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Section 6.1:

Vigilon Compact Analogue Addressable Fire Detection & Alarm System



6.1 : VIGILON COMPACT

10 reasons to specify Vigilon Compact

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1 Compact size The introduction of innovative design features into this panel means that the wall space needed to mount the panel is now 60% smaller than a standard Vigilon installation.

2 The power of Vigilon Supports the largest number of fire detection and alarm products on the same 2 cables with soft or SAFE (Soft Addressed Firmware Encoded) addressing options.

3 Minimise false alarms The combined power of S-Quad and the Vigilon Compact panel provides quick, intelligent decision making. The S-Quad dual angle optical sensor recognises a clear distinction between smoke and steam.

4 Rapid fire detection The 4 separate sensing elements in the S-Quad, including CO, can be set with individual sensitivity levels and sensor 'states' can be programmed for different time periods to suit all applications and environments.

5 Cost savings Cable runs are shorter. 2 core costs less than 4 core. Overall cable costs are normally 30% less than other systems.

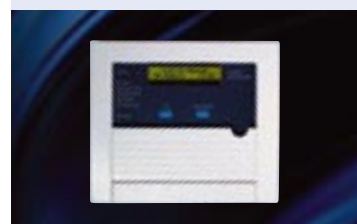
6 Customise your fire plans Evacuating public areas or production lines is disruptive and costly. Vigilon Compact's powerful software gives you flexibility. Areas throughout the building can be sectorised to give an evacuate or alert signal on alarm, or can be configured with pre-set delays.

7 Safe evacuation Voice messaging capability through the sounder functionality of S-Quad ensures quick and safe evacuation in the event of a fire.

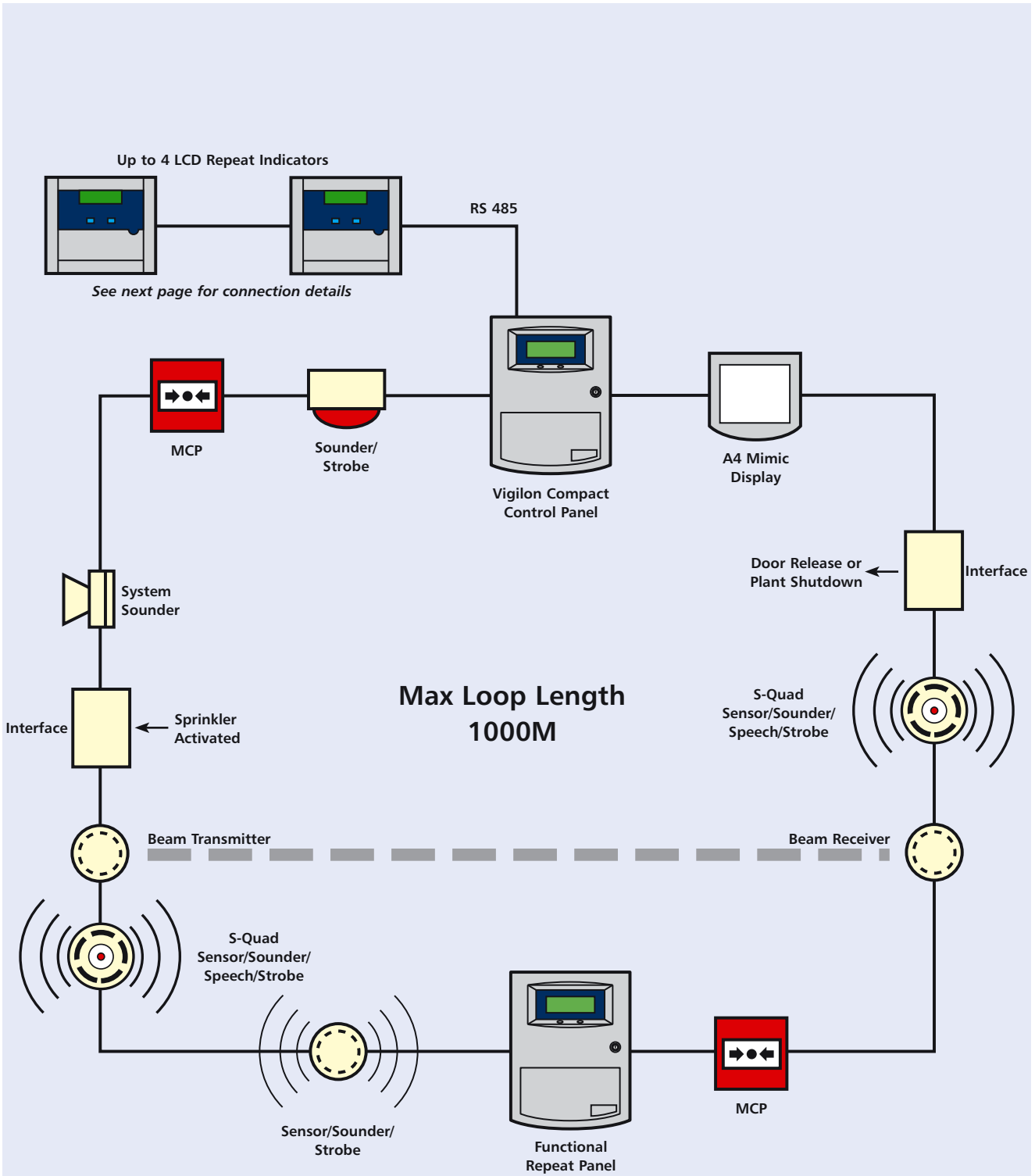
8 Loop powered sounder/strobe Loop powered sounder/strobes save on cabling and interface costs whilst ensuring compliance with the Disability Discrimination Act 1995. Built-in high intensity flashing strobes warn those with hearing difficulties of a potential fire hazard – **now a legal requirement in all public buildings.**

