Long Range Reflector Kit 80 to 100 metres
ALARM SENSITIVITY LEVELS	25%(1.25dB) to 50%(3dB) in 1%(0.05dB) increments (default 35% (1.87dB))

# INTELLIGENT ADDRESSABLE DUCT DETECTOR



The 40950 series of duct smoke detectors systems samples air movement in heating and ventilation ducts by means of an intelligent smoke detector, housing, and air sampling tube.

An intelligent or conventional optical smoke or heat detector can be mounted in the 40950 housing.

Air in the ducts is sampled by the sampling tube/venturi pipe, which extends from the detector housing into the duct. The length of the Aluminium sampling tube can be shortened according to the diameter of the duct. However, if the ventilation duct is wider than 0.6 m, the sampling tube should penetrate the whole duct.

A filter can be attached to the duct detector for operation in dust environments.

A flexible 40950-BR enables mounting of the 40950 housing on rectangular and circular ducts with diameters as small as 100 mm.

## Features

- Easy mounting of sampling tube
- Single pipe/air sampling system
- Each 40950 system does not require more than one sampling tube for supply and return of air
- Duct detectors can operate in air speeds ranging from 0.5 m/s to 20 m/s

## TECHNICAL SPECIFICATIONS

	40950		
DIMENSIONS OF DDH:	180x183x235mm		
WEIGHT OF DDH:	700g		
AIRFLOW SPEED IN DUCT:	0.5m/s to 20m/s		
OPERATING VOLTAGE OF BOOSTER FAN:	24V AC (separate external power supply)		
LENGTHS OF AIR SAMPLING TUBE:	40950-06 0.6m	40950-15 1.5m	40950-28 2.8m
DIAMETER OF DRILL HOLE ON THE DUCT:	38mm for installation of air sampling tube without the bracket 50mm for installation of air sampling tube with the bracket or booster fan		
APPROVALS:	BS5839 parts 1 and 4 EN54 parts 5 and 7		



# ADDRESSABLE LOOP POWERED SOUNDER BASE

## Features

- Compliant to EN54-3
- Low current as low as 0.8 mA
- World's slimmest Sounder Base
- Powered from the loop
- Individually controlled
- Does not consume any address
- Up to 178 Sounder Base Sensor on a single loop

The VELOX 40200 is the latest technology from ATEIS, simple to install and easy to program, make the VELOX loop powered sounder the preferred choice for many applications such as offices, hotel rooms, kitchens, and all other applications where localized sound alarm is required.

The new VELOX sounder base is a leading technology in alarm systems, fully microprocessor loaded, allowing four different tones and four different volumes to be selected. Furthermore, as low as 0.8mA of current consumption, make it easy to connect 178 sounder base along with 178 detectors.



The new VELOX sounder base, can as well extend the function of the remote alarm to the detector; hence a remote indicator can be connected as well, which shall be activated along with the sounder.

The VELOX sounder technology does not require any address to be assigned to it. Once connected to the loop, the sounder processor communicates with the VELOX fire panel and assigns a sub-address from the installed sensor.

## TECHNICAL SPECIFICATIONS

	40200
STANDARD	EN54-3
POWER SUPPLY	From 15 Vdc (Min) to 52 Vdc (Max)
ALARM CURRENT CONSUMPTION	0.8mA to 2.8mA (based on dBA output volume selection and tone selection)
OPERATING TEMPERATURE RANGE	-20 to 60 °C
HUMIDITY	95% RH (non-condensing)
NUMBER OF DEVICES ON THE LOOP	178 sounder base
SOUND OUTPUT (MAX)	94 dBA
DIMENSION	111 Dia (:mm), Height 31.5 (:mm)
WEIGHT	145 g
COLOR	RAL 9016 as standards , Decorative colors on demand optional

# ADDRESSABLE SOUNDER & BEACON



**40300  
Sounder**

A selection of various tones and adjustable sound output volume allows installation and application of the VELOX range of sounders in different environments.

Different tone patterns can be set to identify alert and evacuation signals. Tones for applications such as BS fire tone, DIN tone and Dutch fire tone can be selected from the fire alarm control panel and programmed for different situations and with different time variations.

A rotary volume control at the rear of the devices allows setting up of the tone volumes according to different requirements and applications.

The devices are powered from the same fire detection loop which connects the fire alarm control panel, detectors, beacons, manual call points, etc. Therefore, additional power supply sources are not required.

## Features

- Compliant with EN54-3:2000 A1:2002, A2:2006 EN54-17:2005
- Inbuilt short-circuit isolator
- Automatic & Manual addressing features
- Up to 100 dB output at 1 m
- Fully synchronized tones
- Programmable tones from the fire alarm control panel
- Selectable flash rate and light output intensity



**40320  
Sounder Beacon**

Loop powered high output (up to 100dBA) intelligent wall mounted sounder with integrated LED beacon.



**40321  
Waterproof Sounder Beacon**

Waterproof audiovisual sounders with integrated LED beacon can be installed in humid and wet environments.



**40301  
Waterproof Sounder**

Waterproof audiovisual sounders can be installed in humid and wet environments.



**40340  
ADDRESSABLE BEACON**

Low current loop powered LED array beacon.

## TECHNICAL SPECIFICATIONS

	40300 - 40301	40320 - 40321	40340
POWER SUPPLY	19-30 VDC		
MINIMUM OPERATING VOLTAGE	15 VDC		
STANDBY CURRENT CONSUMPTION	70 uA (typical)		
ALARM CURRENT CONSUMPTION	5 - 7 mA (at 24 V)	8 - 10 mA (at 24 V)	3 - 6 mA (at 24 V)
OPERATING TEMPERATURE RANGE	-10 °C to +55 °C		
HUMIDITY	5 - 85% RH		5 - 95% RH
MAXIMUM WIRE GAUGE	2.5 mm <sup>2</sup>		0.5 - 2.5 mm <sup>2</sup>
SOUND OUTPUT VOLUME (SELECTABLE) 1 DB(A) VARIATION DEPENDING ON TONE PATTERN	80 - 100 dB(A)	89 - 100 dB(A)	-
BEACON FLASH RATE	-	1 Hz	0.5 / 1 Hz
BEACON FLASH LIGHT INTENSITY	-	> 1 Cd	0.5 / 1 Cd

# INTELLIGENT REMOTE INDICATOR

## Features

- Directly powered from the detector head
- Fast localization of an alarm condition
- Programmable from the fire alarm control panel to respond to multiple detectors within a fire zone

## REMOTE INDICATOR LAMP FOR DETECTORS

The 3330 remote indicator lamp provides local indication of fire detector in alarm. The device functions as an LED optical repeater when wired to a detector.

The remote indicator is controlled and powered directly by the detector, which supplies a current of 20 mA to drive the indicator.

The repeater can be installed away from the detector to indicate an alarm conditions by illumination of the LED.



