THE VIGILON
SYSTEM

FIRE

Verify

Menu On/Off

F1

F2

VERIFY

SILENCE
ALARMS

RESET

CANCEL
BUZZER

Honeywell
G E N T

THE VIGILON SYSTEM

Our Vigilon Plus System is the most comprehensive life safety system available in the market today. The combination of the powerful software in the control panel and the intelligent loop powered devices delivers a flexible, easy to use system for all types and sizes of buildings.

Vigilon's modular concept makes systems simple to design for any building. Panels can be installed as standalone units or as multi panel networks of 200 panels/nodes.

Compact Plus is ideal for smaller systems needing up to 2 loops, while Vigilon Plus can manage up to 6 loops, allowing easy and flexible panel selection.

Vigilon Plus panels are available with 24 and 72 hour standby power supply options.

Both panels can be installed in the same network.

RESPONDS QUICKLY TO REAL FIRES WITHOUT THE RISK OF FALSE ALARMS

- Vigilon's advanced sensing technology and powerful software processing in the control panel quickly identifies real fires

- Powerful software algorithms are used to match the pattern of activity in the sensor with data from test fires stored in the panel memory. False inputs that do not match a real fire pattern are ignored or flagged as faults

- The latest Vigilon range of S-Quad multi-sensors incorporates four separate technologies in the same sensor that combine to create a range of sensing states appropriate for different environments

- Unique programming options allow these different sensitivity states to be used to reduce the likelihood of known risks triggering a fire, thus avoiding unnecessary evacuation while maintaining the ability to give a fast response to a real event

COST EFFECTIVE TO INSTALL

- The Vigilon loop manages the largest number and variety of devices, with up to 200 sensors, sounders and interfaces connected to the same 2 core loop circuit

- Vigilon loops have a high capacity for field alarm devices with loop-powered sounders, VADs and interfaces, removing the need for auxiliary power supplies

- Every loop device includes an integral short circuit isolator, reducing installation costs at the same time as increasing system integrity

- Multi-function devices combining sensor, sounder, speech and EN54-23 visual alarm reduce the number of individual devices that need to be installed

- Every S-Quad sensor has a configurable, monitored input. This can be used instead of an interface, saving on installation and product costs

FLEXIBLE AND SIMPLE TO USE

- The Vigilon control panels have a simple user interface with an LCD screen, which provides accurate information in an emergency

- Every Vigilon loop device has a unique address assigned in software. Text labels, of up to 64 characters, can be assigned to each address. This allows fires to be located quickly and assists troubleshooting in commissioning and maintenance

- PC based commissioning tools release powerful programming options that allow complex fire plans to be configured without extra equipment

- Flexible programming options are available at the panel, so minor changes can be made without the need for PC tools

- Multi-panel networks can be programmed seamlessly as one system. This allows for flexible design and system management

- Vigilon Systems can be easily extended or changed. Additional loops and extra panels can be added without affecting the operation of the existing installation

PROVIDES PEACE OF MIND

- The Vigilon panel, S-Quad sensors and S-Cubed sounders are certified by LPCB to EN 54 (the European standard for fire detection systems)

- Loop architecture combined with short circuit isolators in every device ensures maximum tolerance to cable faults

- S-Quad sensors can be locked into their base protecting them from unauthorised removal

- Advanced loop and network communications protocols ensure a rapid response to fire triggers, achieving a response in under 3 seconds, even across networks

