

**VELOX** by **ATEIS**



**Fire Detection & Alarm System**  
Product Catalogue V.2



**VELOX CLOUD**

## LEADING INNOVATION IN LIFE SAFETY

For a decade VELOX has delivered intuitive designs built on the foundation of innovation and features that our customers love the most. Coupled with unparalleled synergy and integration to Ateis Public Address and Voice Evacuation solutions, our products are the perfect choice for your application.

Today's IoT (Internet of Things) technological requirements are re-defined by VELOX's groundbreaking integration capabilities. The new seamless connectivity, reporting and control over our CLOUD give VELOX customers levels of response and service never seen before.

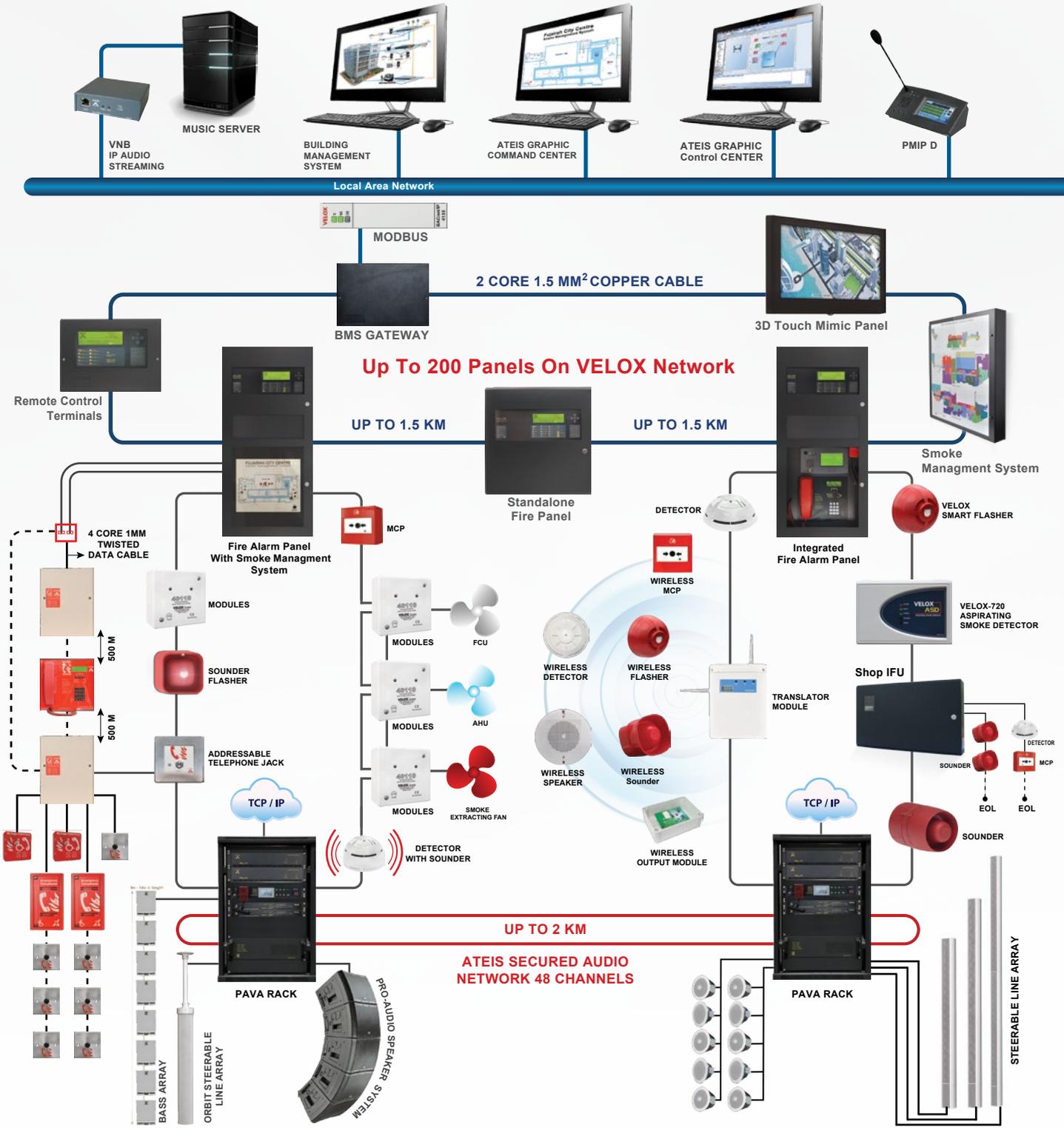
The VELOX technology is an experience that harmoniously integrates into the Smart Cities of today. Our Engineers are constantly re-defining what is possible whilst making the solutions user friendly and more capable.

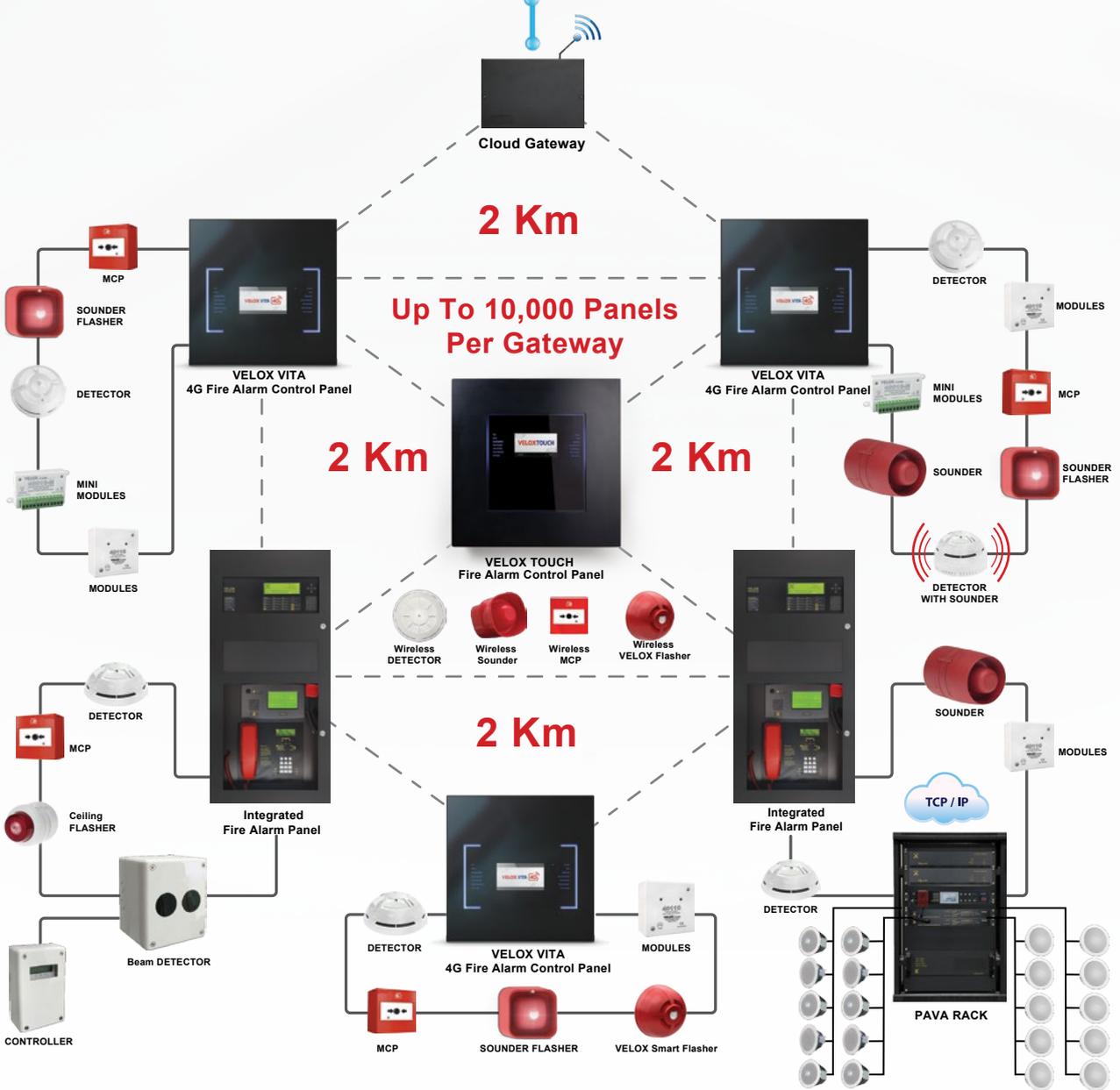
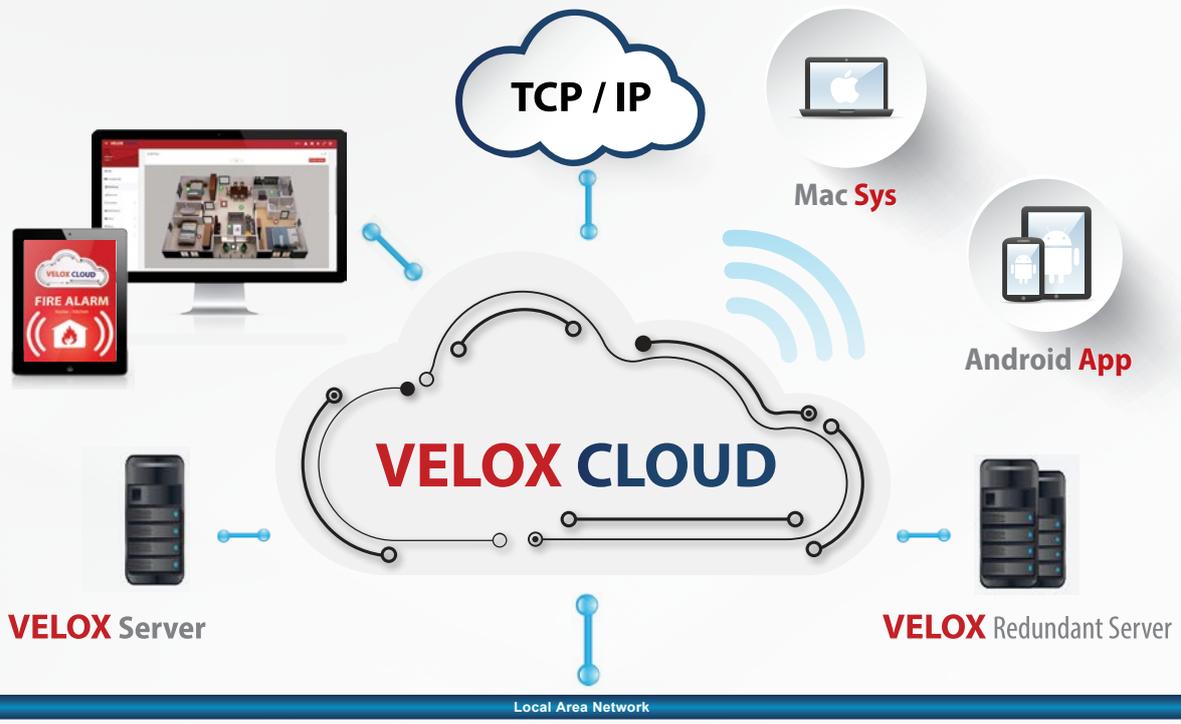
Our state-of-the-art facilities in Dubai Silicon Oasis, UAE is the home for manufacturing excellence and has expanded to a new Head Quarters in Canada. This extension of ISO9001 facilities will enhance our global-reach and this, along with our ever-expanding product range will allow us to develop, deliver and support our solutions to new horizons & beyond.

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# VELOX SMART INTEGRATED DIAGRAM





# SMART FIRE ALARM CONTROL PANELS



## VELOX 6000 RANGE

VELOX 6000 Fire Alarm Control Panel equipped with groundbreaking features in connectivity based on IoT enabling Smart City Applications

EN54 approved 4G Connectivity with full redundant Ethernet connection. Integration with other IoT Smart City Platforms.