## TECHNICAL SPECIFICATIONS

	3330
AVERAGE CURRENT CONSUMPTION	4.5 mA
HUMIDITY (NON CONDENSING)	95%
OPERATING TEMPERATURE RANGE	-30°C to +70°C
BODY COLOUR	White
LENS COLOUR	Red
DIMENSIONS	80 x 80 x 27 mm



# ADDRESSABLE MANUAL CALL POINT



The intelligent analogue addressable manual call point is an emergency alerting device which can be activated by pressing a transparent plastic window on its front side.

The emergency call point once activated can be reset by using a key supplied with the device.

A bicolour (red/green) LED provides the status of the device.

Waterproof call points can be installed in humid and wet environments.

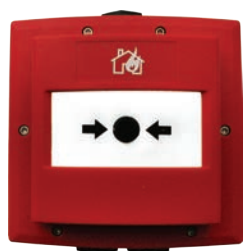
Up to 240 devices can be connected on a single loop, which can extend to 2 km as per load calculations and cable selections.

The devices are powered from the same fire detection loop which connects the fire alarm

## Features

- Compliant with EN54-11:2001 + A1:2005 EN54-17:2005
- Transparent plastic window on front panel for activation
- No glass breaking activation
- Key reset mechanism
- Automatic & Manual addressing features
- Inbuilt short circuit isolators

control panel, detectors, beacons, sounders, etc. Therefore, additional power supply sources are not required.



**40801**  
**Waterproof Call point**

The intelligent call point has a resettable plastic element which has the look of glass.



**40802**  
**Call Point double action cover**

40802 provides a clear plastic cover for the 40800 callpoint that can be secured to prevent miss-use and false alarms.



**Resettable Call point**

intelligent call point available in blue, green, white, yellow colour

## TECHNICAL SPECIFICATIONS

	40800	40801
POWER SUPPLY VOLTAGE RANGE	from 18 Vdc to 40 Vdc	
AVERAGE CURRENT CONSUMPTION	70 uA	
LED CURRENT CONSUMPTION	6 mA ( @ 24 Vdc )	
OPERATING TEMPERATURE RANGE	-20 °C to +65 °C	
HUMIDITY	95% RH - no condensation	
DIMENSIONS (W/O BACK BOX)	87 x 87 x 23 mm	119 x 128 x 62 mm
MAXIMUM WIRE GAUGE	2.5 mm <sup>2</sup>	
INTERNATIONAL PROTECTION RATING	IP31	IP67



# SINGLE & MULTIPLE CHANNEL INPUT/OUTPUT MODULES

## Features

- Compliant with EN54-17:2005 and EN54-18:2005
- Devices are controlled and monitored in supervised and un-supervised modes
- Automatic & Manual addressing features
- Easy to mount
- Industrial applications
- Weather resistant
- Up to 240 devices per loop
- Powered from the loop
- Twin Bi-Color LED for Status and Fire Single
- Inbuilt short circuit isolators

VELOX input/output modules enable setting up of a 'cause and effect' plan for the various detection and alerting devices and activate emergency measures involved in life safety.

The modules act as an interface between the fire detection loop and external devices on heating, ventilation and air conditioning networks.

The addressable modules can be used to monitor sensory devices via its input terminals and then activate fire control mechanisms such as control of fire shutters, sprinklers, ventilation and air conditioning equipment via its output terminals.

The input modules can supervise devices for alarm, short, open, and earth conditions.

The modules are available in various sizes and designs to suit different conditions in commercial and industrial sites and for greater flexibility in installing in standard electrical boxes.

The devices are powered from the same fire detection loop which connects the fire alarm control panel, detectors, beacons, manual call points, etc. Therefore, additional power supply sources are not required.



**SINGLE CHANNEL MINI  
INPUT/OUTPUT MODULES**

Mini input/output modules are suitable for installation in commercial and industrial environments.



**Analog Addressable Input &  
Output Modules 4\"/>**

Allowing the module to be either surface or flush mounted. The choice of standard 4\"/>



**Analog Addressable Input &  
Output Modules 3\"/>**

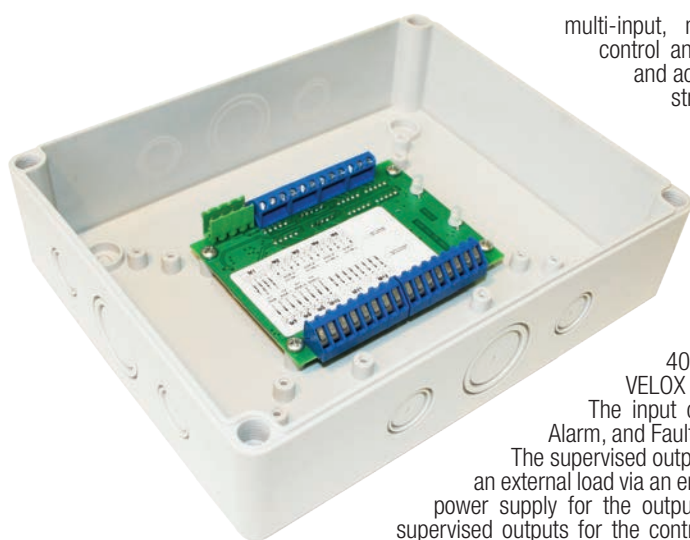
standard 3\"/>

## TECHNICAL SPECIFICATIONS

	MINI INPUT/OUTPUT					ANALOG ADDRESSABLE INPUT & OUTPUT MODULES 4\"/> <th colspan="5">ANALOG ADDRESSABLE INPUT &amp; OUTPUT MODULES 3\"/&gt; </th>					ANALOG ADDRESSABLE INPUT & OUTPUT MODULES 3\"/>				
	40100-M	40010-M	40002-M	40110-M	40102-M	40100	40010	40002	40110	40102	40100	40010	40002	40110	40102
SUPERVISED INPUT	1	-	-	1	1	1	-	-	1	1	1	-	-	1	1
SUPERVISED OUTPUT	-	1	-	1	-	-	1	-	1	-	-	1	-	1	-
RELAY (FORM C) OUTPUT	-	-	2*	-	2*	-	-	2*	-	2*	-	-	2*	-	2*
NUMBER OF ADDRESSES ON LOOP	1	1	1	2	2	1	1	1	2	2	1	1	1	2	2
LOOP'S VOLTAGE RANGE	15-40 VDC					15-40 VDC					15-40 VDC				
AVERAGE CURRENT CONSUMPTION	120 uA (@ 24 V)					120 uA (@ 24 V)					120 uA (@ 24 V)				
LED'S CURRENT CONSUMPTION	6 mA (@ 24 V)					6 mA (@ 24 V)					6 mA (@ 24 V)				
OPERATING TEMPERATURE RANGE	-30°C to +70°C					-30°C to +70°C					-30°C to +70°C				
HUMIDITY	95% RH (no condensation)					95% RH					95% RH				
DIMENSIONS	75 x 52 x 28 mm (w/o brackets)					120 x 120 x 57.5 (mm)					87 x 87 (mm)				
MAXIMUM WIRE GAUGE	2.5 mm <sup>2</sup>					2.5 mm <sup>2</sup>					2.5 mm <sup>2</sup>				
NOMINAL RELAY SWITCHING CURRENT	-					I=2A V=30Vdc					I=2A V=30Vdc				

\* Two single pole double throw relays; both relays have the same address and cannot be triggered individually.