- Gent ensures that every system is designed, installed, commissioned and serviced by highly trained Gent approved System Integrators
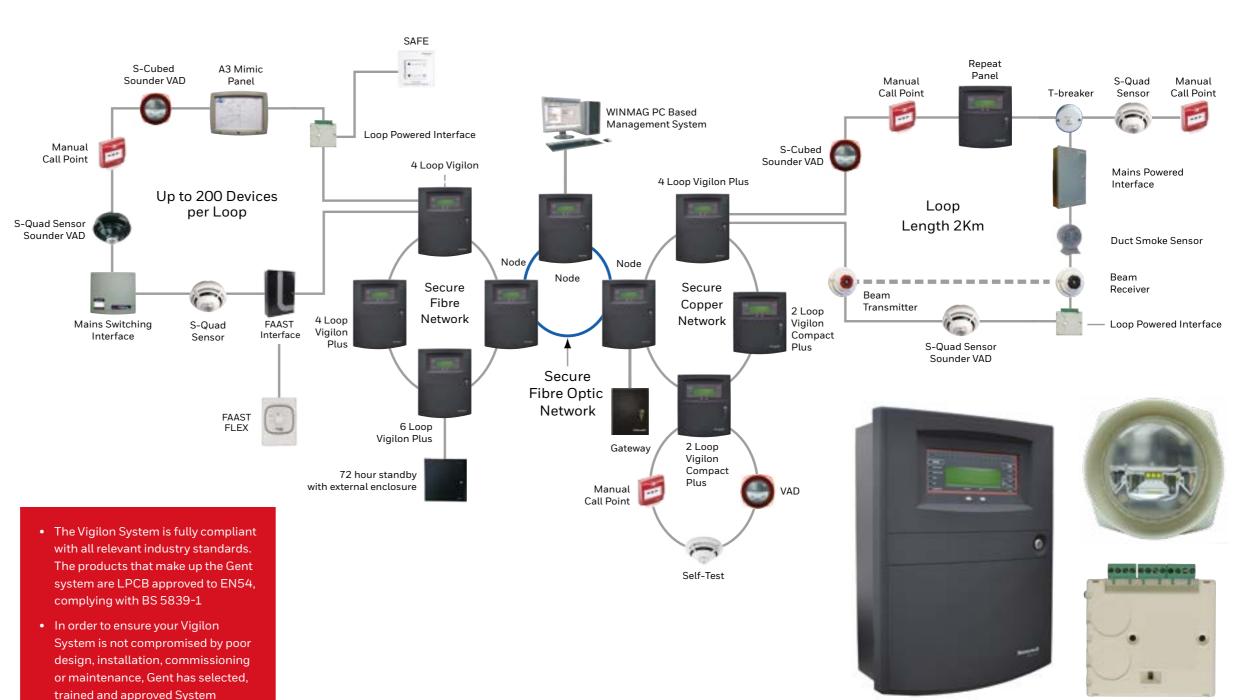
SYSTEM ARCHITECTURE

A multi–domain Vigilon Network has the capacity to support up to 200 panels per system.

- All products in the Vigilon System are manufactured by Gent, which ensures experienced, consistent workmanship throughout your entire life safety system

- The Vigilon System has fully integrated solutions with Voice Alarm and Public Address systems, as well as the cloud–based Connected Life Safety Services (CLSS) platform. In addition, its wide Interface range allows inputs and outputs to other building management and life safety systems.

- Vigilon's powerful software gives you the ultimate flexibility to pre-configure detection states based on the time of day, building use or any other customer driven parameter

- SOFT or SAFE addressing across the system eliminates duplicate addresses, allows the building user to switch device type without affecting the address and allows additions to the system without affecting site drawings

- SOFT or SAFE addressing across the system eliminates duplicate addresses and allows the building user to switch device type without affecting the address. It also allows additions to the system without affecting site drawings

- The Vigilon System is fully compliant with all relevant industry standards. The products that make up the Gent system are LPCB approved to EN54, complying with BS 5839-1

- In order to ensure your Vigilon System is not compromised by poor design, installation, commissioning or maintenance, Gent has selected, trained and approved System Integrators to support Vigilon to its optimum performance