## VELOX 5000 RANGE

VELOX 5000 Fire Alarm Control panels features:

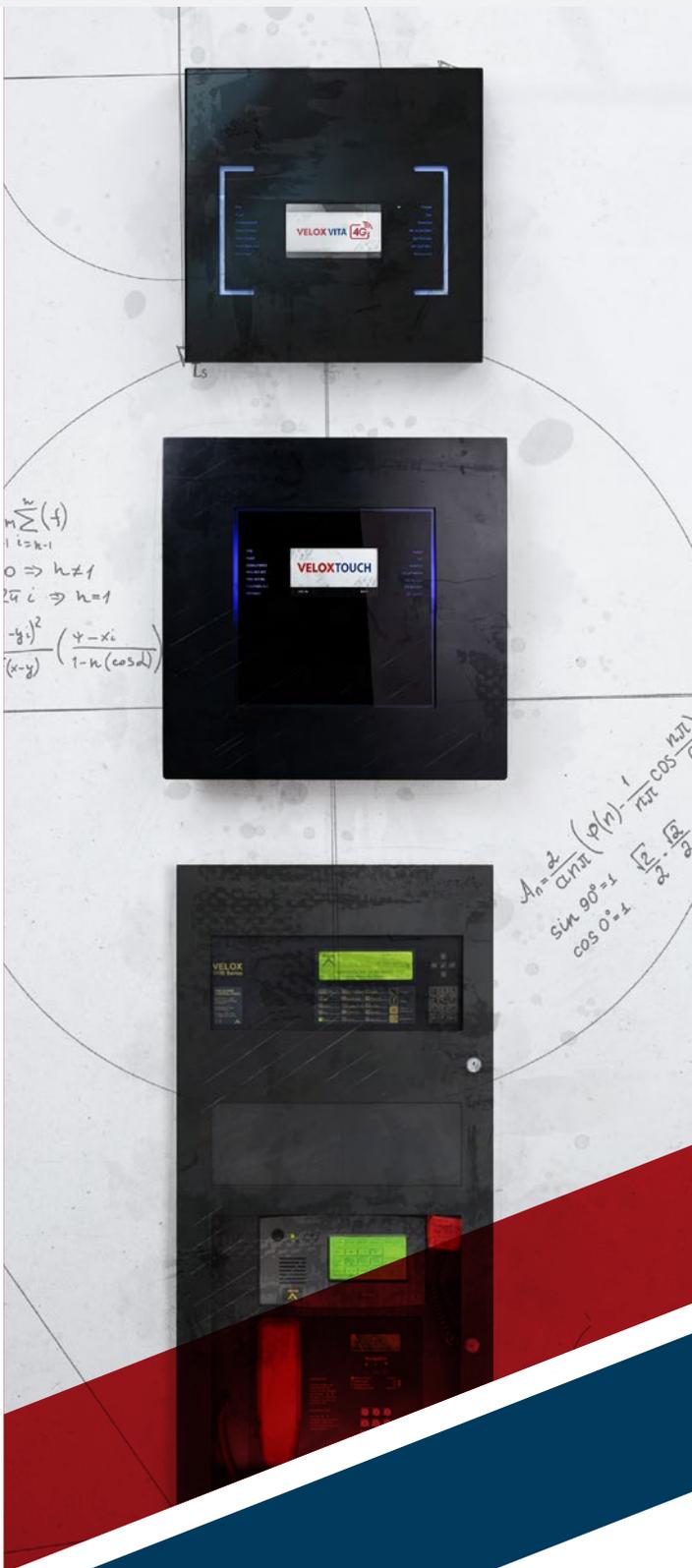
- One to Nine loops in the same compact enclosure.
- EN54 approved IP based Fire Alarm Control Panel.
- Up to 32 panels networked on a single network.



## VELOX 4000 RANGE

VELOX 4000 Fire Alarm Control Panel with the fully integrated mass notification and fire fighters telephone system provides:

The largest wired network of 200 panels. Handles the most complex "Cause & Effect" programming capabilities. Up to 192,000 devices on a single network.



Certified by:



**EVPÜ**

**telefication**

**bsi.**

# VELOX VITA - 6100

## 4G Smart Fire Alarm Control Panel



### VELOX VITA-6100 Analogue Addressable 4G Fire Detection and Alarm Control Panel, Based on 4G & IoT Technology.

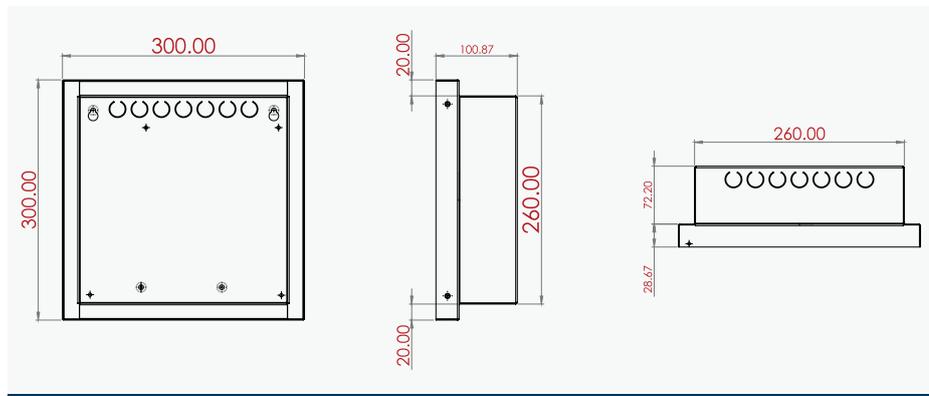
The VELOX VITA is the most powerful yet the smallest Fire Alarm Control Panel. The 30cm x 30cm VITA encapsulates the World First 4G enabled, IoT based 32-bit ARM processor loaded panel, and marks the latest innovation of the VELOX research and development team.

EN54-2 & 4 approved VITA panel is fully integrated with VELOX CLOUD IoT platform over 4G with Ethernet redundancy. The one loop panel can host **240 devices** and can seamlessly network with VELOX 5000 range of panels over wired or IP connectivity.

The VELOX CLOUD provides powerful remote control and monitoring, allowing the VITA to be a true configurable panel over the CLOUD.

The VELOX engineers have made massive progress in the elimination of unwanted alarms caused by cooking fumes, burning incense, charcoal and even smoking. The new feature **False Alarm Disable Enhancement "FADE"** will allow the user with a single touch to activate the FADE feature assuring no false alarm will be generated in the conditions above.

### DIMENSIONS (mm)



### FEATURUES

- World's First 4G Enabled EN54 part 2&4 certified panel.
- 32 bit ARM microprocessor addressable panel
- Can support 240 devices on a single loop.
- Fully IoT based design for smart city connectivity and applications.
- Fully controlled via VELOX CLOUD
- Loaded with ten Languages
- Powerful 192 logic functions between devices and panels
- Customizable Graphic touch screen display (480x272 TFT 4.3")
- Can be networked with VELOX 5000 range of panels.
- Aesthetically pleasing coloured LED panel lighting
- Advanced FADE feature to enable/disable, or change sensitivity of devices with one touch.

### FUNCTIONAL FEATURES

VELOX VITA - 6100	
Operating keyboard	Touchscreen
Optical messages	Led
Acoustic messages	Buzzer
Visualisation of the events	480x272 TFT 4.3"
Serial output for PC	N° 1 – RS232
Event log	Max. 850
Working mode	Guarded/Unguarded
Programming/Management hardware key	Multilevel password
Exclusion of the analogue line	Single – multiple
I/O Modules / Detectors for each line	Max. 240
Programming type	Manual or via the CLOUD
Configuration of the analogue line	192 software zones

Analogue lines connection	Open or closed loop
Length of the detector lines	Max. 2000m
Type of cable	Shielded

### MECHANICAL FEATURES

VELOX VITA - 6100	
Protection level	IP30
Cabinet	Steel
Dimensions (WxLxD)	300 x 300 x 100 mm ( Refer to Dimension Drawings)
Weight (without batteries)	≈ 4.5 kg
Painting	Powder Coating
Color	Black, white

# VELOX CLOUD SOLUTION

Remote Monitoring & Control Platform



The VELOXCLOUD is not just a concept, it is already a reality helping protect many properties from the dangers of fire. The VELOX

## FEATRUES

- Instant notication of Fire Alarm Events.
- Unlimited of connected Fire Alarm Panels.
- Fully Monitored GUI "Graphical User Interface".
- Limit False Alarms Rate & reduce fire security costs.
- Comprehensive maintenance over any smart device.
- Direct reporting to Civil Defence & Maintenance service provider.
- Wireless mesh, TCP/IP or GSM Connectivity Offering Global Connectivity options.
- Pinpoints the fire incident location and fire spread
- Communicates over 4G/LTE, or simply Ethernet.

**CLOUD** gives the ability to connect fire alarm panels together over a **wireless mesh**. This mesh has virtually unlimited scalability and can cover a city-wide application (many hundreds/thousands of buildings). The information flow across the mesh is constantly monitored and should any incidents arise such as a fire or fault in a building, the system will immediately report this information wherever is required.

For example, the system can be integrated into a city-surveillance control room and report to a facilities management provider or even sent to the individual building owner's mobile device so they can see the information in the palm of their hand in real-time. These options are all customizable to the customer's requirements.

The VELOX CLOUD has a user-friendly interface allowing the user to simply and swiftly locate the building, room and specific device information in the event of an incident. The VELOX CLOUD messages & alerts can be accessed via a remote PC, in a control-room for example or on a mobile device using the VELOX CLOUD application.

VELOX can provide a solution from a single villa, to a city-wide application. These innovative Fire Alarm and Smart City applications are only a part of VELOX Life Safety solutions covering most requirements with full engineering and design support from our Facilities in Dubai Silicon Oasis, UAE.

## SOLUTION OVERVIEW



Wireless/Wired mesh of VELOX Fire Alarm Control Panels Connects to Civil Defence through VELOX CLOUD Monitoring station using 4G/TCP-IP or Ethernet.

Feature	Description
Compounds/ Towers/ Buildings management	Creation and description of compounds/towers/buildings with general information as well as information about the owner.
Buildings plan	Upload of pictures/maps (static) corresponding to buildings floors.
Commissioning of a PanelController	Application allowing the configuration of a PanelController in order to associate it to the network. Authorization of a PanelController and creation of a corresponding device in the software.
Record of a fire detector in the software platform	Creation of a fire detector in the software and positioning on the plan.
Buildings maps	Visualization of buildings and towers on an interactive map.
Monitoring of fire and faults	Detection and transmission of fire and fault events.
General evacuation	Possibility to raise a "General Alarm" from the cloud. The signal is then transmitted to every PanelController, which will active a relay on the fire panel.
Fire detectors monitoring	Regular detectors measurements retrieval such as temperature or smoke level made visible in the Cloud software with charts.



## STAY CONNECTED.. STAY SAFE



### PINPOINTS THE FIRE INCIDENT LOCATION & SPREAD

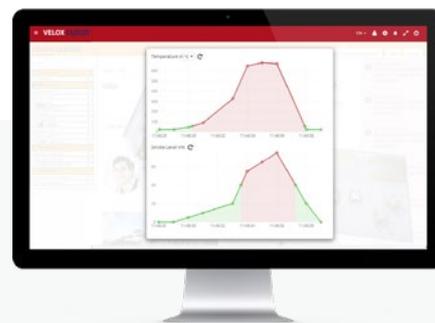
Thanks to the integration of fire panels protocols which allows VELOXCLOUD to locate exactly what is happening inside the buildings. It is possible, thanks the configuration and commissioning step, which allow to upload maps and to locate several the devices: detectors, call-points, alarm, fire panels, etc.

In this way, firemen are able to detect fire location before getting in the place and to evaluate in real-time its propagation in the building. They can prepare themselves in advance, mobilize only the strictly necessary resources and be proactive during their travel.

### EVOLUTION OF TEMPERATURE & SMOKE LEVEL

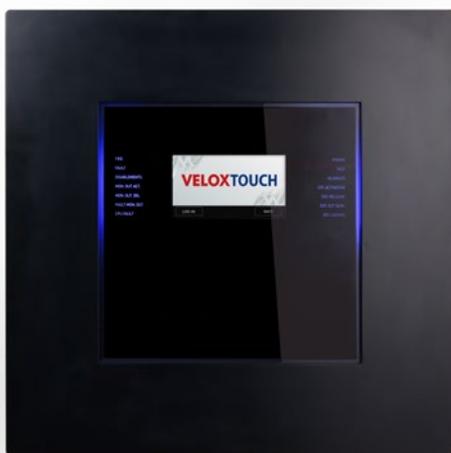
VELOXCLOUD platform offers a large amount of information detected in the field. When a fire starts for example it is possible to see directly the incident in a map and give Evolution of the fire and smoke spread, and the temperature of the incident location.