# MULTIPLE CHANNEL INPUT/OUTPUT MODULES



multi-input, multi-output modules are addressable control and monitoring devices used to supervise and activate auxiliary devices such as sounders, strobes, shutters, and water flow switches.

Modules with multiple inputs and outputs are suitable replacements for several single-input/output modules installed for applications such as control of elevators, sprinkler systems, doors, and fire fighting systems.

Each channel (input or output) on the 40000 module can be controlled by the VELOX 4000 series of fire alarm control panels. The input channels can be supervised for Normal, Alarm, and Fault conditions by using end-of-line resistors. The supervised output channels can be used to either monitor an external load via an end-of-line resistor or supervise an external power supply for the output. The relay (Form C) outputs are non-supervised outputs for the control of auxiliary devices, and they can be controlled by the fire alarm control panel.

The devices are powered from the same fire detection loop which connects the fire alarm control panel, detectors, sounders, beacons, manual call points, etc. Therefore, additional power supply sources are not required.

## Features

- Compliant with BS EN54-17 and BS EN54-18
- Supervised input/output channels
- In-built isolator for protection against short circuits.
- Automatic & Manual addressing features
- Tri-color LED indicators
- Weatherproof enclosure with IP65 protection rating
- Up to 240 devices per loop



## ISOLATOR MODULE

isolator module provides short-circuit isolation for analog intelligent fire detection and alarm loops. The isolator module is required when LV100, LV200 and LV350 smoke and heat detectors are used on the loop, because the detectors come without in-built short-circuit isolators.

## Features

### ISOLATOR MODULE

- Protection against open and short circuit faults
- Short-circuit isolation for up to 32 devices

## TECHNICAL SPECIFICATIONS

### MULTIPLE CHANNEL INPUT/OUTPUT MODULES

### ISOLATOR MODULE

	40404	40422	40602	40510
SUPERVISED INPUT	4	4	6	
SUPERVISED OUTPUT	-	2	-	
RELAY (FORM C) OUTPUT	4	2	2	
NUMBER OF ADDRESSES ON LOOP	8	8	8	
LOOP'S VOLTAGE RANGE *	from 18 V to 40 V			15-40 V
STANDBY CURRENT CONSUMPTION	500 µA at 24 V			90 µA at 24 V
OPERATING TEMPERATURE RANGE	-100 °C to + 55 °C			from -30 °C to + 70 °C
HUMIDITY	from 5 RH% to 85 RH%			from 5 RH% to 85 RH%
DIMENSIONS	210 x 170 x 65 mm			75 x 52 x 28 mm (w/o brackets)
MAXIMUM NUMBER OF VEGA LITE DEVICES THAT CAN BE "CUT OFF" BY THE ISOLATOR MODULE	-			32 units
MAX WIRE GAUGE RANGE	2.5 mm <sup>2</sup>			

\*Product operates down to 15 V, but without LED indication.





KM 591678



# CUSTOMIZABLE SHOP INTERFACE

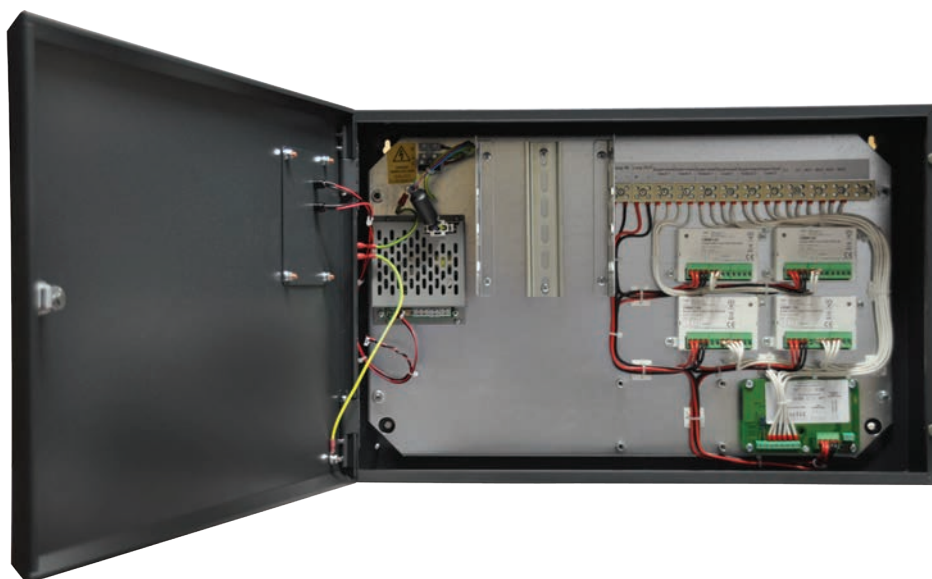
## Features

- Interfacing of fire alarm loop with conventional fire detection and alarm networks
- EN54 compliant power supply and charger
- Two LEDs on front panel indicate power supply and fault conditions
- Multiple combinations of input/output modules
- Flexible mounting and wiring options
- IP30 protection
- Expandable up to 12 channel of I/O
- DIN Rail for External Relay connection
- Battery Backup for 24 h and 30 mim of alarm operation

The IFU100 is a customizable enclosure designed to accommodate input/output interface modules, relays, power supply units and chargers to function as an interfacing device to link independent fire alarm networks and security mechanisms with the centralized fire alarm and detection and PAVA systems in a building.

The interface devices and power supply are housed in the steel enclosure which provides IP30 protection. The enclosure has a key lock mechanism to restrict unauthorized access.

The IFU100 is an easy-to-install unit that can interface addressable fire alarm networks with conventional fire alarm networks and building management systems such as HVAC, lifts, security and power systems.



## TECHNICAL SPECIFICATIONS

	IFU100
POWER SUPPLY	220 - 230V AC (INPUT) 24V DC (OUTPUT)
DIMENSIONS	535 X 345 X 125 MM
INPUT SUPPLY	1.5A PSE:220-240V AC, 50/60HZ, FUSE T3.15H250 3.0A/5.0A PSE:120-230V AC, 50/60HZ,FUSE T3.15H250
OUTPUT VOLTAGE	MAX 28.5V DC, MIN 18.5V DC AT MINIMUM BATTERY VOLTAGE OF 19V WITH MAINS DISCONNECTED
CHARGER VOLTAGE	27.4V DC NOMINAL AT 20°C TEMPERATURE COMPENSATED OVER THE RANGE -5°C TO +45°C
OUTPUT CURRENT	1.5A PSU: 1.0A CONTINUOUS LOAD, 0.5A BATTERY CHARGE 3.0A PSU: 2.0A CONTINUOUS LOAD, 1.0A BATTERY CHARGE [3.0A TO LOAD IF CONFIGURED FOR PSU ONLY] 5.0A PSU: 3.0A CONTINUOUS LOAD, 2.0A BATTERY CHARGE [5.0A TO LOAD IF CONFIGURED FOR PSU ONLY]
ENVIROMENT	INDOOR, DRY
ON BOARD INDICATION	MAINS FAIL, CHARGER FAIL, BATTERY OPEN CIRCUIT, BATTERY LOW & HEARTBEAT

# FIRE-MAN'S TELEPHONE SYSTEM



The VELOX 4000 series of integrated fire alarm, mass notification and fire telephone systems come with a master handset used to control all call operations on an emergency voice communication system (EVCS).