9 Clear information An 8-line by 40 character display means the user is not limited in describing the position or nature of an emergency. A clear backlit LCD display reduces confusion and speeds response.

10 Compliance with the relevant industry standards GENT are LPCB approved for both systems and products and Vigilon Compact complies with BS/EN standards.



System Architecture



Note: Speech and standard tone sounders can both be used on a system to meet site requirements, but should not be mixed within an alarm zone.

6.1: VIGILON COMPACT

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Vigilon Compact System

Vigilon Compact analogue addressable 1-2 loop panels offer small to medium sized building owners the unique system functionality of Vigilon with the very best in control panel aesthetics – stainless steel door options are available to provide a discreet and luxurious feel in upmarket office environments.

The introduction of innovative design features into this panel means that the wall space needed to mount the panel is now 60% smaller than a standard Vigilon installation.

Vigilon Compact analogue addressable panels fully comply with EN54:Parts 2 & 4 and can be specified with 1 or 2 detection loops, each capable of accommodating up to 200 Vigilon devices including repeat panels, interfaces, manual call points and S-Quad sensor/sounder/strobes.

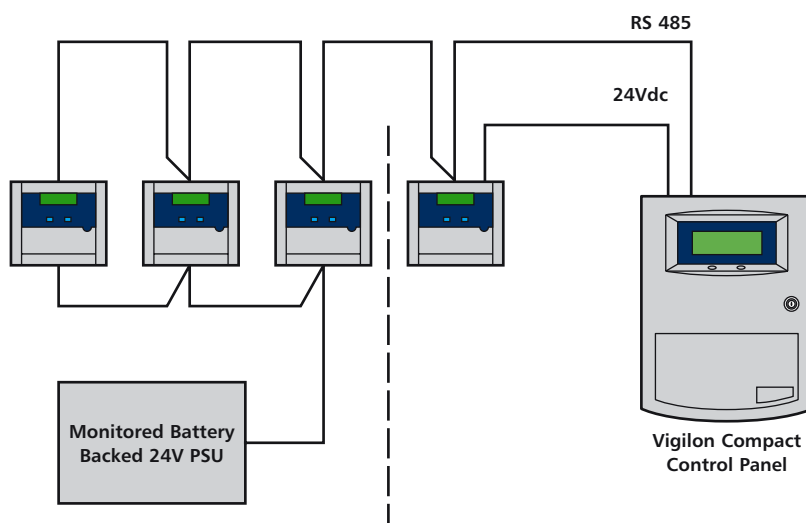
Gent's innovative new S-Quad is a combined multi-sensor range with speech, sounder and strobe in one intelligent unit.