This amount of data make it more easy for the fire fighters to identify the real situation and prepare themselves in advance. The system is also able to detect false alarms avoiding useless firemen displacements. VELOXCloud, thanks to the richer information that it detects, allows to limit false alarms rate and to decrease fire security costs.



### COMPREHENSIVE MAINTENANCE OVER ANY SMART DEVICE.

The system can also support fire alarm systems maintenance process. If a failure is detected in a device, client will receive a notification email. It will be able then to select a maintenance company and schedule an appointment. Thanks to a mobile application, the technician is able to access information related to the fire alarm system of the client. In the field, he can start automated tests procedures, allowing him to locate the problem. At the end of the maintenance, a report is automatically generated and the technician can ask for the customer signature. Finally, the customer receives an email with a satisfaction form.



# VELOX TOUCH - VT5000

TOUCH Fire Alarm Control Panel

VELOX TOUCH is marking a new era of innovation in fire detection and alarm systems technology. Fully integrated with VELOX range of devices and protocol, it surpasses the performance of any traditional addressable panels in the market place by far.

32 bit ARM microprocessor technology empowers the VELOX TOUCH with enough power to handle 69,120 devices on a single 32 panel network. The capable microprocessor comes with powerful "Cause and Effect" with multi-layer logic control of AND, OR, NOR, or XOR.

Network goes beyond the simple cable network; the VELOX 5000 range is equipped with optional EN54 certified **IP network card**, this will expand the horizon of connectivity to unlimited number of panels monitoring and control.

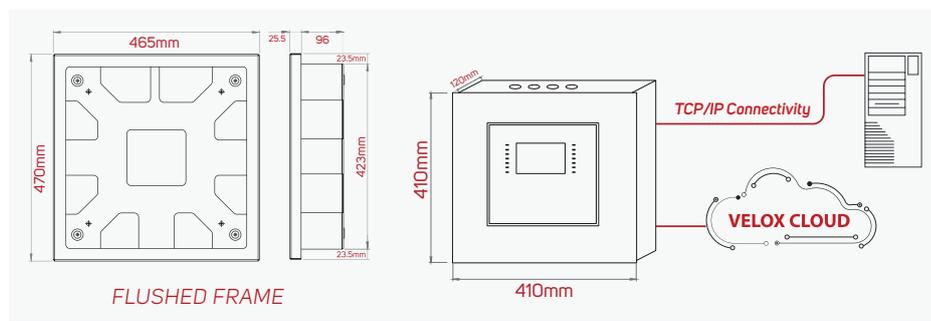
The user friendly TOUCH panel will allow the users to navigate easily between the options for the panel, communicate with more than **10 languages** including Arabic, English, Italian and more.

An optional **Flushing Frame Kit** developed exclusively by VELOX Engineering team makes the already good-looking panel more aesthetically pleasing.

## FEATRUES

- Fully EN54 part 2 and 4 Certified
- One loop expandable to 9 loops in the same compact enclosure.
- Up to 69,120 devices on a 32 panels network.
- Up to 240 devices per loop over 2Km loop length\*
- Unlimited expansions over IP EN54 approved card.
- Fully compatible with VELOX 3D graphical package.
- IP integration with third party over TCP/IP
- 32-bit ARM microprocessor.
- Up to 192 logic functions between the panels.
- Aesthetically pleasing coloured LED panel lighting
- Loaded with ten Languages
- Programmable using USB Stick, Does not need Proprietary Dongle

## DIMENSIONS & CONNECTIVITY



## FUNCTIONAL FEATURES

VELOX TOUCH VT-5000	
OPERATING KEYBOARD	Touchscreen
LOOPS	1 Loop Onboard, expandable to 9 loops
LOOP CARD	2 Loops per Loop card.
OPTICAL MESSAGES	Led
ACOUSTIC MESSAGES	Buzzer
VISUALISATION OF THE EVENTS	480x272 TFT 4.3"
EVENT LOG	Max. 850
I/O MODULES / DETECTORS FOR EACH LOOP	Max. 240
PROGRAMMING TYPE	Manual or via the CLOUD
CONFIGURATION OF THE ANALOGUE LINE	192 software zones

\* SUBJECT TO LOOP LOAD CALCULATIONS

## TECHNICAL SPECIFICATIONS

VELOX TOUCH VT-5000	
Protection level	IP30
Cabinet	Iron
Dimensions (WxLxD)	410 x 410x 120 mm (without Flushed Frame)
Weight (without batteries)	≈ 6 kg
Painting	Powder Coating
Color	Black, white
Operating temperature	(+5 ÷ +35)°C
Minimum Detection Loop Voltage	21.6 V
Backup batteries	2 Nos.of 12V/18Ah or 12V/7Ah
Available current for external loads	500mA
Monitored sounder line	Max. 500mA – 276V DC

# VELOX 4000 Range

## Integrated Fire Alarm Control Panel

VELOX 4000 panels fully integrates 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.

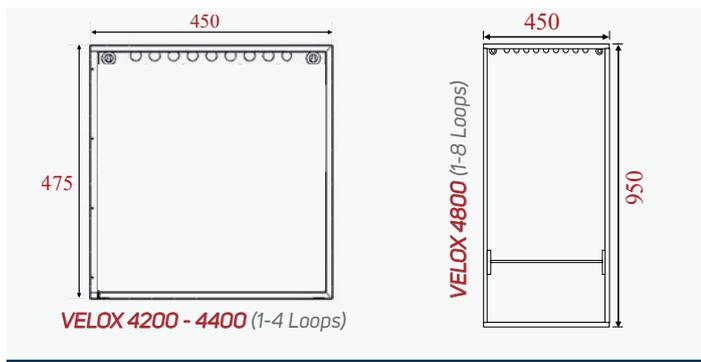
The bespoke panel is fully integrated with addressable fire-man's telephone communication system, that support up to 256 circuits, which can drive telephone jacks or addressable telephone handsets.

The system can handle 240 device per loop, and extend its loop length up to 2Km via 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 Panels can also be networked using Fiber Optic cables with Panel to Panel cable lengths of 2km & 20k on MultiMode & Single Mode cables respectively.

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.



### DIMENSIONS (mm)



### FEATURES

- Approved 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 192,000 devices per network
- True peer-to-peer networking
- Networkable up to 200 nodes
- Loop length extendable up to 2 km
- Multiple language display options
- 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, Printer or Modem Connection
- User-friendly menu and navigation keys

### TECHNICAL SPECIFICATIONS

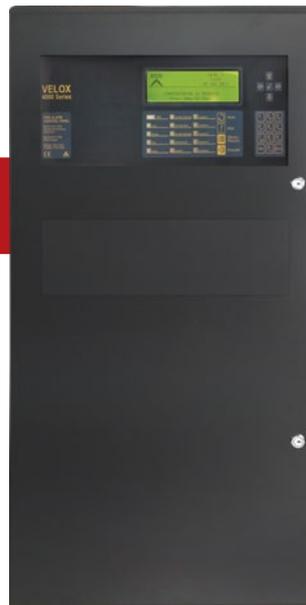
	VELOX 4200	VELOX 4400	VELOX 4800
NUMBER OF LOOPS	1-2. Expandable via individual plug-in loop driver	1-4. Expandable via individual plug-in loop driver	2-8. Expandable via individual plug-in loop driver
LOOP CURRENT	500mA		
ON BOARD RELAYS	2 x 1 Amp 30v AC/DC Programmable		
ON BOARD POWER SUPPLY	5 Amp high efficiency switched mode		2 x 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		24V 48Ah internal
CHARGER CURRENT	2.4 Amp DDP monitored, temperature compensated integral charger		2 x 2.4 Amp DDP monitored, temperature compensated integral charger
APPROVALS	KM 591678 - BS EN54-2 & 4:1998		



## VELOX 4200

2 Loop  
Fire Alarm Control Panel

- One or two loops
- Medium size enclosure
- Maximum 18Ah internal batteries
- Up to 50 additional programmable LEDs
- Up to 8 programmable key switches
- Plexi-glass door option
- Large & Deep enclosure options for larger battery requirements



## VELOX 4800

8 Loop  
Fire Alarm Control Panel

- Two to eight loops
- Extended enclosure
- Maximum 45Ah internal batteries
- Up to 8 programmable key switches

## VELOX 4400 4 LOOP Fire Alarm Control Panel



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

## 4090-4094 Range - POWER SUPPLY UNITS



- EN-54-4 Approved
- Available as boxed and un-boxed versions
- High efficiency switched mode power supplies (1.5A, 3A & 5A models)
- A range of power supply equipment with power output options to suit most applications.
- Power and fault indication

## VELOX 4010 - 4020

### REMOTE DISPLAY AND CONTROL TERMINALS



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

## CUSTOM 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 4030 - 4035

### ON-BOARD AND PORTABLE PRINTERS



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

# SMOKE MANAGEMENT PANELS

*Fully Customized Panel*

VELOX Smoke Management Panels integrates seamlessly with VELOX 4000 range of panels, its fully complying with EN54 regulations.

VELOX Team designs & supplies the smoke management panel customized as per project needs. The unit comes in I/O Combinations in multiples of 50. i.e. 50 IN & 50 OUT, 100 IN & 100 OUT, 150 IN & 150 OUT etc.

The unit is manufactured from high quality MS (Mild Steel) powder coated chassis & acrylic at front. The VELOX Smoke Management Panels (SMP) are having built-on battery charger & batteries which complies with EN54-4 regulations.

Layout, graphics, colors etc. on the acrylic printing can be chosen by customers as per the project needs.

VELOX SMP (Smoke Management Panel) communicates with other VELOX 4000 Fire Alarm panels on peer to peer fault tolerant network ring of copper or fiber optic (optional).

Smoke Management Panel can control & monitor all types of dampers, extraction fans, AHUs. VELOX SMP supports all possibilities to override cause & effect relating to Smoke Management System.



## FEATRUES

- Compliant with EN54 parts 2 & 4
- Customized Manufacturing
- Peer to Peer Networkable on Copper or Fiber Cables
- High Quality Materials used
- Elegant & User Friendly Factory customizable front facia
- Independent Battery Backup
- Works in case of failure of Fire Alarm System
- Possible to work as Standalone or Network Interfaced System
- Multiple language display options

## TECHNICAL SPECIFICATIONS

VELOX SMP	
TEMPERATURE & HUMIDITY	-5°C to 50°C, 95% Humidity (non condensing)
DIMENSIONS	Customised as per requirement
ENCLOSURE	Mild Steel
FRONT FACIA MATERIAL	Acrylic
LED COLORS	Customisable: Red, Orance, Green
SWITCH TYPE	Toggle & Lock-n-key
BUZZER	Frequency 4kHz, Sound Level 60dB (Fire) / 50dB (Fault) minimum @ 1m

## LOOP DRIVER AND ANALYZER - 40710



## FEATRUES

- Full loop scan for identification of devices and fault reporting
- Monitoring of loop current and device status
- Poll data from devices to obtain their most recent statuses
- Loop testing and commissioning via a PC

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.



# VT-GUI & 4500 SERIES

## 3D Graphical User Interface Software

### FEATRUERS

- 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
- Compilable with 4000, 5000 and 6000 range of VELOX fire alarm control panels.

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.

The 4500 and 4501 configuration software for VELOX 4000, 5000 and 6000 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.

The 4503, 4504, 4505 graphical control software is used to setup a user friendly interface to control fire alarm equipment by means of graphical maps, images, and text for monitoring installation sites and program graphical command buttons for enabling or disabling devices.

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



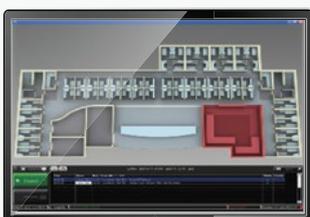
#### 1- NON ALARM CONDITION

The 4500 and 4501 configuration software for VELOX 4000, 5000 and 6000 panels is compatible with Windows operating systems and offers sophisticated 'cause and effect' programming functionalities.