The master handset is connected to outstation handsets on the fire telephone network via an eight-line exchange, which is part of the EVCS network.

The VCC5 is a compact 5-line fire telephone system suitable for small buildings which require a basic emergency voice communication system (EVCS).

The VoCall VCX8 is an eight-line exchange used to network and power the master handset and eight lines on an emergency voice communication system (EVCS).

The VCX8 eight-line exchange is part of the EVCS network comprising a master handset and outstation handsets.

VoCall outstation handsets are connected to the line exchange of an emergency voice communication system (EVCS).

The handsets are part of the EVCS network comprising a master handset and eight-line exchange.

The outstations have two type of fixed handsets. Type A handset is used for evacuation or fire fighting. The Type B handset is used where installation of a Type A is impractical.

The VCRHS roaming handset can be connected to an emergency voice communication system (EVCS) via a telephone jack connected to EVCS network or the fire detection loop in case of an integrated fire alarm fire telephone system.

The roaming handset offer exceptional flexibility in establishing communication via the EVCS network comprising a master handset, eight-line exchange, and outstation handsets.

An EVCS is a fixed, secure, bi-directional, full-duplex voice communication system to assist fire fighters in an emergency in high-rise buildings or large sites where radio communication may not work.

## Features

- Up to 8 master handsets per system
- Up to 256 lines
- Unique 16-character name for addressing each line
- Wall, desk, and rack mount

## TECHNICAL SPECIFICATIONS

	VCM	VCC5	VCX-8	EVCS TYPE A	EVCS TYPE B	JACK PLATE	ROAMING HANDSET
DIMENSIONS	268 x 275 x 85mm	300mm x 350mm x 120mm	296 x 210 x 80mm	320 x 295 x 150mm	133 x 133 x 45mm	86 x 86 x 25mm	210 x 66 x 45mm
POWER SUPPLY	230V AC + 20%	230VAC +/- 10% 50/60Hz	230V AC + 20%	-	-	-	-
CURRENT	12V SLA 3.2AH	Deep discharge, Short, Thermal	11 mA	-	-	-	-
WEIGHT	14.9 Kg	6.5 Kg	1.6 kg	1.4 Kg	1.105 Kg	0.14 Kg	-
MATERIAL	Stainless Steel Brushed	-	Zintec, Texture Powder coated RAL7032	Zintec, Texture Powder coated RAL3001 Single Red	Brushed Stainless Steel	-	
STANDARDS	EN55103-1, EN55103-2, BS5839-pt9, BS5588-pt8	-	EN55103-1, EN55103-2, EN61000-3-2, BS61000-3-3, EN60950, ES5839-Part 9, BS5588-Part 8	EN55103-1, EN55103-2, EN60950, BS5839-pt6, BS5588-pt8, EN60118-4	EN55103-1, EN55103-2, BS5839-pt9, BS5588-pt8, BS60118-4	-	

# FIRE TELEPHONE SYSTEM

## VCX-8

### LINE EXCHANGE



- Up to 32 exchanges on the EVCS network
- Up to 256 lines
- Full monitoring of each line for faults
- Battery backup up to 24 h and 30 min alarm operation

## TYPE A

### OUTSTATIONS FIXED HANDSETS



- Up to 32 exchanges on the EVCS network
- Up to 256 lines
- Full monitoring of each line for faults
- Fully Monitored
- Stainless Steel Option

## VCC5

### COMPACT 5-LINE FIRE TELEPHONE



- Compliant with BS5839-9
- Up to 5 outstations per system
- Onsite programming not required
- 15 status LEDs
- Full duplex system

## TYPE B

### OUTSTATIONS FIXED HANDSETS



- Up to 32 exchanges on the EVCS network
- Up to 256 lines
- Full monitoring of each line for faults
- Hands Free Operation
- Flashing Status LED
- Duplex Speech
- Stainless Steel Option

## VCRHS - VCRJPP

### ROAMING HANDSET & TELEPHONE JACK



- Compliant with EN55103-1, EN55103-2 and BS5839-9, BS5588-8, BS60118-4
- Flexible roaming phone and cable
- Low-noise telephone jack
- Addressable telephone jack on fire panel loop

## VCM

### Master Handset



- Monitored Handset
- Large High Contrast Display(4x20 Character)
- 12 Key Quick Dial Keypad
- Full Duplex System
- Up-to Eight Masters Per System
- Directory Dial Function
- Controls Up-to 256 Lines (32 VCX-8 Exchanges)
- 16 Character Unique Name Per Line
- Dual Network Ports
- Remote Powered