SAFE

S-Cubed Sounder VAD
A3 Mimic Panel

Loop Powered Interface

Manual Call Point

4 Loop Vigilon

Up to 200 Devices per Loop

S-Quad Sensor Sounder VAD

WINMAG PC Based Management System

Mains Switching Interface

S-Quad Sensor

FAAST Interface

4 Loop Vigilon Plus

Secure Fibre Network

Node   Node
    Node

Secure Fibre Optic Network

Secure Copper Network

4 Loop Vigilon Plus

S-Cubed Sounder VAD

Manual Call Point
Repeat Panel
T-breaker
S-Quad Sensor
Manual Call Point

Mains Powered Interface

Loop Length 2Km

Duct Smoke Sensor

Beam Transmitter

Beam Receiver

Loop Powered Interface

2 Loop Vigilon Compact Plus

S-Quad Sensor Sounder VAD

FAAST FLEX

6 Loop Vigilon Plus

72 hour standby with external enclosure

Gateway

Manual Call Point

2 Loop Vigilon Compact Plus

VAD

Self-Test

S-QUAD SELF-TEST (S4T) SERIES

S-Quad's market leading technology advances even further with our Self-Test series of detectors (S4T). The S4T device is a brand-new design which incorporates all the great S-Quad features and more.

The device has a new IP21 external moulding, new detector chamber design and a dual microprocessor PCB. This design delivers even better smoke detection and voice storage capacity. In addition, the award-winning Self-Test feature allows both the heat and optical sensors within the device to be tested using the CLSS App.

The Self-Test patented design performs real sensor tests by heating the heat sensing thermistor and generating real aerosol (smoke) to test the optical sensor. The small fan within the device gently blows the aerosol from the detection chamber, through the detector's smoke entry points, into the room. This method simulates a more realistic fire test than many traditional testing methods, ensuring that the smoke entry points are not blocked and able to detect a real fire.

Each device also incorporates Bluetooth Low Energy (BLE). When activated, BLE acts like a beacon in each detector that can be automatically detected by a mobile device using the CLSS App. This has many helpful features such as finding a device automatically, ensuring the device details are correct and proving that an engineer has been within the visual inspection range.

KEY SELF-TEST & CLSS FEATURES

- Available in a large range of multi-sensor, Part-23 VAD and sounder/ voice options.

- Enables discrete functional testing and visual inspection of the fire alarm system by reducing the engineer toolset to just a mobile device (phone or tablet). No more impact on building occupiers.

- Tests both the heat and smoke sensors by heating the thermistor and introducing small amounts of smoke into the detection chamber.

- Gently blows the smoke out of the detection chamber and smoke entry points to ensure they are not blocked.

- Flexible testing options allow the engineer to test in different ways – single device, detection zone, loop(s), panel(s).

- Allows up to 6 devices to be tested at once per loop and any number of loops can be tested simultaneously, making the functional testing incredibly fast.

- Device testing is fast enough to allow up to 4 functional tests to be performed per year for the lifespan of the device.

- Eliminates all access issues when detector testing, ensuring 100% functional testing is achieved.

- Allows the system to remain active whilst testing as each detector is only offline for 60 seconds and outputs are not generated.

- Any fires detected outside of the devices performing Self-Test will stop the Self-Test process and operate the fire systems' Cause & Effect.

- Allows the engineer to easily locate the detector using the App and BLE to check the device number, label, zone description and detector type.

- Allows simple device updates to be performed through the App, including the correction of inaccurate device labels and loop mapping.

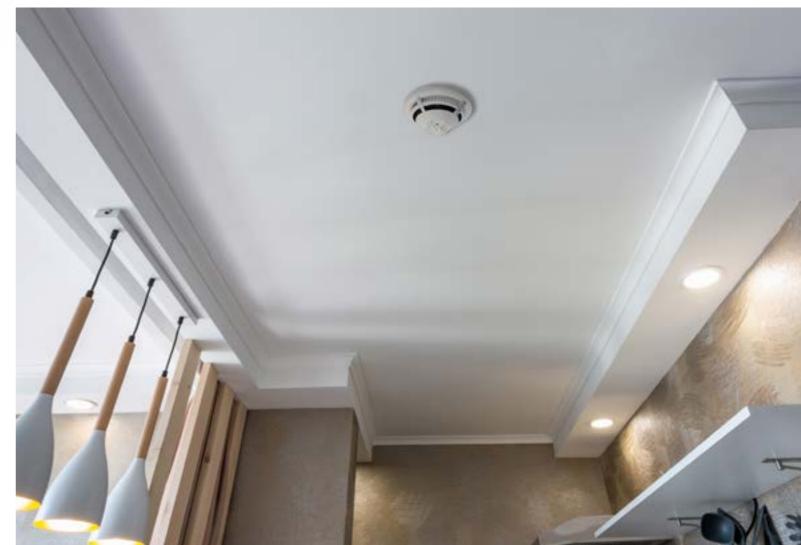- The app and BLE handshake verifies that the engineer has been within visual inspection range.