#### 2- ZOOM 1 ALARM CONDITION

The user can then zoom-in into the affected zone and pin point what type of devices or where exactly the incident happened. As well, it allows the user to identify any other systems activated with this alarm.



#### 3- ZOOM 2 ALARM CONDITION

Once any alarm is detected, the system can zoom in to the affected zone, allowing the user to locate roughly where the incident happened.



#### 4- VIDEO VERIFICATION

The software can integrate seamlessly with more than 65 other systems, such as CCTV, access control system, water leakage, and many more. This will allow powerful integration and cause & effect on a different level altogether.

# VELOX MIMIC PANEL - 4600

## 3D Touch Mimic Panel with CCTV Solution



VELOX 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.

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.

### 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.

### TECHNICAL SPECIFICATIONS

VELOX 4600	
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)
TEMPERATURE RATING	0° TO +50°C

### 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.

### 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.

### 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.

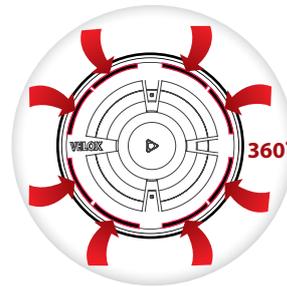
### BACNET/IP/MODBUS INTEGRATOR



The 4130 integrator provides protocol conversion for BACnet, LON, Modbus, RS232, and RS485 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.

# SMART SMOKE & HEAT DETECTORS

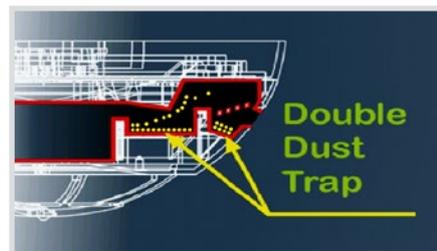
VELOX offering different ranges of smoke & heat detectors equipped with below features:



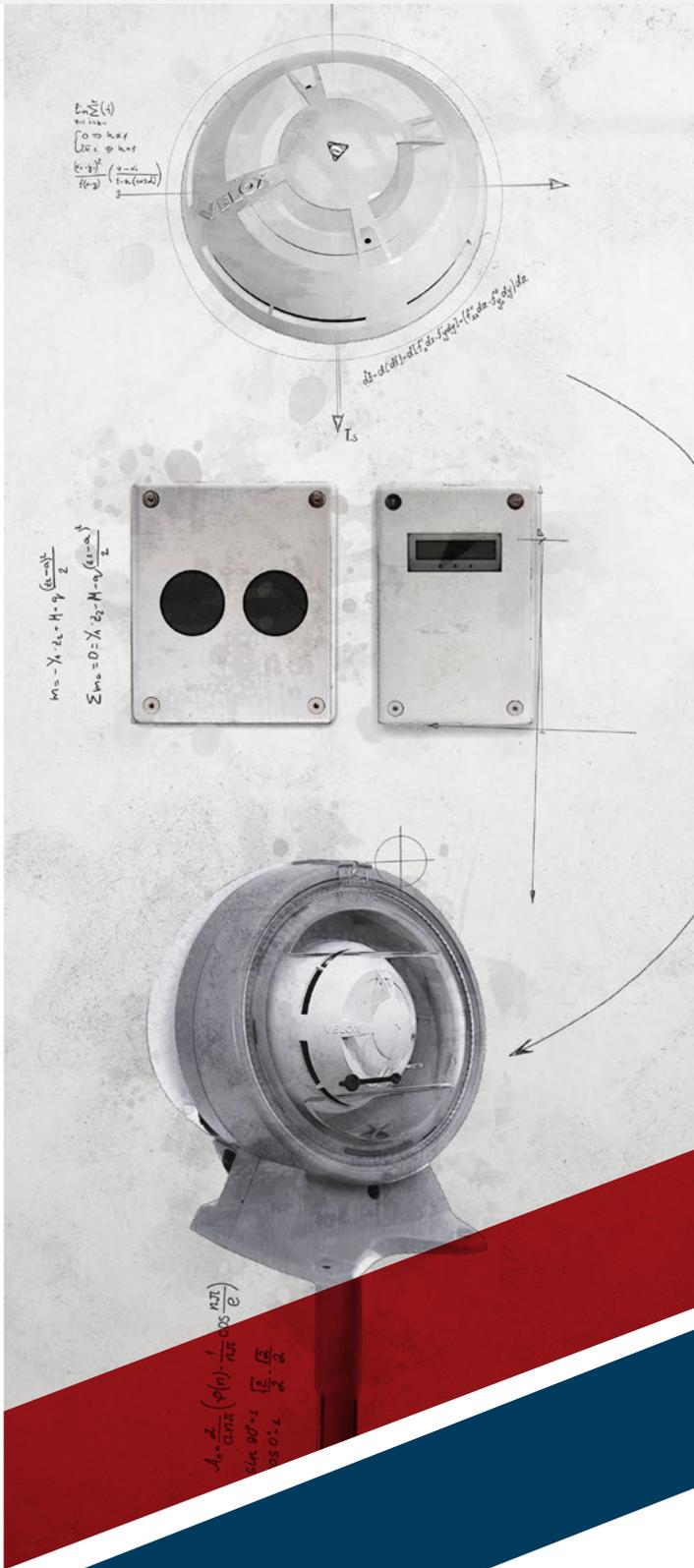
Distributed **"360° Smoke Entry"** into the detection chamber improves the detector's response to fire conditions



The Detectors are responsive to **"Magnet Tests"**, which simulate smoke conditions.



The patented **"Double Dust Trap"** design dramatically prolongs the life of the device



Certified by:



# VELOX 409xx - DETECTOR SERIES

Smart Detectors with inbuilt Isolators



The VELOX 409xx range of intelligent addressable detectors employ optical, heat or multi-criteria technologies allowing the response to sense multiple fire categories including slow smoldering and fast high energy fires, and anything in-between.

The VELOX protocol adapts Variable Time Communication Protocol, which means the communication changes speed during communication with the panel automatically rejecting noise pickup from the installation environment for more reliable communication with the panel.

The 409xx range of devices are equipped with dual colour LED for healthy indication and alarm conditions, magnetic test function, and integrated with **9 level** LPCB approved sensitivity settings.

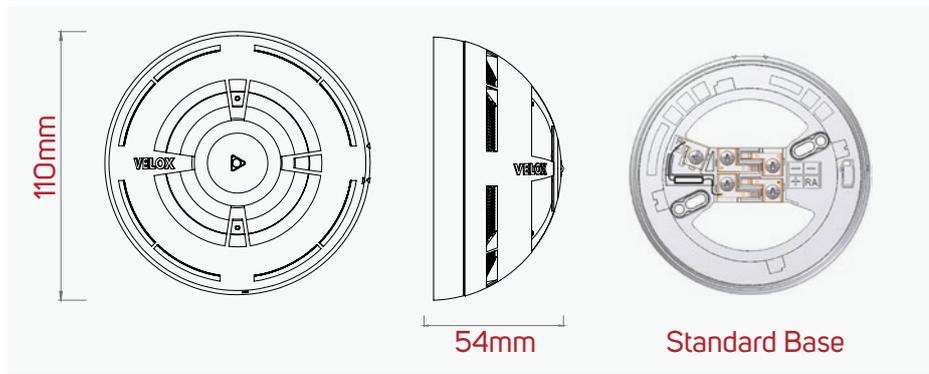
The **patented double dust trap** will also complement the automatic drift compensation allowing the detector to operate even in the harshest environment. The detector is capable of driving up to 20mA of direct current to drive external devices such as relays or magnetic holders, and they are fully addressable. 240 detectors can be connected on a single loop of 2Km loop length, making the 409xx range of devices ideal for mega installations.

VELOX range of detectors are supported with either weather proof surface mounted bases, or indoor bases to suit different applications.

## FEATRUES

- LPCB approved to EN54-7 and EN54-5 A1R
- Inbuilt short-circuit isolators
- Double dust trap prevents direct chamber contamination
- Up to 9 approved sensitivity levels.
- Automatic drift compensation
- Automatic and manual addressing feature.
- Magnetic test features
- 360 degree dual color LED
- High reliability Variable Time Communication Protocol
- 240 detectors up to 2Km loop length
- Addressable 20mA remote output.

## DIMENSIONS (mm)



## TECHNICAL SPECIFICATIONS

	40910	40920	40930
DESCRIPTION	OPTICAL SMOKE DETECTOR WITH INBUILT ISOLATOR	MUTI CRITERIA DETECTOR WITH INBUILT ISOLATOR	THERMAL/HEAT DETECTOR WITH IN-BUILT ISOLATOR
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)		
WEIGHT (STANDARD BASE INCLUDED)	130 g		
STANDARD	EN54 Part 7		EN54 Part 5
SENSITIVITY	4 levels	10 levels	3 levels
COLOR	RAL 9016 & Black as standard (Decorative Colors on demand optional)		
AIR FLOW	10M/S GUSTING FOR UP TO 30 MINUTES 5M/S CONTINUOUS		

# VELOX LV - DETECTOR SERIES

Smart Detectors without inbuilt Isolators



## FEATRUES

- LPCB approved to EN54-7 and EN54-5 A1R
- Double dust trap and protection screen prevent entry of dust or small insects
- Choice of various sensitivity levels
- Tamper detection and fault indication on fire panel
- LED indicator with 360° visibility
- Automatic drift compensation
- 240 devices up to 2Km per loop

## 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.

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
DESCRIPTION	OPTICAL SMOKE DETECTOR WITHOUT ISOLATOR	MULTI CRITERIA DETECTOR WITHOUT ISOLATOR	THERMAL / HEAT DETECTOR WITHOUT ISOLATOR
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		

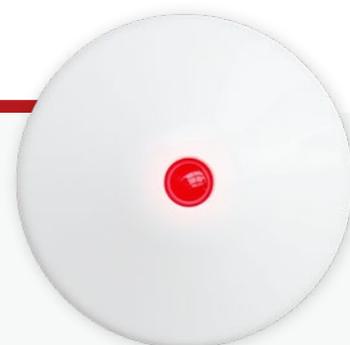
## REMOTE INDICATOR- 3330

State of the art low power consumptions thanks to the VELOX micropower technology.

The Addressable Remote Indicator consumes only 1mA from the loop line, and it is totally addressable from the VELOX range of panels. While the physical connection to the detector, the 3330 addressable unit can react to actions from other detector zones if needed.

## FEATRUES

- 1mA low power consumption
- Addressable remote indicator
- Programmable from the fire alarm control panels to respond to multiple detectors within a zone.
- Directly powered from the detector head



## TECHNICAL SPECIFICATIONS

	3330
AVERAGE CURRENT CONSUMPTION	1 mA
HUMIDITY (NON CONDENSING)	95%
OPERATING TEMPERATURE RANGE	-30°C to +70°C

	3330
BODY COLOUR	White
LENS COLOUR	Red
DIMENSIONS	75 x 75 x 30 mm

# VELOX ASD - 720

## Aspirating Smoke Detector



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. ASD-720 is integrated with VELOX FAS using 40100 Monitor modules.

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 unit needs external 24V DC Power which shall be backed up by Batteries to comply with EN54 standards.

### FEATRUES

- 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
- UL Listed
- Automatic addressing and startups.
- State of the art image recognition detection technology.
- In-built isolator in each VELOX ASD.
- No filters, clearing is required.

### TECHNICAL SPECIFICATIONS

	VELOXASD-720
INPUT VOLTAGE	24VDC
CURRENT DRAW	270mA @ 24V DC
OPERATING TEMPERATURES	0°C to 37.8°C (32°F to 100°F)
AREA OF DETECTION	668m <sup>2</sup> (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)

# STANDARD BASE - 40900



VELOX Standard Base is common and compatible Base for all types of addressable detectors like LVxxx and 409xx.

This adaptor base used to install Standard VELOX smart fire detectors on the ceiling's surface

### FEATRUES

- Compatible Base for all types of VELOX addressable detectors.
- Chrome Plated contacts
- Rust Proof
- High Quality ABS



# VELOX 40950 - DUCT DETECTOR

*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 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.