# PARTS LIST

## FIRE ALARM CONTROL PANELS

PRODUCT CODE	DESCRIPTION
<b>VELOX 4200 - 4400 - 4800</b>	
4200	1-2 loop (without glass door)
4200GLZ	1-2 loop (with glass door)
4200INT	1-2 loop (integrated with telephone and microphone)
4200INT/TEL	1-2 loop (integrated only with telephone)
4200INT/PSSDT	1-2 loop (integrated only with microphone)
4400	1-4 loop (without glass door)
4400GLZ	1-4 loop (with glass door)
4400INT	1-4 loop (integrated with telephone and microphone)
4400INT/TEL	1-4 loop (integrated only with telephone)
4400INT/MP	1-4 loop (customized with Mimic Panel)
4400INT/SM	1-4 loop (customized with smoke management control)
4800	2-8 loop (without glass door)
4001	Loop driver card
<b>VELOX 4030 - 4035 (ON-BOARD AND PORTABLE PRINTERS)</b>	
4030	On-board printer for 4200 /4400 - Fitted
4031	On-board printer for 4200 /4400 (Retro-fit)
4032	External boxed panel printer for 4200 /4400
4033	Spare shrink wrap battery pack for 4031 printer
4034	Spare paper roll for 4031 printer (pack of 10)
4035	Portable Thermal Printer c/w re-chargeable battery & leads
<b>VELOX 4010 - 4020 (REMOTE DISPLAY AND CONTROL TERMINALS)</b>	
4010	Remote Display Terminal with standard network interface, 24V DC
4020	Remote Control Terminal with standard network interface, 24V DC
4010/FT	Remote Display Terminal with fault-tolerant network interface, 24V DC
4020/FT	Remote Control Terminal with fault-tolerant network interface, 24V DC
<b>MIMIC PANELS (BOXED MIMIC AND EVACUATION CONTROL UNITS)</b>	
4727	100 zone panel mounted mimic for 4200 /4400. Artwork required.
4720	100 way remote LED mimic enclosure (type 1). Artwork required
4721	100 way remote LED mimic enclosure (type 2). Artwork required
4722	Fault Tolerant 100 way remote LED mimic enclosure (type 1)
4723	Fault Tolerant 100 way remote LED mimic enclosure (type 2)
4745	50 way network I/O controller boxed (type 2) c/w psu
4746	50 way fault-tolerant network I/O controller boxed (type 2) c/w psu
<b>MIMIC PANELS (LED INDICATORS AND SWITCH INPUTS FOR BOXED MIMIC UNITS)</b>	
4726/F	High Intensity red LED for Boxed Mimic and Evac Control Units - Fitted
4726/Y	High Intensity yellow LED for Boxed Mimic and Evac Control Units - Fitted
4726F/G	High Intensity green LED for Boxed Mimic and Evac Control Units - Fitted
4731/2T	2-Position key switch trapped for 4745 and 4746 - Fitted
4731/2U	2-Position key switch un-trapped for 4745 and 4746 - Fitted
4731/3U	3-Position key switch un-trapped for 4745 and 4746 - Fitted
4733	Non-illuminated push button for 4745 and 4746 - Fitted
4733/R	Illuminated (red) push button for 4745 and 4746 - Fitted
4733/G	Illuminated (green) push button for 4745 and 4746 - Fitted
4752	Mimic driven 10-way relay output card
4752/D	Mimic driven 10-way relay output card in din-rail carrier
<b>MIMIC PANELS (KEY SWITCHES AND PUSH BUTTONS FOR 50-WAY NETWORK I/O CONTROLLER)</b>	
4700	100 way remote LED mimic driver (un-boxed)
4700/FT	Fault Tolerant 100 way remote LED mimic driver (un-boxed)
4705	50 way network I/O controller (un-boxed)
4705/FT	50 way fault-tolerant network I/O controller (un-boxed)
4706	High Intensity red LED & 600mm Lead for Boxed Mimic and Evac Control Units
4706/Y	High Intensity yellow LED & 600mm Lead for Boxed Mimic and Evac Control Units
4706/G	High Intensity green LED & 600mm Lead for Boxed Mimic and Evac Control Units
<b>VELOX 2100 - 2200 (ANALOG ADDRESSABLE FIRE ALARM CONTROL PANELS)</b>	
2100	Single Loop Analogue Addressable Fire Alarm Control Panel

2200	Two loop analogue addressable fire alarm control panel
<b>ACCESSORIES</b>	
2232	RS232 communication card
2485	RS485 communication card
2019	TCP/IP communication card
2000-GUI	Graphical user interface utility
2000-RPS	Remote programming software
2000-PSU	Intelligent power supply unit
<b>POWER SUPPLY UNITS</b>	
4090	1.5A PSU & charger (boxed - 7Ah battery capacity)
4091	3A PSU & charger (boxed - 7Ah battery capacity)
4092	3A PSU & charger (boxed - 17Ah battery capacity)
4093	5A PSU & charger (boxed - 17Ah battery capacity)
4094	5A PSU & charger (boxed - 24Ah battery capacity)

## CARDS & ACCESSORIES (NETWORK CARDS)

PRODUCT CODE	DESCRIPTION
<b>NETWORK CARDS</b>	
4420	Standard network card
4421	Fault-tolerant network card
<b>BMS/GRAPHICS INTERFACE CARD</b>	
4120	BMS/graphics interface card (standard network interface)
4121	BMS/graphics interface card (fault-tolerant network interface)
<b>IP INTERFACE CARD</b>	
4124	IP gateway with standard network interface (boxed)
4125	IP gateway with fault-tolerant network interface (boxed)
<b>BACNET/IP/MODBUS INTEGRATOR</b>	
4130	BACNET/IP/MODBUS Integrator

## CARDS & ACCESSORIES (PERIPHERAL CARD)

PRODUCT CODE	DESCRIPTION
<b>OUTPUT CARDS</b>	
4042	2-way programmable relay output card
4048	8-way programmable relay output card
<b>INPUT CARD</b>	
4148	8-way programmable relay input card
<b>PERIPHERAL BUS ADAPTOR CARD</b>	
4060	Peripheral bus interface adaptor
<b>GENERAL ROUTING INTERFACE CARD</b>	
4061	Fire alarm routing interface card (monitored I/O)
<b>PROGRAMMABLE RELAY CARD</b>	
4064	4-way relay card
4065	4-way relay card with 1.5A PSU (boxed)
<b>PROGRAMMABLE SOUNDER CARD</b>	
4062	4-way sounder card
4063	4-way sounder card with 4A PSU (boxed)
<b>ZONAL LED INDICATOR</b>	
4081	20 zone LED card for 4100 (fitted)
4082	20 zone LED card for 4200/4400 (fitted)
4083	50 zone LED card for 4200/4400 (fitted)
4084	50 zone LED card for 4200/4400 (retrofit)
4085	100 zone LED card for 4200/4400 (fitted)
4086	100 zone LED card for 4200/4400 (retrofit)
4087	200 zone LED card for 4200/4400 (fitted)
4088	200 zone LED card for 4200/4400 (retrofit)
<b>SOUNDER SPLITTER CARD</b>	
4070	4-way sounder splitter card
4071	4-way sounder splitter card with 4A PSU boxed)
<b>SOUNDER BOOSTER CARD</b>	
4072	4-way sounder booster card

# PARTS LIST

4073	4-way sounder booster card with 4A PSU boxed)
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## CARDS & ACCESSORIES (PROGRAMMING DEVICE)

PRODUCT CODE	DESCRIPTION
LOOP DRIVER AND ANALYZER	
40710	Addressable Loop Line Driver
HANDHELD PROGRAMMING UNIT	
40700	Addressable Device Programmer

## 3D's TOUCH MIMIC PANEL

PRODUCT CODE	DESCRIPTION
-----	22" 3D TOUCH MIMIC PANEL

## 3D's GRAPHICAL USER INTERFACE

PRODUCT CODE	DESCRIPTION
4500	Configuration software & lead
4501	Configuration software & USB upload/download lead
4502	Remote dial-up software (virtual panel)
4503	Graphical control software (single panel, compact version)
4504	Graphical control software (up to 10 node connection)
4505	Graphical control software (up to 99 node connection)
4506	Logo programming software