Fully compatible with Gent's S-Cubed alarm devices (offering sound, speech or strobe effects in combination), Vigilon Compact also offers the familiar advantages of combined sensor-sounders and loop powered beam detection with integral short circuit isolators fitted into every loop device.

Additional features

- Vigilon's powerful software allows the fire alarm system to be configured to meet the fire alarm needs of the building.
- Combining the proven reliability of the Vigilon range of sensors and true analogue sensing keeps false alarms to a minimum.
- Alarm sound levels can be increased by simply replacing a sensor with a sensor/sounder, saving costly additional wiring.
- To meet the requirements of BS 5839-1: 2002 the Vigilon Compact is supplied with separate zonal indication, visible at access level 1. This comprises 32 fire LEDs (secret till lit) which enables 'at a glance' overview indication, without the need for manual intervention by fire fighters.

Wiring Details – LCD Repeat Panel (indication only) Max Cable Length 1000M



One LCD repeat panel can be powered from the control panel, additional repeat indicators must be powered from an additional power supply.

The communication link to the panel is monitored, so if power to the repeat indicators fails the fault will be reported at the control panel.

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6.1: VIGILON COMPACT

Control Panel

A one to two loop panel accommodating up to 200 devices per loop.

LCD display allows clear indication of fire or fault location.

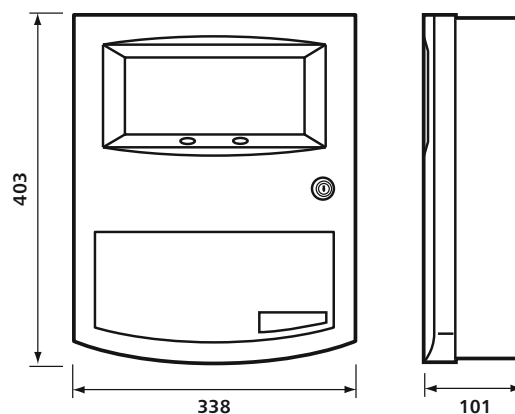
Site specific fire plans can be programmed to meet the evacuation needs of the building.



Vigilon Compact Control Panel

TECHNICAL SPECIFICATION	
Type	Control panel
Loop Capacity	200
Ingress Protection	IP31
Approx Weight	16.6 Kg (with batteries)
Operating Temperature	0°C to +45°C
Relevant Standards	EN54 Pt 2 & 4
Batteries	2 x 12V @ 12 Ah
Battery Standby	24 Hours + 30 minutes alarm
Supply Voltage	216V – 253V 50Hz
Power Consumption	140 W
Cable Entry	Top and rear knockins
Auxiliary Contacts	Programmable to activate on Fire, Fault or Disablement (1 x SPCO, 1 x DPCO)
Sounder Circuits	2 circuits @ 250mA each
Monitored input	1 input which is programmable to perform a logical action via a command build
Communication ports	2 x RS485, 1 x RS232 selectable functions
Approvals	LPCB Applied for

Dimensions (mm)



ORDER CODES

Control Panel	COMPACT-24
LCD Repeat panel	COMPACT-RPT
Flush fixing frame	COMPACT-FLUSH
Additional Loop card	COMPACT-LPC
Optical only sensor	COMPACT-O
Stainless Steel Options:	
Stainless steel door	VIG-RPT-DOOR-SS
Stainless steel flush frame	COMPACT-FLUSH-SS