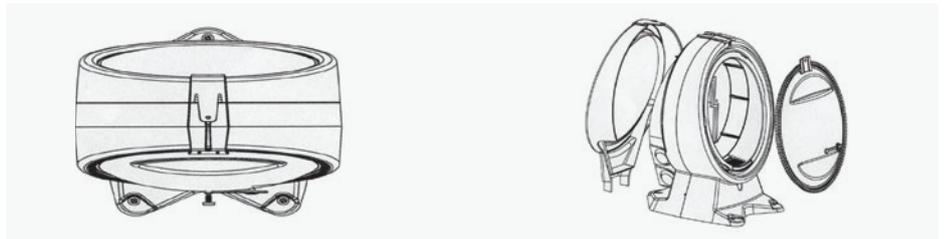
A filter can be attached to the duct detector for operation in dust environments.

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

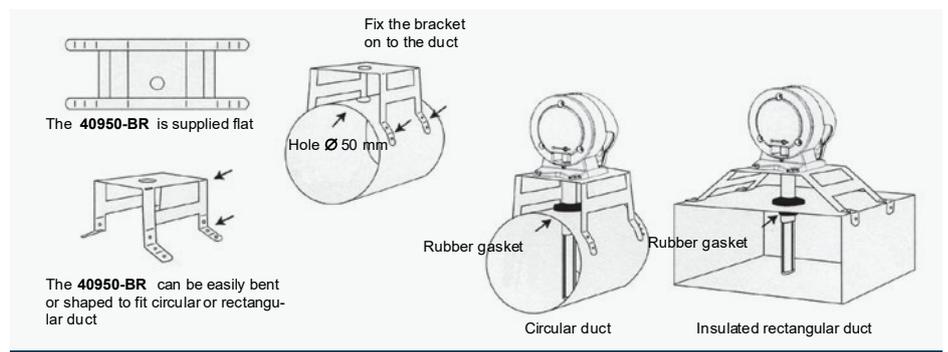
## FEATRUES

- 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

## GENERAL OVERVIEW



## 40950 - BR FOR CIRCULAR OR RECTANGULAR DUCTS



## 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	40950-15	40950-28
	0.6m	1.5m	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		
STANDARDS:	BS5839 parts 1 and 4 EN54 parts 5 and 7		

# FIRE BEAM DETECTOR

*Intelligent Addressable Beam Detector*



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.

FIRE BEAM can be integrated with VELOX FAS using 2 Monitor modules (1x for Fault & 1x for Fire) and shall be powered using External 24V DC EN54 Power Supplies.

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

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

## FEATRUES

- EN54-12 Approved and Certified
- Ground level control
- Laser assisted alignment
- Building shift compensation
- Auto-optimize beam alignment
- up to 100 meters with additional accessories
- up to 100 unit on a single loop

## TECHNICAL SPECIFICATIONS

	FIRE BEAM
ELECTRICAL SPECIFICATIONS	Supply Voltage. 10.2 to 30 VDC Supply Current. 3.5mA (constant current) in all operational states Constant Current. 17mA (constant current) in fast commissioning
ENVIRONMENTAL SPECIFICATIONS	Temperature. -10°C to +55°C Humidity. 10 to 95% RH Non-condensing Protection Index. IP65 when suitably mounted and terminated
OPERATIONAL SPECIFICATIONS	Standard Product 5 to 40 metres 40960-80. Mid-Range Reflector Kit 40 to 80 metres 40960-100. 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))

## HANDHELD PROGRAMMING UNIT - 40700

The handheld 40700 programming unit using The manual addressing features advanced technology in assigning addresses not in sequential, this feature is appreciated when changes are needed after the project handover. 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.

## FEATRUES

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



# SMART SOUNDERS/FLASHERS MANUAL CALL POINT MODULES



## VELOX SOUNDER & FLASHERS RANGE

VELOX offers different ranges of sounder/flashers with minimum power consumption through VERS (VELOX Energy Recovery System) technology.



## VELOX SOUNER BASE

VELOX introduces the world's slimmest sounder base with the lowest power consumption and without consuming any address in the loop.



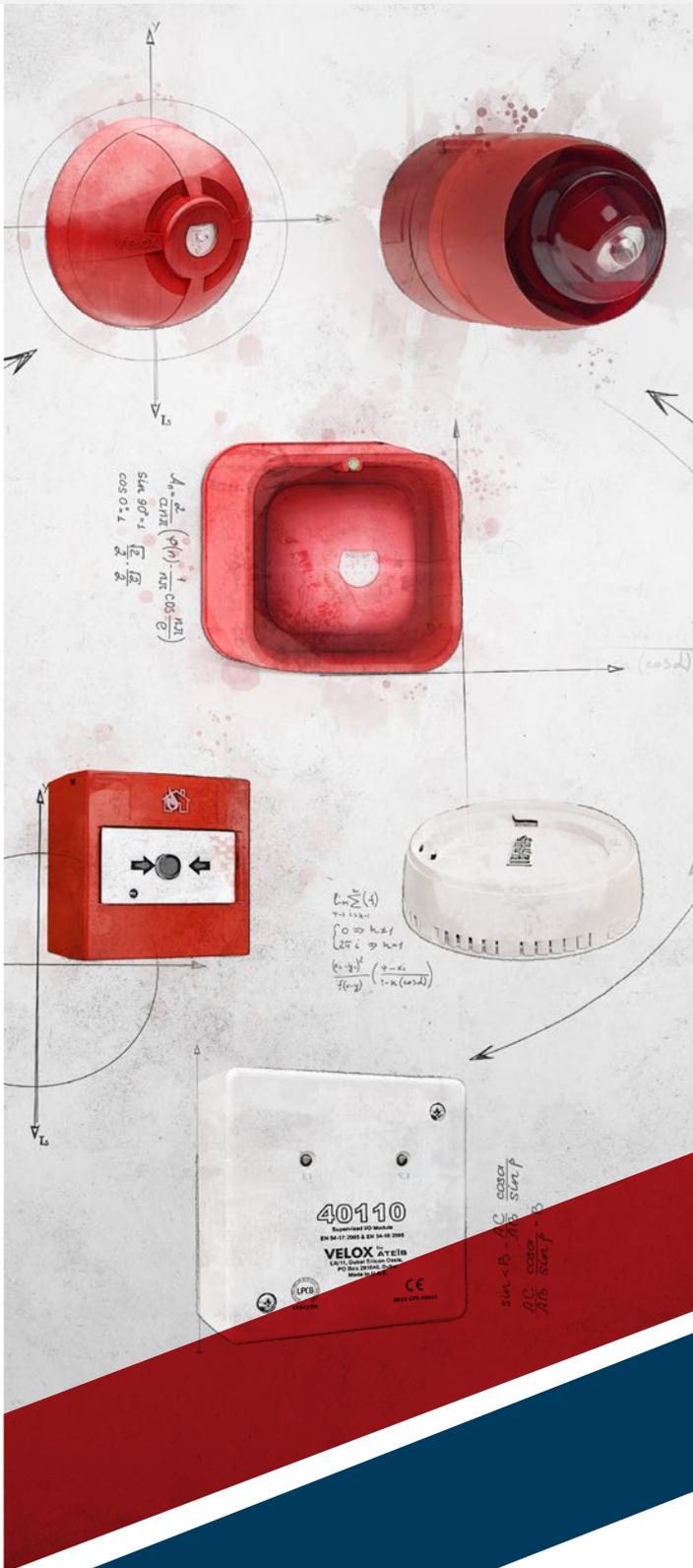
## MANUAL CALL POINT

VELOX intelligent analogue addressable manual call point with bicolour (red/green) LED provides the status of the device.



## VELOX INPUT/ OUTPUT MODULES

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.



Certified by:



# VELOX SOUNDER/FLASHER - 40320

## Addressable Loop Powered Sounder/Flasher



**40320** - indoor Addressable Sounder/Flasher  
**40321** - weatherproof Addressable Sounder/Flasher

VELOX new range of 403xx range Sounders and Sounder/Flasher deploy break-through technology superior to anything seen in this sector of the industry before. The patented VERS (VELOX Energy Recovery System) technology allows the re-direct the kinetic energy of the sounder back to a super-capacitor which allows to save upto 80% of the wasted energy, the result is 3mA power consumption only to power up this device up to 106dBA of sound, and and a flasher that covers 9m x 9m room like no other device in the market.

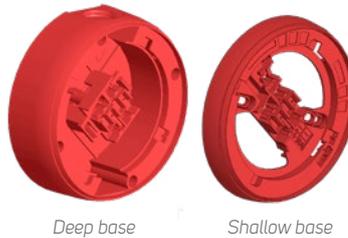
The lower power consumption allows 133 sounder/flashers to be installed on 4000 range of panels and up to 100 sounder/flashers on 5000 and 6000 range of panels. All powered and connected on the same loop.

World first status tri-color indicator has been added on the Sounders and Sounder/Flashers, green for healthy beat, Amber for fault, and Red for Fire. The Sounders and Sounder/Flashers can be installed indoors or IP65 protected for outdoor installation.

VELOX 403xx Range of Flashers are extension to its unique patented micropower technology. With only 3mA of current consumption, 133 VELOX flashers can be connected on 4000 range panels, and 100 flashers can be connected on 5000 and 6000 range of panels. The VELOX Flashers is equipped with unique status indication.

The advanced lens technology allows the flashers to cover a room of 6m X 6m when installed at 2.4m ceiling height, or 9m x 9m room when installed on the wall at a 2.4m height, at 3mA of current consumption only.

The VELOX flashers are supplied with various type of bases for indoor or outdoor installation, and it can be mounted on the wall or ceiling.



Deep base

Shallow base

### FEATURUES

- World's lowest current consumption at only 3mA
- Compliance with EN54-3 and EN54-23 (approval pending)
- Patented technology for the Micro power VELOX Energy Recovery System (VERS)
- World's first Tri-color status LED indicator
- Unique lens to cover 9m x 9m room wall mounted, or 6m x 6m when installed from the ceiling with only 3mA of current
- Sound output of 106dBA with only 3mA of current consumption
- Automatic & Manual Addressing Features
- In-built short circuit isolator in each device
- Shallow base IP21C and deep base IP65C versions
- Deep base variants independently certified to IP65.
- Tone/volume selection from the panel or manually.
- 133 flashers can be connected on a single loop
- Selectable flashing rate as per standards.

### RANGE OVERVIEW



**40300** - indoor Addressable Sounder  
**40301** - weatherproof Addressable Sounder



**40340-W/C** indoor Flasher - Wall/Ceiling Mounted  
**40341-W/C** weatherproof Flasher - Wall/Ceiling Mounted

### TECHNICAL SPECIFICATIONS

	40300 / 40301	40320 / 40321	40340-W/C & 40341-W/C
DESCRIPTION	Loop Powered Addressable indoor/weatherproof wall mounted Sounder	Loop Powered Addressable indoor/weath-erproof wall mounted Sounder Flasher	Loop Powered Addressable indoor/weatherproof Flasher wall/ceiling mounted
Power Supply	The device is powered over the loop		
Alarm current consumption	3mA (at standard protocol supply)		
Sound output volume (adjustable)	85 dB (A) - 98 dB (A)		
Flasher room coverage	9mx9m ( wall mounted) / 6mx6m (ceiling mounted)		
ADDRESSING	Automatic or Manual		
FLASH RATE	0.5 / 1 Hz		
IP rating	IP 21C (indoor) / IP65 (Outdoor)		

# VELOX SOUNDER BASE - 40200

Low Profile Loop Powered Sounder Base



## FEATURUES

- Fully EN54-3 Certified.
- World's slimmest Sounder Base
- Powered from the loop
- Individually controlled
- Does not consume any address
- Up to 200 Sounder Base on a single loop

The VELOX 40200 with the latest sound technology with simple installation 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.