- Optional Inspection prompt LEDs on the device let the engineer know what Self-Test devices need to be visually inspected and will automatically turn off when the visual inspection is complete.

- Engineers can spend more time digitally capturing non-compliance issues and advising how to resolve them. This includes any issues causing false alarms.

- Test Fire LED option in the App allows the fire LED to be tested (a pending BS5839-1 testing requirement). This feature can additionally confirm that they are inspecting the correct device.

- The CLSS App allows the engineer to simulate a fire and test the Cause & Effect logic.

- The CLSS App also allows the Cause & Effect to be triggered through a successful Self-Test operation, allowing a witness test to be performed using real smoke.

SYSTEM REQUIREMENTS

- Self-Test features compatible with Vigilon and Compact Plus panels only..

- Backwards compatible as a detector and AV device only.

- MCB / MCC and loop cards will require firmware upgrades to operate Self-Test and BLE features.

- Only supported on current EN54 loop cards (not legacy loop cards).

- Requires a CLSS gateway (1 per network domain).

- Requires the CLSS mobile app.
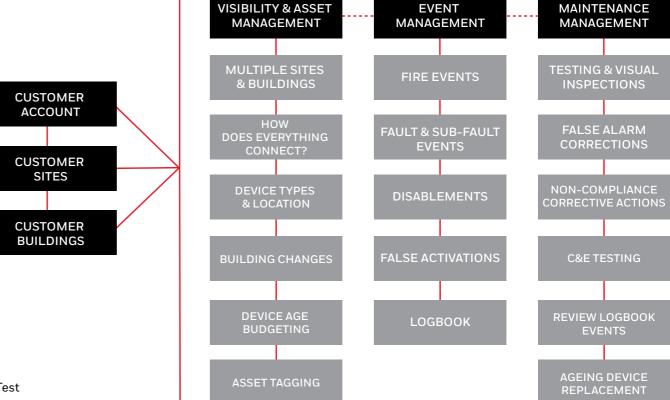
REPORTING AND MONITORING

- A full compliance report can be generated on completion of the testing.

- The number of Self-Test's consumed per device is captured through CLSS, enabling a quick check of usage.

- Reports identify how devices have been tested – manually or through Self-Test.

- Reports identify how the device was visually inspected, with or without BLE.

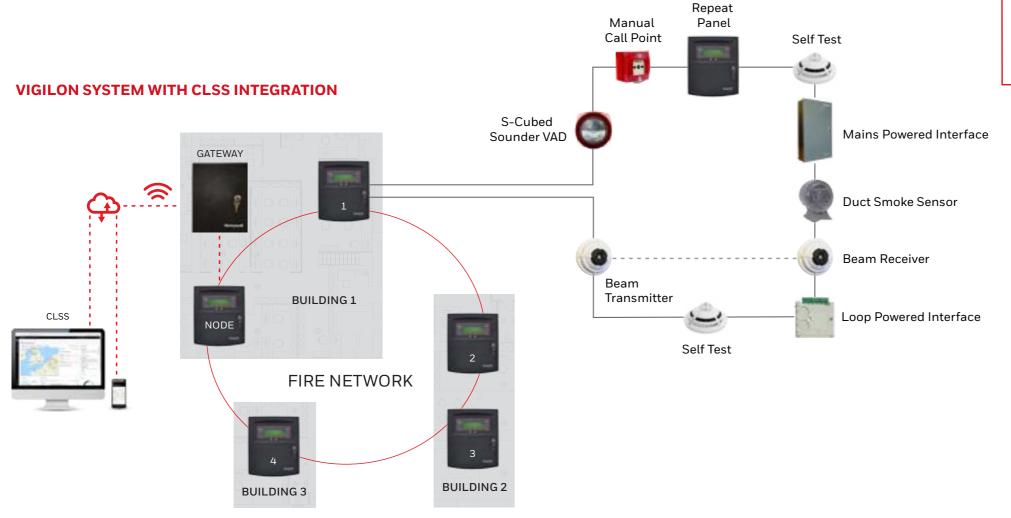- Any corrective actions are also captured in the reports.