6.1: VIGILON COMPACT

LCD Repeat Panel

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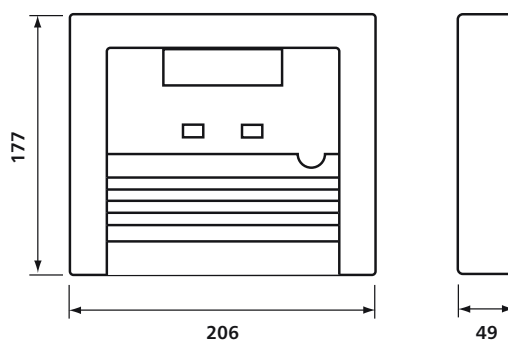
Vigilon Compact Repeat Panel

The LCD repeat panel indicates Fire, Fault and Disablement information on a 40 character display, either directly as events occur or by accessing the logs via dedicated keys.

A maximum of 4 Repeat Panels can be connected to a Vigilon Compact control panel.

TECHNICAL SPECIFICATION	
Type	LCD Repeat Panel (Indication Only)
Ingress Protection	IP30
Supply Voltage	21 – 30V dc
Power Consumption	Approx 30 mA
Approx Weight	0.75 Kg
Operating Temperature	0°C to +45°C
Communication ports	1x RS485 to communicate with the main control panel
Cable Entry	Top and rear knockins
Approvals	N/A

Dimensions (mm)



ORDER CODES

LCD Repeat panel

COMPACT-RPT

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Section 6.2:

Vigilon Analogue Addressable Fire Detection & Alarm System



6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

10 reasons to specify Vigilon

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1 The Power of Vigilon Supports the largest number of fire detection and alarm products on the same 2 cables with soft or SAFE (Soft Addressed Firmware Encoded) addressing options.

2 Minimise False Alarms The combined power of S-Quad and the Vigilon panel provides quick, intelligible decision making. The S-Quad dual angle optical sensor recognises a clear distinction between smoke and steam.

3 Rapid Fire Detection The 4 separate sensing elements in the S-Quad, including CO, can be set with individual sensitivity levels and sensor 'states' can be programmed for different time periods to suit all applications and environments.

4 Cost Savings Cable runs are shorter. 2 core costs less than 4 core. Overall cable costs are normally 30% less than other systems.

5 Create Seamless Network Connect up to 200 panels together and retain control on large or complex sites. Also, new buildings or extensions are easily accommodated onto the existing system.

6 Customise your Fire Plans Evacuating public areas or production lines is disruptive and costly. Vigilon Compact's powerful software gives you flexibility. Areas throughout the building can be sectorised to give an evacuate or alert signal on alarm, or can be configured with pre-set delays.

7 Safe Evacuation Voice messaging capability through the sounder functionality of S-Quad ensures quick and safe evacuation in the event of a fire.