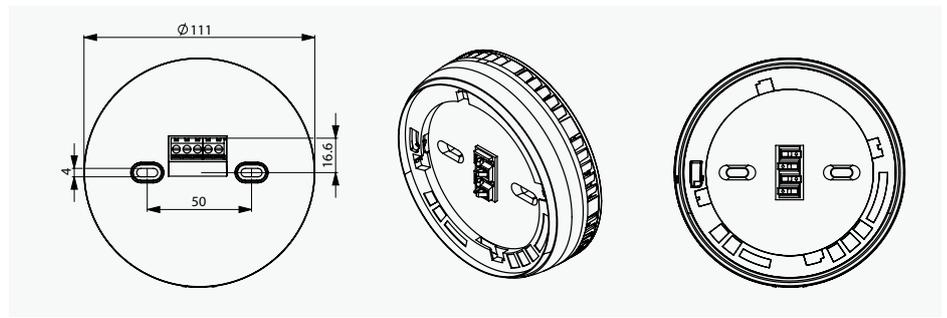
The new VELOX sounder base is a leading technology in alarm systems, fully microprocessor loaded, allowing four differ tones and four different volume to be selected. Furthermore, as low as 1.3mA of current consumption, make it easy to connect 200 sounder base along with 200 detectors.

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.

Enormous engineering efforts have been put into the design of the new VELOX sound base, pushing the limits to achieve a **remarkable slim design**. Only 31.5mm in height, makes the new sounder a low profile that is recommended by many architects.

## OVERVIEW & DIMENSIONS (mm)



## TECHNICAL SPECIFICATIONS

VELOX SOUNDER BASE 40200	
STANDARD	EN54-3
POWER SUPPLY	From 15 Vdc (Min) to 40 Vdc (Max)
ALARM CURRENT CONSUMPTION	1.3mA to 4.5mA (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	200 sounder base
SOUNDER SPL LEVELS (DBA@1M)	73-92 (Varies with tone & Volume Setting )
DIMENSION	111 Dia (:mm), Height 31.5 (:mm)
WEIGHT	145 g
COLOR	RAL 9016 as standards , Decorative colors on demand optional
INGRESS PROTECTION	IP21 C

# VELOX 41000 SERIES

## Loop Powered Addressable Sounder & Beacon



**41320-W-2.4-8/ 41321-W-2.4-8**

Loop Powered Addressable indoor/weatherproof wall mounted Sounder Beacon

The VELOX 41000 Addressable range of Sounder Beacons with state-of-the-art microprocessor-controlled technology, are fully loop powered from the range of VELOX fire alarm control panels. The new range of 41000 devices are fully addressable by VELOX range of control panels, provided with in-built isolators to enhance reliability.

The new 41000 range of devices Approved to EN54-3, EN54-23 and EN54-17. The Loop Powered devices of the 41000 series can be connected and powered from the VELOX 2Km loop length using 1.5mm<sup>2</sup> cable. All the 41000 range of devices are loop powered, which means cost effective wiring, and easy to install on the same fire detection loop. This exceptional feature shall drop the cost dramatically, were many beacons or sounder/beacons are required to be installed on the same fire alarm loop.

Automatic addressing is an added benefit to the many others of VELOX technology, where the fire alarm control panel sequentially addresses each device and makes sure that no duplicate addresses are allowed. Furthermore, when needed to assign an address in a non-sequential fashion, the manual programming via the VELOX detector programming tool is utilised.



### FEATRUES

- Approved - EN54-3 and EN54 part 23
- Built-in Short Circuit Isolator and EN54-17 certified.
- Automatic or Manual Addressing functions.
- Powered from the same fire detection loop
- High-Intensity White Flash
- 0.5Hz and 0.1Hz flash rate available via the DIP switch
- 32 tones plus a selectable override tone
- Deep-Base IP65 versions
- Features base locking system as standard
- Unique twist and lock bayonet mounting system

### RANGE OVERVIEW



### TECHNICAL SPECIFICATIONS

	<b>41300 / 41301</b>	<b>41320-W-2.4-8 / 41321-W-2.4-8</b>	<b>41340-W-2.4-8 / 41341-W-2.4-8</b>	<b>41340-C-3-8-WHITE</b>
DESCRIPTION	Loop Powered Addressable indoor/weatherproof wall mounted Sounder	Loop Powered Addressable indoor/weatherproof wall mounted Sounder Beacon	Loop Powered Addressable indoor/weatherproof wall mounted Beacon	Loop Powered Addressable indoor Ceiling mounted Beacon
VOLTAGE RANGE (VDC)	21-30, LOOP POWERED	18-30, LOOP POWERED		
NUMBER OF TONES	4			
OPERATING FREQUENCY (HZ)	440-2900			
TEMPERATURE RANGE (°C)	-20 to +70			
ADDRESSING	Automatic or Manual			
FLASH RATE	1Hz (approved)			
MATERIAL	ABS FIRE RETARDANT PLASTIC			
FAULT PROTECTION	Inbuilt Isolator			



# VELOX 30000 SERIES

## External Powered Addressable Sounder & Beacon

**30340-W-2.4-8 / 30341-W-2.4-8**

External Powered Addressable indoor/weatherproof wall mounted Beacon

### FEATURUES

- Approved - EN54-3 and EN54 part 23
- Built-in Short Circuit Isolator and EN54-17 certified.
- Automatic or Manual Addressing functions.
- External Powered.240 Devices on Single Loop
- High-Intensity White Flash
- 0.5Hz and 0.1 Hz flash rate available via the DIP switch
- 32 tones plus a selectable override tone
- Deep-Base IP65 versions
- Features base locking system as standard
- Unique twist and lock bayonet mounting system

The VELOX 30000 EN54-23 Approved External Powered Addressable range of Sounder-Beacons & Beacons with state of the art microprocessor controlled technology.

The new range of 30000 devices are fully addressable by VELOX range of control panels, provided with in-built isolators to enhance reliability, and powered externally either from the VELOX range of control panels or any EN54-4 approved external power supply.

The VELOX 30000 Addressable range of Sounders with state of the art microprocessor controlled technology, are loop connected and powered from the range of VELOX fire alarm control panels auxiliary output or any EN54-4 approved power supply. The new range of devices is fully addressable by VELOX range of control panels, provided with in-built isolators to enhance reliability.

The new VELOX 30000 range of devices approved to EN54-3 and EN54-17. The new range of sounders are supplied with 32 tones to comply with world-wide of sounder tones requirements, and thanks for the VTC "Variable Time Communication" protocol of VELOX, all the sounders are fully synchronised.



### RANGE OVERVIEW



### TECHNICAL SPECIFICATIONS

	<b>30300 /30301</b>	<b>30320-W-2.4-8 / 30321-W-2.4-8</b>	<b>30340-W-2.4-8 / 30341-W-2.4-8</b>	<b>30340-C-3-8-WHITE</b>
DESCRIPTION	External Powered Addressable indoor/weatherproof wall mounted Sounder	External Powered Addressable indoor/weatherproof wall mounted Sounder Beacon	External Powered Addressable indoor/weatherproof wall mounted Beacon	External Powered Addressable indoor Ceiling mounted Beacon
VOLTAGE RANGE (VDC)	21-30, EXTERNAL POWERED	18-30, EXTERNAL POWERED		
NUMBER OF TONES	4			
OPERATING FREQUENCY (HZ)	440-2900			
TEMPERATURE RANGE (°C)	-20 to +70			
ADDRESSING	Automatic or Manual			
FLASH RATE	1Hz (approved)			
MATERIAL	ABS FIRE RETARDANT PLASTIC			
FAULT PROTECTION	Inbuilt Isolator			

# VELOX 40800 MCP

## Intelligent Addressable Manual Call Point



**40800**

Intelligent Addressable Manual Call Point

The VELOX Analogue Addressable 40800 Manual Call Point is part of the innovation in Fire Detection, embedded with the VELOX digital protocol, state of the art microprocessor that provide high reliability and fast response time in less than 2 seconds

The high end finish provides the product with complete elegance for surface and semi-flushed installations. Designed with precision, the 40800 Addressable Manual Call point can be tested using a single type of key that provides convenience; to the user, during testing and commissioning.

The 40800 is connected on the same VELOX Fire loop, and more than 240 devices can be dropped on a loop length of 2Km.

The 40800 and 40801 Analogue Addressable Manual Call Points are designed with the latest digital protocol "VTC" by VELOX. This new technology allows the data packets to be transmitted on the Fire Detection Loop for along distances and dose not gets affected with the Cable Characteristics. This technology shall help a healthy communication at the worst site installation conditions, or even during the severe fire emergencies.

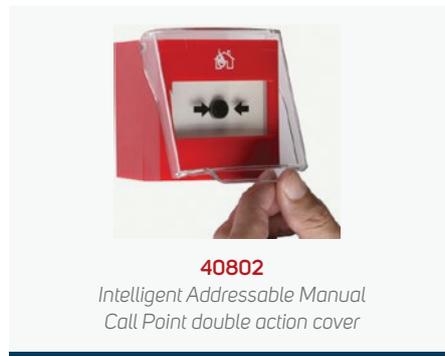
**A bicolour (red/green) LED** provides the status of the device.

**Weatherproof call points** can be installed in humid and wet environments.

### FEATRUES

- Approved - EN 54-11:2001 & EN 54-17:2005
- Transparent plastic window on front panel for activation
- No glass breaking activation
- Key reset mechanism
- Automatic & Manual addressing features
- Inbuilt short circuit isolators
- High reliability communication protocol
- 240 devices up to 2Km per loop
- Inbuilt diagnostics, hardware and software.
- Extreme elegance

### RANGE OVERVIEW



### TECHNICAL SPECIFICATIONS

	40800	40801	40802
DESCRIPTION	Intelligent Addressable Manual Call Point	Intelligent Addressable Manual Call Point Weatherproof	Intelligent Addressable Manual Call Point double action cover
POWER SUPPLY VOLTAGE RANGE	15-40V		
AVERAGE CURRENT CONSUMPTION	70mA		
LED CURRENT CONSUMPTION	6MA @ 24VDC		
OPERATING TEMPERATURE RANGE	-20°C TO +65°C		
INGRESS PROTECTION	IP42	IP67	IP42
DIMENSIONS	(Surface): H87xW87xD35 mm (Flushed): H87xW87xD23 mm	H90 x W89 x D72mm	-
WEIGHT	110G FLUSHED - 160G SURFACE	240G	
HUMIDITY	95% NON CONDENSING		



# VELOX MODULES - 40000

## Analog Addressable Input & Output Modules

The VELOX 40000 Input/Output modules provides reliable connection and integration with third party equipment such as fans, sprinkler units, lifts, gas panels, and many other third party equipment.

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.

**The conventional zone module -40500** is used to monitor and control auxiliary devices in a zone. The conventional module is a practical solution to add conventional detectors, manual call points, etc., to an intelligent fire detection loop, thereby making it possible to monitor the devices from the fire alarm control panel.

### FEATURES

- Fully Approved to EN54-18 for Input / Output Modules standards.
- Inbuilt Isolators complying with EN54-17 standards
- Powered from the loop
- Automatic and Manual Addressing features
- Twin Bi-Color LED for Status and Fire Single
- Up to 240 devices on a single loop
- Devices are controlled and monitored in supervised and unsupervised modes

### RANGE OVERVIEW

**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"X4"**  
The choice of standard 4"x4" box allows the freedom to be either surface or flush mounted.

**CONVENTIONAL ZONE MODULE - 40500**  
Single input, single output module with In-built short-circuit isolator

### TECHNICAL SPECIFICATIONS

	MINI INPUT/OUTPUT					4x4 Addressable Input & Output Modules				
	40100-M	40010-M	40002-M	40110-M	40102-M	40100	40010	40002	40110	40102
SUPERVISED INPUT	1	-	-	1	1	1	-	-	1	1
SUPERVISED OUTPUT	-	1	-	1	-	-	1	-	1	-
RELAY (FORM C) OUTPUT	-	-	2*	-	2*	-	-	2*	-	2*
NUMBER OF ADDRESSES ON LOOP	1	1	1	2	2	1	1	1	2	2
LOOP'S VOLTAGE RANGE	15-40 VDC					15-40 VDC				
AVERAGE CURRENT CONSUMPTION	120 mA (@ 24 V)					120 uA (@ 24 V)				
LED'S CURRENT CONSUMPTION	6 mA (@ 24 V)					6 mA (@ 24 V)				
OPERATING TEMPERATURE RANGE	-30°C to +70°C					-30°C to +70°C				
WEIGHT	180grams					200 grams				
DIMENSIONS	75 x 52 x 28 mm (w/o brackets)					120 x 120 x 57.5 (mm)				

# VELOX SHOP IFU-100

## Customizable Shop Interface



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.