VIGILON CLOUD CONNECTIVITY

Honeywell's Connected Life Safety Services (CLSS) places connectivity at the heart of fire safety, providing real-time visibility to drive timely, accurate decision making. CLSS fully leverages the Gent Vigilon system with a focus on asset management, events and maintenance management, which transforms the way that fire systems are commissioned, monitored and maintained.

VIGILON SYSTEM WITH CLSS INTEGRATION

GATEWAY

CLSS

NODE

BUILDING 1

FIRE NETWORK

1

2

3

BUILDING 2

4

BUILDING 3

Manual Call Point

Repeat Panel

Self Test

S-Cubed Sounder VAD

Mains Powered Interface

Duct Smoke Sensor

Beam Receiver

Beam Transmitter

Self Test

Loop Powered Interface

CLSS MANAGEMENT FEATURES

CUSTOMER ACCOUNT

CUSTOMER SITES

CUSTOMER BUILDINGS

VISIBILITY & ASSET MANAGEMENT	EVENT MANAGEMENT	MAINTENANCE MANAGEMENT
MULTIPLE SITES & BUILDINGS	FIRE EVENTS	TESTING & VISUAL INSPECTIONS
HOW DOES EVERYTHING CONNECT?	FAULT & SUB-FAULT EVENTS	FALSE ALARM CORRECTIONS
DEVICE TYPES & LOCATION	DISABLEMENTS	NON-COMPLIANCE CORRECTIVE ACTIONS
BUILDING CHANGES	FALSE ACTIVATIONS	C&E TESTING
DEVICE AGE BUDGETING	LOGBOOK	REVIEW LOGBOOK EVENTS
ASSET TAGGING		AGEING DEVICE REPLACEMENT

S-QUAD MULTI-SENSOR DETECTION

> The patented technology in the LPCB approved S-Quad sensors for Vigilon minimises the risk of false alarms whilst increasing the integrity of the fire decision. Uniquely the S-Quad sensor range has a series of states that make it especially effective at significantly reducing unwanted alarms.
>
> A ground-breaker in fire sensing expertise, the LPCB approved S-Quad incorporates sensor, sounder, speech and EN54 visual alarm functionalities in one single housing.

DETECTS REAL FIRES QUICKLY

- The combined power of S-Quad and Vigilon provides quick, intelligent fire decisions
- The ability to programme sensor states for different times of the day and night improves S-Quad's response to real fires and minimises false alarms
- S-Quad incorporates four separate sensing elements – heat, forward optical, backward optical and carbon monoxide that combine to detect real fires quickly

PUTS AN END TO FALSE ALARMS

- S-Quad's unique combination of sensing elements eliminates a higher number of false alarms
- S-Quad's patented dual optical sensor allows it to accurately distinguish between smoke and white dust or steam
- S-Quad is capable of switching between different sensor states to suit changes in the environment

COST EFFECTIVE TO INSTALL

- S-Quad incorporates sensor, sounder, speech and visual alarm functionalities all in one single loop powered device

- S-Quad is powered by the Vigilon loop so it requires just one pair of cables to provide its multi-sensor, sounder, speech and strobe functionalities
- S-Quad offers market leading loop capacity with 200 sensors, 125 sensor sounders or 100 sensor strobes
- S-Quad's VADs are all certified to EN54 part 23 with up to 100 devcies supported by the Vigilon loop

ENSURES PEACE OF MIND

The capability and function of the Vigilon with S-Quad ensures that the system complies to the requirements of:

- The Regulatory Reform (Fire Safety) Order 2005
- The Equality Act 2010
- The Building Regulations Approved Documents B & M
- The British Standard BS 5839-1

All S-Quad VAD signals, voice messages and sounders are fully synchronised across the system, as well as being synchronised with S-Cubed devices.