## ASPIRATING SMOKE DETECTOR

PRODUCT CODE	DESCRIPTION
VELOXASD-720	ASPIRATING SMOKE DETECTOR

## INTELLIGENT DETECTORS WITH & WITHOUT ISOLATORS

PRODUCT CODE	DESCRIPTION
INTELLIGENT DETECTORS WITH ISOLATORS	
40910	Smoke detector with inbuilt short circuit isolator
40920	Smoke & heat detector with inbuilt short circuit isolator
40930	Heat detector with inbuilt short circuit isolator
INTELLIGENT DETECTORS WITHOUT ISOLATORS	
LV100	Smoke detector without inbuilt short circuit isolator
LV200	Smoke & heat detector without inbuilt short circuit isolator
LV350	Heat detector without inbuilt short circuit isolator
DETECTORS & ACCESSORIES	
40900	Standard adaptor base for mounting detectors
40900-R	Standard base with inbuilt relay
40900-S	Standard adaptor base with shorting clip
40900-DP	Deep adaptor base
TMD-01	Detector test magnet
DC100	Dust cover
CA100	Conduit adaptor

## INTELLIGENT ADDRESSABLE BEAM DETECTOR

PRODUCT CODE	DESCRIPTION
40960	Intelligent Reflective Beam Smoke Detector
40960-80	Range Extension Kit up to 80 meter
40960-100	Range Extension Kit up to 100 meter
40960-MP	Mounting Plate for Beam Head or Single Reflector
40960-AB	Adjustable Wall Bracket

## INTELLIGENT ADDRESSABLE DUCT DETECTOR

PRODUCT CODE	DESCRIPTION
40950	Intelligent Addressable Duct Detector with Standard Base
40951	Intelligent Addressable Duct Detector with Relay Base
40952	Wireless Intelligent Addressable Duct Detector
40950-06	0.6 meter Sampling Pipe

40950-15	1.5 meter Sampling Pipe
40950-28	2.8 meter Sampling Pipe
40950-BR	Installation Duct Detector Bracket
40950-SG	Duct Detector Spare Gasket

## ADDRESSABLE LOOP POWERED SOUNDER BASE

PRODUCT CODE	DESCRIPTION
40200	4 Tone Intelligent Addressable Loop Powered Sounder Base
40220	32 Tone Intelligent Addressable Loop Powered Sounder/Flasher Base
40201	Silicon Base Cover for Waterproof protection

## ADDRESSABLE SOUNDER & BEACON

PRODUCT CODE	DESCRIPTION
40300	Intelligent Addressable loop Powered Wall Mounted Sounder
40300-H	Intelligent Addressable loop Powered Wall Mounted Sounder with Slow Whoop Red
40300-HW	Intelligent Addressable loop Powered Wall Mounted Sounder with Slow Whoop White
40301	Intelligent Addressable loop powered, waterproof, Wall Mounted Sounder
40320	Intelligent Addressable Loop Powered Sounder Flasher, Wall Mounted.
40321	Intelligent Addressable Loop Powered, Waterproof, Sounder / Flasher, Wall Mounted
40340	Intelligent Addressable Loop Powered Beacon

## INTELLIGENT REMOTE INDICATOR

PRODUCT CODE	DESCRIPTION
3330	Remote Indicator Connected to Detector Base

## ADDRESSABLE MANUAL CALL POINT

PRODUCT CODE	DESCRIPTION
40800	Intelligent Addressable Manual Call Point
40800-B	Intelligent Addressable Manual Call Point in Blue Color
40800-G	Intelligent Addressable Manual Call Point in Green Color
40800-W	Intelligent Addressable Manual Call Point in White Color
40800-Y	Intelligent Addressable Manual Call Point in Yellow Color
40801	Intelligent Addressable Manual Call Point Waterproof
40800-F	Intelligent Addressable Manual Call Point installation frame
40802	Intelligent Addressable Manual Call Point double action cover

## SINGLE & MULTIPLE CHANNEL INPUT/OUTPUT MODULES

PRODUCT CODE	DESCRIPTION
SINGLE CHANNEL MINI INPUT/OUTPUT MODULES	
40100-M	Single input mini module
40010-M	Single output mini module
40002-M	Dual output (Form C) mini module
40110-M	Single input/output mini module
40102-M	Single input/dual output (Form C) mini module
ANALOG ADDRESSABLE INPUT & OUTPUT MODULES 4"X4"	
40100	Addressable Single Supervised Input Module
40010	Addressable Single Supervised Output Module
40002	Addressable Dual Form C Relay Output Module
40102	Addressable Single Supervised Input and Dual Relay Output
40110	Addressable Single Supervised input and output module
ANALOG ADDRESSABLE INPUT & OUTPUT MODULES 3"X3"	
40100	Addressable Single Supervised Input Module
40010	Addressable Single Supervised Output Module
40002	Addressable Dual Form C Relay Output Module
40102	Addressable Single Supervised Input and Dual Relay Output
40110	Addressable Single Supervised input and output module

# PARTS LIST

## MULTIPLE CHANNEL INPUT/OUTPUT MODULES

PRODUCT CODE	DESCRIPTION
40404	4 input channels, 4 relay (Form C) output channels
40422	4 input channels, 2 supervised output channels, 2 relay (Form C) output channels
40602	6 input channels, 2 relay (Form C) output channels
40500	Conventional zone module
40510	Isolator Module
<b>ACCESSORIES</b>	
MB100	Standard mounting box for modules
DMB100	Deep mounting box for modules

## CUSTOMIZABLE SHOP INTERFACE

PRODUCT CODE	DESCRIPTION
IFU100	Customizable Shop Interface unit

## FIRE TELEPHONE SYSTEM

PRODUCT CODE	DESCRIPTION
<b>VELOX 4000 SERIS / TEL</b>	
4200INT	1-2 loop fire alarm control panel integrated with fire telephone and microphone
4200/TEL	1-2 loop fire alarm control panel integrated only with fire telephone
4400INT	1-4 loop fire alarm control panel integrated with fire telephone and microphone
4400INT/TEL	1-4 loop fire alarm control panel integrated only with fire telephone
4800INT	2-8 loop fire alarm control panel integrated with fire telephone and microphone
4800INT/TEL	2-8 loop fire alarm control panel integrated only with fire telephone
<b>VCM (MASTER HANDSET)</b>	
VCM	Vocall Master Handset (rackmounted with GREEN LCD display)
VCWM	Wall mount master handset in VoCALL Compact Case with Revision 3 software (No audio out, No active relay output) for connection to current exchanges
<b>VCX-8 (LINE EXCHANGE)</b>	
VCX-8	Eight line exchange
<b>VCC5 (COMPACT 5-LINE FIRE TELEPHONE)</b>	
VCC5	VoCALL Compact 5 Line Fire Telephone & Disabled Refuge System
<b>VCRHS - VCRJPP (ROAMING HANDSET &amp; TELEPHONE JACK)</b>	
VCRHS	Vocall Roaming handset
VCRJPP	Jack point PCB for installation into other plated as needed
VCRJP	Vocall single gang stainless Jack
<b>TYPE A &amp; TYPE B (OUTSTATIONS FIXED HANDSETS)</b>	
VCFHP	Vocall Red flush push door handset
VCFHP-SS	Vocall Stainless Steel flush door handset
VCSHP	Vocall Red surface push door handset
VCSHP-SS	Vocall Stainless Steel surface door handset
VCSHF	Type B Vocall surface with Red Overlay
VCSHF-SS	Type B Vocall Stainless Steel surface
VCFHB	Type B Stainless Steel Bezel to flush mount VCSHF



# REFERENCES

Many projects have already been installed by ATEIS in the Middle East and India, and the company is proud to have been associated with these major installations in the region — and particularly the Hospitality and Transportation sectors, where ATEIS' high end products have regularly been implemented to fulfill their demanding requirements.