### 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

### FEATRUES

- 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



## MULTIPLE CHANNEL INPUT/OUTPUT MODULES\*

### Multi-input, Multi-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.

### 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	-10 °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>			

\* Pending Approval

# VELOX FIRE TELEPHONE SYSTEM

## Integrated Fire Alarm & Telephone System



The VELOX 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.

## FEATRUES

- 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	VCCM9	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	-	-



## 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



## EVCS TYPE A OUTSTATIONS FIXED HANDSETS

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

## VCRHS - VCRJP

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

## EVCS 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

## VCCM9 / VCCS10

COMPACT 9-LINE FIRE TELEPHONE



- Compliant with BS5839-9
- Up to 5 outstations per system
- Onsite programming not required
- 15 status LEDs
- Full duplex system
- 4 line, 20 character LCD
- Wall mount case
- By using the VCCS10 Unit, the VCCM9 unit can be expanded up to 19 lines.
- Only one 4 core fire rated cable is required to connect the slave to the master

## 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

# PARTS LIST

## FIRE ALARM CONTROL PANELS

PRODUCT CODE	DESCRIPTION
<b>5000 SERIES VELOX ANALOG ADDRESSABLE PANEL</b>	
VT5000	One Loop VELOX TOUCH Fire Alarm Control Panel (1-5loop max)
VT5000 +	One Loop VELOX TOUCH Fire Alarm Control Panel (1-9 loop max)
VT6100	One Loop VELOX VITA panel 30cmx30cm Non Expandable
VT-LOOP-2	2 Loop expansion card
VT-NET-CARD	VELOX- CAN bus network card
VT-IP	TCP/IP network card for Graphics Integration / Third Party
VT-4G	VELOX CLOUD 4G Fall Back to 3G/2G with integrated Ethernet Redundancy Compatible with VITA/TOUCH
VT-PSU	Extended Power Supply unit for VT5000 Panel used if Loops are more than 3
<b>4000 SERIES VELOX ANALOG ADDRESSABLE PANEL</b>	
4200	0 to 2 Loop, analogue addressable, Ateis Colors, w/o Glass Door (no loop cards)
4200 GLZ	0 to 2 Loop, analogue addressable, Ateis Colors, Glass Door (no loop cards)
4200 INT	0 to 2 Loop, analogue addressable Integrated (no loop cards) with microphone & telephone. Please specify type of microphone & telephone
4200 INT/TEL	0 to 2 Loop, analogue addressable Integrated, Telephone Only (no loop cards) with VCM/VCCM9. * Specify telephone to be integrated
4200 INT/PSS	0 to 2 Loop, analogue addressable Integrated, PSS-AS/PSS-G2 only (no loop cards). * Specify microphone to be integrated
4400	0 to 4 Loop, analogue addressable, Ateis Colors, w/o Glass Door (no loop cards)
4400 GLZ	0 to 4 Loop, analogue addressable, Glass Door (no loop cards)
4400 INT	0 to 4 Loop, analogue addressable, Integrated (no loop cards) with microphone & telephone. Please specify type of microphone & telephone
4400 INT/TEL	0 to 4 Loop, analogue addressable, Integrated, Telephone Only (no loop cards) with VCM/VCCM9. * Specify telephone to be integrated
4400 INT/PSS	0 to 4 Loop, analogue addressable, Integrated, PSS-AS/PSS-G2 only (no loop cards). * Specify microphone to be integrated
4800	0 to 8 Loop, analogue addressable, Glass Door (no loop cards)
<b>4000 SERIES LOOP DRIVER CARD</b>	
4001	Loop driver for 4400 /4200
<b>INTERFACE UNIT</b>	
IFU100	Boxed Power Supply for IFU
<b>4000 SERIES REMOTE 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>4000 SERIES NETWORK CARDS</b>	
4420	Standard Network Card
4421	Fault Tolerant Network Card
<b>4000 SERIES NETWORK BOOSTERS AND CONVERTERS</b>	

4003	Fibre optic converter, point-to-point - 820nm (DIN-Rail module), Multimode
4003-S	TCF-142-S-STRS-232/422/485 to Fiber Optic Converter. ST Single-mode.
<b>4000 SERIES 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>EN54-4 PSU &amp; BATTERY CHARGERS</b>	
4090	1.5A EN54-4 PSU & Charger (boxed - 7Ah battery capacity)
4091	3A EN54-4 PSU & Charger (boxed - 7Ah battery capacity)
4092	3A EN54-4 PSU & Charger (boxed - 17Ah battery capacity)
4093	5A EN54-4 PSU & Charger (boxed - 17Ah battery capacity)
4094	5A EN54-4 PSU & Charger (boxed - 24Ah battery capacity)
<b>DAMPER INTERFACE, MIMIC PANEL &amp; SMOKE MANAGEMENT PANEL</b>	
TBA	Customized Damper Interface Module
TBA	Customized Mimic Panel
TBA	Customized Smoke Management Control panel
<b>4000 SERIES BMS/GRAPHICS INTERFACE CARD</b>	
4120	BMS/Graphics Interface with standard network interface (bd). * Software licence required for GUI
4121	BMS/Graphics Interface with fault-tolerant network interface (bd)* Software licence required for GUI
<b>3D GRAPHICAL SOFTWARE (4000 SERIES)</b>	
4507	3D Graphical Control Software ,Single Panel Ateis Fire Software package
4508	3D Graphical Control Software ,Upto 5 panels Ateis fire software package
4509	3D Graphical Control Software ,Upto 20 panels Ateis fire software package
4510	3D Graphical Control Software ,Upto 64 panels Ateis fire software package
4501	4000 series configuration software & USB upload/download lead. * Required for BMS interface to PC connectivity for GUI
<b>3D GRAPHICAL SOFTWARE (5000 VT SERIES)</b>	
VT-GUI-1	3D Graphical Control Software ,Single Panel, compatible with Velox 5000 Touch Panels
VT-GUI-5	3D Graphical Control Software ,Upto 5 panels, compatible with Velox 5000 Touch Panels
VT-GUI-20	3D Graphical Control Software ,Upto 20 panels, compatible with Velox 5000 Touch Panels
VT-GUI-64	3D Graphical Control Software ,Upto 64 panels, compatible with Velox 5000 Touch Panels
VT-GUI-INT	3D Graphical Control Software ,Upto 64 panels, compatible with Velox 5000 Touch Panels with Integration with 3rd Party CCTV, Access Control etc. System. Customised as per customer requirements, Price on Application
<b>2D GRAPHICAL SOFTWARE</b>	
4503	Graphical Control software (single panel compact version)*

# PARTS LIST

4504	Graphical Control software (up to 5 panel connection)*
4505	Graphical Control software (up to 32 panel connection)*
4506	Graphical Control software (up to 128 panel connection)*
4501	4000 series configuration software & USB upload/download lead. * Required for BMS interface to PC connectivity for GUI
<b>4000 SERIES IP GATEWAY</b>	
4124	IP Gateway with Standard network interface
4125	IP Gateway with Fault Tolerant network interface
<b>4000 SERIES BACNET/IP/MODBUS INTEGRATOR</b>	
4130	BacNet IP / Modbus Black-Box converter, for 200 points
4135	BacNet IP / Modbus Black-Box converter, for 700 points
4137	BacNet IP / Modbus Black-Box converter, for 1800 points
4131	BacNet IP / Modbus Black-Box converter, for 2800 points
4134	BacNet IP / Modbus Black-Box converter, for 4800 points
<b>4000 SERIES BACNET/IP/MODBUS INTEGRATOR FAULT TOLERANT</b>	
4130-FT	Customised with IFU100 powersupply + BMS interface FT+ Bacnet modbus converter for 250 points
4135-FT	Customised with IFU100 powersupply + BMS interface FT + Bacnet modbus converter for 500 points
4137-FT	Customised with IFU100 powersupply + BMS interface FT + Bacnet modbus converter for 750 points
4131-FT	Customised with IFU100 powersupply + BMS interface FT+ Bacnet modbus converter for 1000 points
4134-FT	Customised with IFU100 powersupply + BMS interface FT + Bacnet modbus converter for 4000 points

## Velox Cloud Wireless Cards & Accessories

PRODUCT CODE	DESCRIPTION
NFG03E	Velox Cloud Gateway (VeloxGate, DIN format)
NFR03E	VeloxFire Panel Controller-Wireless module
OA-868M05-NF	868MHz 5dBi Omni Directional Outdoor Antenna
LMR-LW400	LMR-LW400: Cable - Standard, Black PE jacket, Times Microwave
CA-SZ400NMK-0002	N PLUG for LMR-400
CA-TC-400SMX-0002	SMA PLUG for LMR-400
RPA10INST	Module allowing both 4G and TCP/IP connectivity of Velox Fire alarm control panel. Pre-installed in panel with internal antenna
2GBOX	Module allowing both 2G and TCP/IP connectivity of non-Velox Fire Alarm Panel to Velox Cloud, in plastic enclosure with external antenna. Requires 24v power supply. Will report fire and fault messages only.

## Detectors

PRODUCT CODE	DESCRIPTION
<b>INTELLIGENT DETECTORS WITH ISOLATORS</b>	
40910	Intelligent Analog Addressable Optical Smoke Detector with In-built Isolator
40910-BK	Intelligent Analog Addressable Optical Smoke Detector with In-built Isolator -Black color
40910-CUSTOM	Intelligent Analog Addressable Optical Smoke Detector with In-built Isolator -Custom RAL color
40920	Intelligent Analog Addressable Optical Smoke & Heat Detector with In-built Isolator

40920-BK	Intelligent Analog Addressable Optical Smoke & Heat Detector with In-built Isolator -Black color
40920-CUSTOM	Intelligent Analog Addressable Optical Smoke & Heat Detector with In-built Isolator Custom RAL color
40930	Intelligent Analog Addressable Heat Detector with In-built Isolator
40930-BK	Intelligent Analog Addressable Heat Detector with In-built Isolator-Black color
40930-CUSTOM	Intelligent Analog Addressable Heat Detector with In-built Isolator-Custom RAL color

### INTELLIGENT DETECTORS WITHOUT ISOLATORS

LV100	Intelligent Analog Addressable Optical Smoke Detector without In-built Isolator
LV200	Intelligent Analog Addressable Optical Smoke & Heat Detector without In-built Isolator
LV350	Intelligent Analog Addressable Heat Detector without In-built isolator

### DETECTOR BASES

40900	Standard Base
40900-BK	Standard Base-Black
40900-Custom	Deep Base

### INTELLIGENT ADDRESSABLE DUCT DETECTOR

40950	Intelligent Addressable Duct Detector enclosure with Standard Base
40951	Intelligent Addressable Duct Detector enclosure with Relay Base
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
40950-DF	Duct Detector Filter

### INTELLIGENT ADDRESSABLE DUCT DETECTOR

FIREBEAM	Intelligent Reflective Beam Smoke Detector
FIREBEAM-BK	Intelligent Reflective Beam Smoke Detector- Black
40KIT80	Range Extension Kit up to 80 meter
80KIT100	Range Extension Kit up to 100 meter
FB-Bracket	Adjustable Wall Bracket
ADAPTER	Mounting Plate for Beam Head or Single Reflector
FOGKIT	Antifog window for head and single Antifog reflector
REF-AF	Single Antifog reflector
WINDOW-AF	Anti fog window
FIREBEAM-AF	Anti fog Firebeam

### ASPIRATING SMOKE DETECTORS AND ACCESSORIES

VELOXASD-720	Aspirating Smoke Detector, single 1 Zone, up to 668 sq.m. (7200 sqft), one supervised sampling pipe
1134P-40	Pipe, CPVC, 3/4", Sch 40, Plenum-Rated, 200' 1 per box (25 Sticks x 8')
1134EQ	Elbow, CPVC, 3/4" 90°, Plenum-Rated, pack of 1 25
1134E45Q	Elbow, CPVC, 3/4" 45° Plenum-Rated, pack of 25 1
1134CQ	Coupling, CPVC, 3/4", Plenum-Rated, pack of 25 1
1134-25MA.	Pro Adaptor, Superseded by RedGear P/N 1 RG5207, Pro Adaptor, Red
1134ECQ	End Cap, CPVC, 3/4", Plenum-Rated, pack of 25 1
10702	Label, Sample Point, 125/roll
SP990021L	Pipe Hanger, Zinc Plated, for 3/4" Pipe
FA0058	Smoke Generating Pen (comes with 6 wicks)
1134TT	Tee, CPVC, 3/4" Plenum-Rated, pack of 20