VIGILON BEAM DETECTION

Vigilon's Beam Sensors are connected to the same circuit as all the other devices. Unique in the industry, the Vigilon Beam Sensors are loop powered with their gain settings set at the control panel. Vigilon Beams do not require any additional power supplies or Interfaces, making them the most economical solution for Beam Detection.

VIGILON AUDIO VISUAL ALARMS

> Gent's patented S-Cubed Sounder and VAD devices are fully loop powered and do not require any separate sounder circuits.

S-CUBED RANGE FOR VIGILON

The S-Cubed range of Alarm Sounders incorporates sound speech and visual alarm effects all in one range of alarm devices.

The S-Cubed range offers a choice of two body colours, red or white, in housings and an EP range up to IP65.

The Integrated Visual Alarm makes S-Cubed ideal to meet all requirements of the BS5839-1 as well as the Equality Act 2010, which requires all persons regardless of any disability to be made aware of a fire or an emergency in any public building. Industry leading technology means that up to 100 Sounder VADs can be installed on each Vigilon Loop.

As an aid to commissioning, there is the option to use the HandiLink Infrared remote control to adjust the volume at the device itself without the need to be at the panel. This means that physical access is not required to make this adjustment. The integrity of the system is maintained by requiring the system to be in test mode avoiding the risk of unauthorised changes.

HandiLink Infrared remote control to adjust the volume remotely

VIGILON INTERFACES

Our comprehensive range of Interfaces to solve all your interfacing requirements, which are demanded by today's systems. A keyswitch version can used for manual plant control.

The new, comprehensive range of Vigilon Interfaces have a neat compact design casing to give maximum installation flexibility. The range includes low voltage and mains switching variants to meet all application needs. All variants can be installed as either DIN rail mounted or housed in a Vigilon style enclosure. All Interfaces are compliant with EN 54 part 18.

LOOP POWERED 4 CHANNEL INTERFACE

The loop powered 4 channel Interface range has individually sectored outputs where channel 1 can be set as a loop powered zone module.

- Each channel can be configured as an input or output independent of each other and in accordance with the fire plan

- All Interface devices can be housed in their own neat enclosures, DIN rail mounted or housed in a Vigilon style box

- Interfaces with output channels do not require additional relays – the panel monitors cable faults and can raise an alarm if a fault occurs

- All Interfaces are seen by the panel as one address although each input/ output can have a separate label displayed at the panel

Loop powered 4 channel Interface

Loop powered key switch operated Interface

Mains powered Interface

MAINS POWERED INTERFACE

The Vigilon Mains Powered Interface allows you to connect to ancillary units which can not be integrated directly onto the Vigilon loop.

- 4 Channels Input or Output

- 24V dc Supply

- 24 hour battery standby

- Fully compliant with BS7273-4

LOOP POWERED SINGLE CHANNEL INTERFACE

The Vigilon System can accomodate a high number of single channel Interfaces on the loop, exceeding typical site requirements.

- VA high capacity of single channel Interfaces is available on the loop

- Versions are available to provide inputs and outputs to and from the system

- Basic building control can be achieved through inputs from other life safety systems such as sprinklers and conventional fire systems

- Non fire inputs can prove current status of systems and fault signals can be made known through alarm outputs

- Key-operated variant for secure management of the system

LOOP POWERED MAINS SWITCHING INTERFACE

- The mains switching Interfaces can switch up a resistive load of up to 16amps at 240V AC

- 4 and single channel variants with combined inputs and outputs make these Interfaces ideal for connecting to a control plant

VIGILON MANUAL CALL POINT

The Vigilon Manual Call Point is available as a break glass variant or it can be supplied with a resettable element – ideal where glass could prove to be a safety hazard.