## Middle East:

**Abu Dhabi** • Yas Viceroy Hotel • Ferrari World • Sky Tower-Al Reem Island • Alwaha Mall • Al Quaa KG • Egyptian Orthodox Coptic Church • Capital Plaza Mixed Use Development • Holiday Inn-Danet • Delma Mall • Vision Suits • Masdar Institute of Science & Technology • Sheikh Saif bin Zayed Mosque • Building Materials City Mall • Al Wahda Grand Millennium Hotel • Yacht Club, Yas Island • Yas Marina Hotel • Rotana Hotel Yas Island • Centro Yas Hotel • Danet Mall • Marina Square Block A and D - Al Reem Island • Mubadala Development Head Quarters • Abu Dhabi Ladies Club • City of Light-Tamouh • Bustan Palace Hotel • Novotel & IBIS Hotel- Abu Dhabi Gate • Future Schools • Burjeel Hospital • Bab Al Qasr • Al Ain Convention Center • Rihan Heights Arzanah Towers • Al Nasir HQ-ADNEC • Beach Towers-Al Reem Island • Hayat Park -Al Saadiyat • Arjan Hotel • Presidential Flight Complex • Brooge Pipe Academy • Brighton College • Dusit Hotel • Millennium Al Ain • Emirates National School • Franco Emeric Hospital, Marasi Complex • Arzanah Hospital • Centro Rotana Hotel-Airport Road • Al Badi Rotana Hotel-ADNEC • Centro Rotana Hotel-ADNEC • Royal City Season Hotel • Al Hamara Plaza Hotel • Al Waha Mall-Al Ain • Police Stations-Al Ain • Theatre and Swimming Pool-Swiehan Base • **Dubai** • Metro Dubai Red & Green Line • Emirates Towers • Dubai Festival Center • Mirdif Mall • JAL Tower Hotel • Dubai Civil Defense HQ • Ibn Battuta Twin Tower • Business Village • Jumeirah Zabeel Saray • Golden Miles Apartments Palm Jumeirah • Shore line Apartments Palm Jumeirah • Ski Dubai • Gate Village • 11 Towers • Dusit Hotel • Jumeirah Beach Hotel • Marsa Plaza • Villa 18 in Umm al Sheif • Villa KTP2 at Palm Jumeirah • Damac Burjside Boulevard • City Premiere Hotel at Dubai Marina • Le meridian Hotel at Mina Syah • Fujairah Commercial Complex • G-5 Commercial building Al Khan, SHJ • Azadi Factory, Iraq • Damac Burj Terrace • Capital Bay Towers (Damac) • School for Ministry of Public Works at RAK, Sharjah, Fujairah • Burj Development plot 55, 56, 57, 58 & 59 • Carrefour at FCC • Vox Cinemas at FCC • RAK Precast, RAK • Majan printing press, RAK • Union cement factory, RAK • Union fiber glass factory, RAK • Double Tree by Hilton, RAK • RAK Hotel • Capital Hotel at RAK • Muscat City Center • Fujairah City Center • Ajman City Center • **Qatar** • American School • ABM Military School • State Security Bureau - Doha HQ • Doha Bank Head Quarters - West Bay • Kahramaa Tower - West Bay • Doha City Centre • Al Madina Hotel • Doha Convention Centre • MOI Head Quarters • North Gate Mall • Gulf Mall • Turkish Embassy • Commercial Bank of Qatar HQ • Mazaya Club house • Merqab Mall • Spinneys at Pearl Qatar • Masraf Al Rayyan Building • Barwa City Phase • Mosque and Shopping Mall • Barwa City Phase 1 Amenity - Mosque and Shopping Mall • Ramada / Radisson Blu Hotel. **Saudi Arabia** • Correction Facility with MOI - Jeddah, Riyadh & Taif • Lotus residential tower in Dammam • King Abdulla Project (KAP) with MOI • Nakheel project in Riyadh • Aircraft Hangers with Ministry of Defense & Aviation.

## India:

Cognizant Technology Solutions • TATA AIG • McKinsey & Company • Ashok Tower • Mumbai Cricket Academy • Bharti Airtel • Edelweiss • Cape Gemini • DigiCable • Jewel Mall • Sheth Corporate Tower • Banke Bihari Temple • Holy Spirit Hospital • Automotive Research Association of India • Goldman Sachs • TCS • Mansoft Systems • JP Morgan • Adesh Tyagi's Residence • Holistic Infrastructure Ltd. • Harper Tech Pvt. Ltd. • Suzlon • Vodafone • Future Generality • IBIS • Novotel • JNPT Office • Dahisar Church • Honda Factory • New Era School • VLCC • JNPT PMS Consultant • BEHR Paints • Vesta Hotel • Trident Oberoi • Pawan Hms Helicopters • Shoppers Stop • Quest • Taj Mahal Palace Hotel • Hilton Indus Hotel • Ahmedabad Airport • Ashok Garden Residential Complex • Holiday Inn • KPMG • Sena Bhavan • NASA Corporate Office • Lodha Bellissimo Residential Complex • Lotus IT Park • Financial Technology Corporate Office • Cosy Resort • Rajasthan Sammelan • Nanded Yeswantrao Chauhan Museum • Synergy • Dawn Mills • Columbia Asia Hospitals • Jamia Milia Indoor Stadium • ADP • Toyota Bidadri • Wankhede Stadium • MCA

Stadium • Avinash Bhonsale Corporate Building • R K Puram Residential Complex • Daman Casino • RPG • Citious Eclipsys • ASF Insignia • Asia Management School • ARA • The Capital Corporate Office • Lady Hospital • Nokia • Citrix R & D Centre • Wells Fargo • Kongu Engineering College • Amazon • Infinite Computers • Mewat Medical College • Mahila Viswavidyalaya • R.K Puram Cpwd Residential Society • Ashoka Hotel • Radisson Hotel • Wyndham Hotel Delhi • Isbt Bus Terminal • Pawan Hans Helipad • Commonwealth Games Village • Tata Capital • Tata Motors • Wyndham Hotel Delhi • World Trade Centre • Orion Mall • Brigade Office • N Food Court • Bhuvneshwar Airport • Bnp Paribas • Raipur Railways • Kolkata Airport • Vadodra Airport • Hexaware • Aga Khan Academy • Jsw • Faureca • Inautix • Kga Hotel Kerala • Sabic Pharma • Century Mills • Century Bhavan • Cgo Complex • All India Institute of Medical Science, Bhopal (AIIMS).