# PARTS LIST

## Manual Call Points & Sounder/Flashers

PRODUCT CODE	DESCRIPTION
<b>MANUAL CALL POINT</b>	
40800	Intelligent Addressable Manual Call Point
40801	Intelligent Addressable Manual Call Point Waterproof
40802	Intelligent Addressable Manual Call Point double action cover
<b>SOUNDER BASE</b>	
40200	32 Tone Intelligent Addressable Loop Powered Sounder Base
<b>SOUNDER-ADDRESSABLE LOOP POWERED</b>	
41300	Intelligent Addressable loop Powered Wall Mounted Sounder
41301	Addressable weather proof 32 tone Loop Powered Sounder EN54, Cable Size 1.5mm
<b>SOUNDER-ADDRESSABLE EXTERNALLY POWERED</b>	
30300	Addressable 32 tone External Powered Sounder EN54, Cable Size 1mm x 4C
30301	Addressable weather proof 32 tone External Powered Sounder EN54, Cable Size 1mm x 4C
<b>FLASHERS AND SOUNDER FLASHERS-ADDRESSABLE LOOP POWERED</b>	
41320-W-2.4-8	Addressable Loop Powered 32 Tone Wall Mounted Sounder / Beacon
41321-W-2.4-8	Addressable Loop Powered Weather Proof 32 Tone Wall Mounted Sounder Beacon
41340-W-2.4-8	Addressable Loop Powered Wall Mounted Beacon
41341-W-2.4-8	Addressable Loop Powered Weather Proof Wall Mounted Beacon
41340-C-3.8-W	Addressable White Color Loop Powered Indoor Ceiling Mounted Beacon
<b>FLASHERS AND SOUNDER FLASHERS-ADDRESSABLE EXTERNALLY POWERED</b>	
30320-W-2.8-8	Addressable External Powered 32 Tone Wall Mounted Sounder / Beacon, Cable Size 4c x 1mm
30321-W-2.8-8	Addressable External Powered Weather Proof 32 Tone Wall Mounted Sounder Beacon, Cable Size 4C x 1mm
30340-W-2.8-8	Addressable External Powered Wall Mounted Beacon , Cable Size 4C x 1mm
30341-W-2.8-8	Addressable External Powered Weather Proof Wall Mounted Beacon, Cable Size 4C x 1mm
30340-C-3.8-W	Addressable White Color External Powered Indoor Ceiling Mounted Beacon, Cable Size 4C x 1mm
<b>INTELLIGENT REMOTE INDICATOR</b>	
3330	Remote Indicator Connected to Detector Base
3330-BK	Remote Indicator Connected to Detector Base-Black

## Modules

PRODUCT CODE	DESCRIPTION
<b>INTERFACE MODULES-4"x4" ENCLOSURE</b>	
40002	4"x4" Dual Relay (Form-C) Output Module (Exc. Box)
40010	4"x4" Single Supervised Output Module (Exc. Box)
40100	4"x4" Single Input Module (Exc. Box)
40102	4"x4" Single Input and Dual Relay (Form-C) Output Module (Exc. Box)
40110	4"x4" Single Input and Single Relay Supervised Output Module (Exc. Box)

<b>INTERFACE MODULES-MINI ENCLOSURE</b>	
40002-M	Mini Dual (Form-C) Output Module
40010-M	Mini Single Supervised Output Module
40100-M	Mini Single Input Module
40102-M	Mini Single Input and Dual (Form-C) Output Module
40110-M	Mini Single Input and Single Supervised output Module
<b>MULTI-CHANNEL I/O MODULES</b>	
40404	Quad Input and Quad (Form-C) Relay Output Module
40602	Hex input and Dual (Form-C) Relay Output Module
40422	Quad Input, Dual Supervise Output and Dual (Form-C) Relay Output Module
<b>CONVENTIONAL ZONE MODULE</b>	
40500	Conventional Zone Module Interface
<b>PROGRAMMERS &amp; LOOP DRIVER</b>	
40700	Addressable Device Programmer
40710	Addressable Loop Line Driver

## Fire Telephone System

PRODUCT CODE	DESCRIPTION
VCM-AT	Vocall Master Handset (rackmounted with GREEN LCD display)
VCX8-AT	Vocall eight line exchange
VCCM9	VoCALL Compact 9 Line Master Unit
VCWM	VoCALL master handset with 4 line 20 LCD
VCCS10	VoCALL 10 Line Slave Exchange Unit
VCRHS	Fire telephone roaming handset
VCFHP	Flush Type A handset push door
VCFHP-SS	Stainless Steel Flush Type A handset push door
VCSHP	Surface Type A handset push door
VCSHP-SS	Stainless Steel Surface Type A handset push door
VCRJP	Roaming handset jack point on MK plate
VCRJPP	Surface Type B handset
VCSHF	Type B Vocall surface with Red Overlay
VCSHF-SS	Stainless Steel Surface Type B handset
<b>FIBER OPTIC CABLE</b>	
VOM312	Fire Resistant Fibre Optic Cable - Black with Red/Stripe, 12 Core, 50/125um, OM3 Multi-Mode
VOS212	Fire Resistant Fibre Optic Cable - Black with Red/Stripe, 12 Core, 9/125um, OS2 Single-Mode

# REFERENCES

Many projects have already been installed by VELOX & 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 VELOX high end products have regularly been implemented to fulfill their demanding requirements.

## Middle East:

**Dubai** • MALL OF EMIRATES • DEIRA CITY CENTER • Metro Dubai Red & Green Line • GROSVENOR HOUSE HOTEL TOWER • Emirates Towers • DAMAC MAISON TOWERS • Dubai Festival Center • Mirdif Mall • JAL Tower Hotel • Dubai Civil Defense HQ • Ibn Battuta Twin Tower • LA VILLE HOTEL • 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 • GREEN COMMUNITY • ROXY CINEMA - CITY WALK • Damac BurjSide Boulevard • City Premiere Hotel at Dubai Marina • Le meridian Hotel at Mina Siyahi • Fujairah Commercial Complex • CLAREN TOWER • 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

• Fujairah City Center • Ajman City Center • Union cement factory, RAK • Union fiber glass factory, RAK • Double Tree by Hilton, RAK • RAK Hotel • Capital Hotel at RAK • Muscat City Center

**Abu Dhabi** • AL MARYAH CENTRAL • yas waterworld • Ferrari World • Sky Tower-Al Reem Island • Alwahda Mall • Al Quaa KG • Egyptian Orthodox Coptic Church • Capital Plaza Mixed Use Development • Holiday Inn-Danet • Delma Mall • VOX CINEMAS • Masdar Institute of Science & Technology • Sheikhha Salama Grand 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 • TELAL RESORT - ALAIN • Novotel & IBIS Hotel - Abu Dhabi Gate • Future Schools • Burjeel Hospital • Bab Al Qasr • Al Ain Convention Center • Rihan Heights Arzaneh 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 Emerian 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 Bas.

**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.

**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

**India:** Cognizant Technology Solutions • TATA AIG • McKinsey & Company • Ashok Tower • Mumbai Cricket Academy • Bharti Airtel • COSY RESORT, GOA • Edelweiss • CapeGemini • Di-giCable • 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 Generally • IBIS • Novotel • JNPT Office • Dahisar Church • Honda Factory • New Era School • VLCO • Viner PMC Consultant • IBIS HOTEL, NAVIMUMBAI • Vesta Hotel • Trident Oberoi • Pawan Hans Helicopters • Shoppers Stop • Quest • Taj Mahal Palace Hotel • Hilton Indus Hotel • Ahmedabad Airport • Ashok Garden Residential Complex • Holiday Inn • ASHOKA HOTEL • Sena Bhavan • NASA Corporate Office • Lodha Bellissimo Residential Complex • Lotus IT Park • Financial Technology Corporate Office • Cosy Resort • Rajasthan Sammelan • Nanded Yeshwantrao Chauhan Museum • Synergy • Dawn Mills • Columbia Asia Hospitals • Jamia Millia Indoor Stadium • ADP • Toyota Bidadi • 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 • Wynthamm Hotel Delhi • Isbt Bus Terminal • Pawan Hans Helipad • Commonwealth Games Village • RADISSON GREATOR NOIDA • Tata Motors • Wynthamm Hotel Delhi • World Trade Centre • Orion Mall • Brigade Office N Food Court • Bhuvneshwar Airport • Bnp Paribas • Raipur Railways • Kolkata Airport • Vadodara Airport • Hexaware • Aga Khan Academy • Jsw • Faureca • Inautix • Kga Hotel Kerala • Sabc Pharma • Century Mills • Century Bhawan • Cgo Complex • All India Institute of Medical Science, Bhopal (AIIMS).

## Portugal:

Conference Rooms in the Hotel & Casino of "Chaves" • City of Chaves • "Colombo" Shopping, Lisbon • Conference Room of "Carcavelos" local hall, Village of Carcavelos • Conference Room of "Academia Militar" School, Lisbon • City Hall swimming pool of "Covilhã", City of Covilhã • "LUZ" Stadium systems improvement (Benfica Football Club Stadium), Lisbon.

## Italy:

Battistero del Duomo, Pisa • Santuario Madonna dei Miracoli, Casalbor-dino, Chieti • Santa Maria della Scala in San Fedele, Milano • Duomo di Gambarare, Mira, Venezia

## Turkey:

VAKIFLAR primary school • SO ANLI Cultural center • CEYLAN dormitory for females • Turkish Government Railway • Turkish highway commission building • BANKERHAN boutique hotel • AY merchandising headquarters • SAMANDIRA carpentering factory • PAS NLER and KARAÇOBA family health centers • dormitory with 300 capacity • Eren Energy • asphalt motorway factory • Miranda construction company • ERE L KURTULAR Primary school • ARTUKLU University • M MARS NAN Industry High school • Bitlis emergency hospital • GEL BOLU University • Quran course for females • Düzce school with 8 classroom • KIRKLAREL government hospital • Government electric authority guesthouse • MUDURNU government hospital • BAHC E H R MAV shopping mall • AMASYA waste water purification plant • T TAN K dormitory for females • A ri private dormitory • GENCO logistics • Darca Quran course • AKDEN Z DO U hospital • RAY TES railway • B MEKS merchandising • ULUDA University • FLORYA ALRAZ Hotel • government land registry cadastre • Karasu school to train government employed imams • HANTEK primary school • School with 32 classrooms • ÖZ N AAT residence project • HATEMO LU Hotel • PARK 23 Shopping mall • EKERPINAR Dental care center • KOZCA IZ school to train government employed imams • B LFEM private high schools • A plaza business center • STANBUL University AVCILAR campus • BAYAT sport center • TK SOMA government machine management authority • BEYKOZ logistics high school • ADNAN MENDERES University living center • ÇANDARLI power distribution building • Osman Çnar secondary school • HAZRO school with 32 classroom • Bozca Island health center • Cultural center

## Denmark:

The Crowne Plaza i Part, Copenhagen • Crowne Plaza Hotel Copenhagen (Copenhagen Towers) Opening nov 2009 • H&M Main Store Amagertorv, Copenhagen • Føtex Food Hassers, Aalborg • Føtex Food Guldsmedegade, Aarhus • DS Centralstock, 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 Galery Theater Arenberg, Brussels • Imagimons, Mons • Carrefour, Belgium • Bierst 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 • Pictet bank, Geneva • Theater, Sankt Gallen • Tramway maintenance center, Basel • Notre-Dame church, Vevey • Airport, Zürich.

## Hong Kong:

Hong Kong Airport, Hong Kong.

## Norway:

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

## Slovakia:

SAMSUNG LCD factory, Voderady • HANSOL LCD, Voderady • BANG JOO 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 • Mediacerent, 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 shopping, 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, Oust Lyonais, Sarrebourg, Chambéry, Brest, Morlaix, St Briec, Guingamp, Valence ville, Hazebruk, Roanne, Paris Nord, Paris Est, Nimes, 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 •

*Leap in Innovation*

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