- The Manual Call Point is available with a resettable element especially useful in schools, colleges and public areas where the incidence of rogue activation may be higher than normal

- Surface or flush mounted variants are available

- Flushes with standard installation back box

- An anti-vandal protective cover is available

- The glass fronted variant has a simple glass replacement process

- An LED gives confirmation of operation

- The Manual Call Point is EN 54 part II compliant

- The Manual Call Point can be supplied as an IP55 rated unit
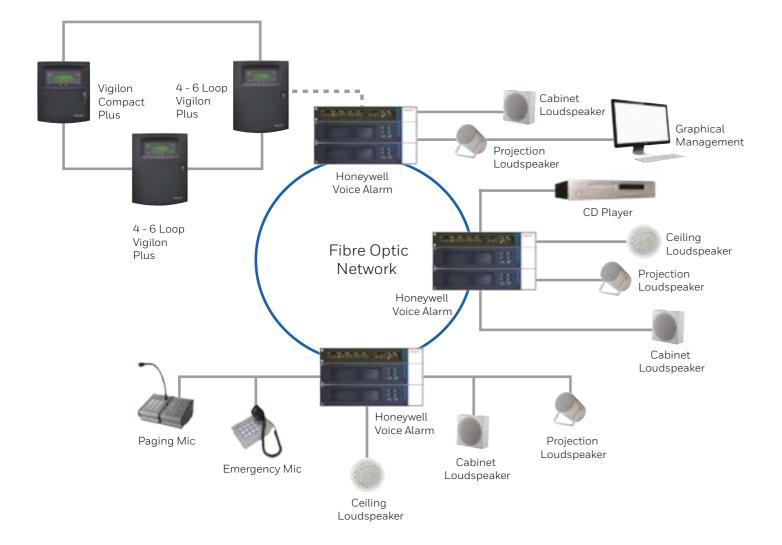

Loop Powered Mains Switching Interface

Vigilon Manual Call Point

VIGILON'S PERIPHERAL SYSTEMS

Honeywell Gent now offers a flexible range of Voice Alarm and Public Address systems as well as life safety products to complement the Vigilon System.

Vigilon Compact Plus

4 - 6 Loop Vigilon Plus

4 - 6 Loop Vigilon Plus

Fibre Optic Network

Honeywell Voice Alarm

Honeywell Voice Alarm

Honeywell Voice Alarm

Cabinet Loudspeaker

Projection Loudspeaker

Graphical Management

CD Player

Ceiling Loudspeaker

Projection Loudspeaker

Cabinet Loudspeaker

Paging Mic

Emergency Mic

Ceiling Loudspeaker

Cabinet Loudspeaker

Projection Loudspeaker

AIR SAMPLING DETECTION

Air Sampling Detection, also known as Aspirating Smoke Detection (ASD) systems can detect fires at a very early stage, often before visible smouldering takes place, before an open fire occurs and before intense smoke develops.

This early detection is vital to mission critical and high-risk applications. The earliest possible fire detection brings significant time benefits, enabling a fast response to the first signs of smoke. ASD can detect fires significantly faster than point or beam smoke detectors.

Vigilon ASD Interface integrates the Honeywell FAAST FLEX ASD with combined power supply and loop Interface.

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

PAGING

The Response Paging System offers the latest innovations in wireless paging and monitoring. It's a cost effective and flexible paging system that offers the ability to quickly respond to activated alarms.

The solution consists of a wall mounted transmitter and antennae that can send customised messages to designated pagers and are powerful enough to cover large areas.

DISABLED REFUGE

An EVCS (Emergency Voice Communication System) or Disabled Refuge System is designed for use in buildings that contain refuge areas.

This type of intercom system allows emergency services to be in constant contact with the people in the refuge areas who seek assistance. The Equality Act (formerly The Disability Discrimination Act) made it the responsibility of all companies, nationwide, to ensure that access to buildings and services is available to everyone - there must be no discrimination.

Air Sampling Detection

VESDA-E VEP

Paging

Disabled Refuge

THE VIGILON SYSTEM

Honeywell Gent is synonymous with quality and innovation in the fire detection and alarm industry. Gent technology meets rigorous British and European standards for all projects ranging from small installations to complex, multi-site networks.

Honeywell
GENT