## Turkey:

YAKIFILAR primary school • SOĞANLI Cultural center • CEYLAN dormitory for females • Turkish Government Railway • Turkish highway commission building • BANKERHAN boutique hotel • AY merchandising headquarters • SAMANDIRA carpentering factory • PASINLER and KARACOBBA family health centers • dormitory with 300 capacity • Egen Energy • asphalt motorway factory • Miranda construction company • EREĞLI KURTILAR Primary school • ARTUKLU University • MIMARSINAN Industry High school • Bitlis emergency hospital • GELIBOLU University • Quran course for females • Düzcce school with 8 classroom • KIRKLARELI government hospital • Government electric authority guesthouse • MUDURNU government hospital • BAHÇEŞEHİR MAVI shopping mall • AMASYA waste water purification plant • TITANIK dormitory for females • Agra private dormitory • GENCO logistics • Darca Quran course • AKDENİZ DOĞUS hospital • RAY TES railway • BIMEKS merchandising • ULUDAĞ University • FLORYA ALRAZI Hotel • government land registry cadastre • Karasu school to train government employed imams • HANTEK primary school • School with 32 classrooms • OZ İNŞAAT residence project • HATEMOĞLU Hotel • PARK 23 Shopping mall • ŞEKERPINAR Dental care center • KOZCAGIZ school to train government employed imams • BILFEN private high schools • A plaza business center • İSTANBUL University AVCLLAR campus • BAYAT sport center • TKI SOMA government machine management authority • BENDYKZ logistics high school • ADNAN MENDERES University living center • ÇANDARLI power distribution building • Osman Çınar secondary school • HAZRO school with 32 classroom • Bozca Island health center • Cultural center

## Denmark:

The Crowne Plaza 1 Part, Copenhagen • Crowne Plaza Hotel Copenhagen (Copenhagen Towers) Opening nov 2009 • H&M Main Store Amagerort, Copenhagen • Føtex Food Hasseris, Aalborg • Føtex Food Guldsmedegade, Aarhus • DS Centralstok, Aarhus • H&M Nørrebro, Copenhagen • H&M, Odense • Panum Institute, Copenhagen.

## Germany:

Deutsche Oper, Berlin • Bayerische Staatskanzlei, München • Kongresscenter, Würzburg • Fraunhofer Umsicht, Oberhausen • Heeresflugplatz, Roth • Handels-Lehr-Anstalt, Bruchsal • Deutsches Luft- und Raumfahrtzentrum, Oberpfaffenhofen • Hauptbahnhof Darmstadt, Darmstadt • Campus Westend, Johann Wolfgang Goethe-Universität, Frankfurt am Main.

## UK:

Royal festival hall • Royal Halls, Harrogate • Victoria sq, Belfast • Tallagh centre, Dublin • Snow hill • BASF Chemical plant, Midlands • Lewisham Civic centre • Eltham Leisure centre • Bahaus store, Iceland • PFI Schools, Scotland • St Mirrens Stadium • White city Station • Derby Shopping

Centre • Derby Theatre.

## Belgium:

North Galaxy, Brussels • European Parliament, Brussels • Exxon Mobile, Brussels • Grain cake Bakery, Ath n Gallery Theater Arenberg, Brussels • Imagimons, Mons • Carrefour, Belgium • Bierset Airport, Liège • Axa Bank, Brussels • Cynagogue de Forest, Brussels • Swift La hulpe, Brussels • Fire station, Brussels • Fire station, Liège • Musée des beaux arts, Mons • Hospital, Mouscron • Galerie Anspach, Brussels • Kempinski Hotel, Bruges.

## Switzerland:

M1 and M2 subway lines, Lausanne • Universität, Sankt Gallen • Shopping mall and football stadia, Neuchâtel • Hôpitaux Universitaires, Genève • Pic-tet bank, Geneva • Theater, Sankt Gallen • Tramway maintenance center, Basel • Notre-Dame church, Vevey • Airport, Zürich.

## Portugal:

Batalha Cathedral • Stella Maris Pavillion • Guarda Cathedral • Amadora Church.

## Hong Kong:

Hong Kong Airport, Hong Kong.

## Norway:

Bjørnli VG skole, Oslo • HIBU (Highschool), Drammen • Gjøvik Olympic Arena, Fjellhallen, Gjøvik • Med vennlig, Hilsen.

## Slovakia:

SAMSUNG LCD factory, Voderady • HANSOL LCD, Voderady • BANG J00 Electronics, Šurany • JMT SK, Hlohovec.

## France:

Rolland Garros stadium, Paris • Air France Roissy Headquarter, Paris • France Stadium, Paris • St Exupery airport, Lyon • Department Hall, Marseille • Pharo cultural center, Marseille • Communal headquarter, Marseille • Borely Hippodrome, Marseille • Congress Hall, Dijon • Auditorium, Dijon • Mediacenter, Montpellier • Zenith, Pau • Futuroscope, Poitiers • Merignac Airport, Bordeaux • Palais des sports, Grenoble • Department Hall, Bastia • Congress Hall, Toulon • Zenith, Toulouse • Airport St Martin, Antilles • Zara shops, Paris, Lyon, Bordeaux, Marseille • ST Microelectronics Plant, Grenoble • Caisse d'epargne, bank Lyon • RATP line 11 symphonie, Paris • RER Nation/Etoile station, Paris • SNCF railway stations, Metz, Besançon, Aix les Bains, Lyon Perrache, Frejus-St Raphael, Charleville Mézières, Mulhouse, Montluçon, Le Havre, Brive, Voiron, Villefranche sur saône, Ouest Lyonnais, Sarrebourg, Chambéry, Brest, Morlaix, St Brieuc, Guingamp, Valence ville, Hazebrouk, Roanne, Paris Nord, Paris Est, Nîmes, Marseille St Charles, Monaco, Antibes, Angers, Lyon Part Dieu, Nancy stations • TGV railway station East • Commercial Mall "Grand Littoral", Marseille • Nice côte d'azur T2, Airport • Football stadium, Grenoble • TRAM TRAIN, Aulnay Bondy • Grimaldi forum, Monaco.

## South Africa:

ABSA 160 Main • ABSA 170 Main Road JHB • Edgewood College • Fairlands Office Development • Foschini Stanley Lewis Center • Kendal Power Station • IDC Building Sandton • Melrose Arch New Car Park • Parc Du Cap n Momentum HQ-Centurion • Nedbank BOE n Spar Distribution • Coliseum • Africa House • Cavendish Connect • SA NAVY n ABSA 270 Main • UCT Woman Res.

## Portugal:

Conference Rooms in the Hotel & Casino of "Chaves" • City of Chaves • "Colombo" Shopping, Lisbon • "Carcavelos" local hall, Village of Car-Room of "Academia Militar" School, mining pool of "Covilhã", City of Covilhã • improvement (Benfica Football Club

## Italy:

Battistero del Duomo, Pisa • San Miracoli, Casalborgino, Chieti Maria della Scala in Fedele, Milano • Duomo Gambarare, Mira, Venezia. tuario Madonna dei Santa San di





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