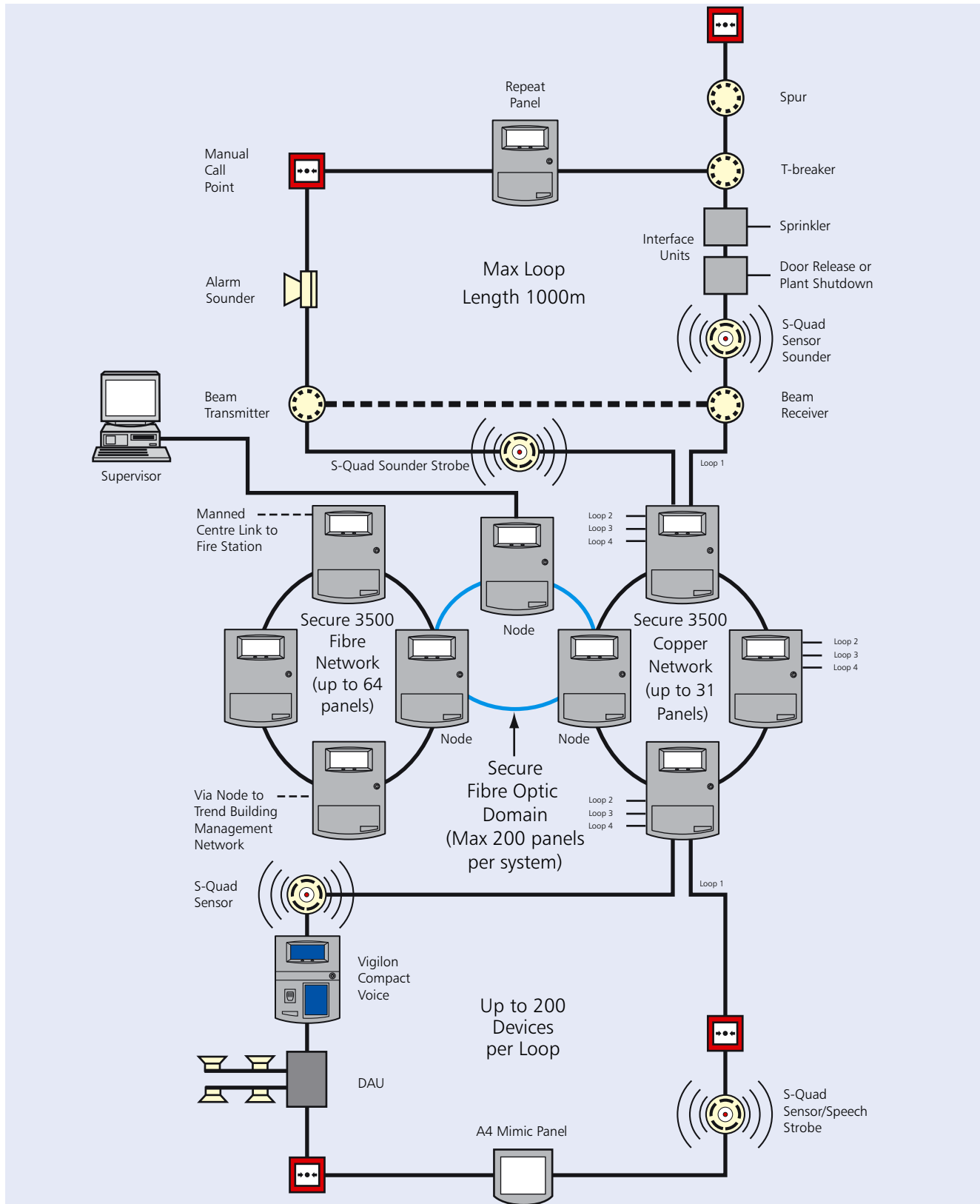
8 Loop powered sounder/strobe Loop powered sounder/strobes save on cabling and interface costs whilst ensuring compliance with the Disability Discrimination Act 1995. Built-in high intensity flashing strobes warn those with hearing difficulties of a potential fire hazard – **now a legal requirement in all public buildings.**

9 Clear Information An 8-line by 40 character display means the user is not limited in describing the position or nature of an emergency. A clear backlit LCD display reduces confusion and speeds response.

10 Integrated Voice and Graphics Systems Vigilon may be integrated with Gent's Vigilon Voice evacuation system, or connected to Supervisor, a graphic display for single point control and monitoring.



6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM
System Architecture



Vigilon architecture is extremely flexible, from single loop panels up to 200 panels in a system.

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

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Vigilon System Overview

The feature-packed Vigilon analogue addressable fire detection and alarm system from Gent offers medium to large sized building owners the latest in system flexibility and control panel aesthetics.

Vigilon offers a degree of system sophistication that has not previously been available and incorporates a host of features designed to make it the simplest system to install, configure and use.

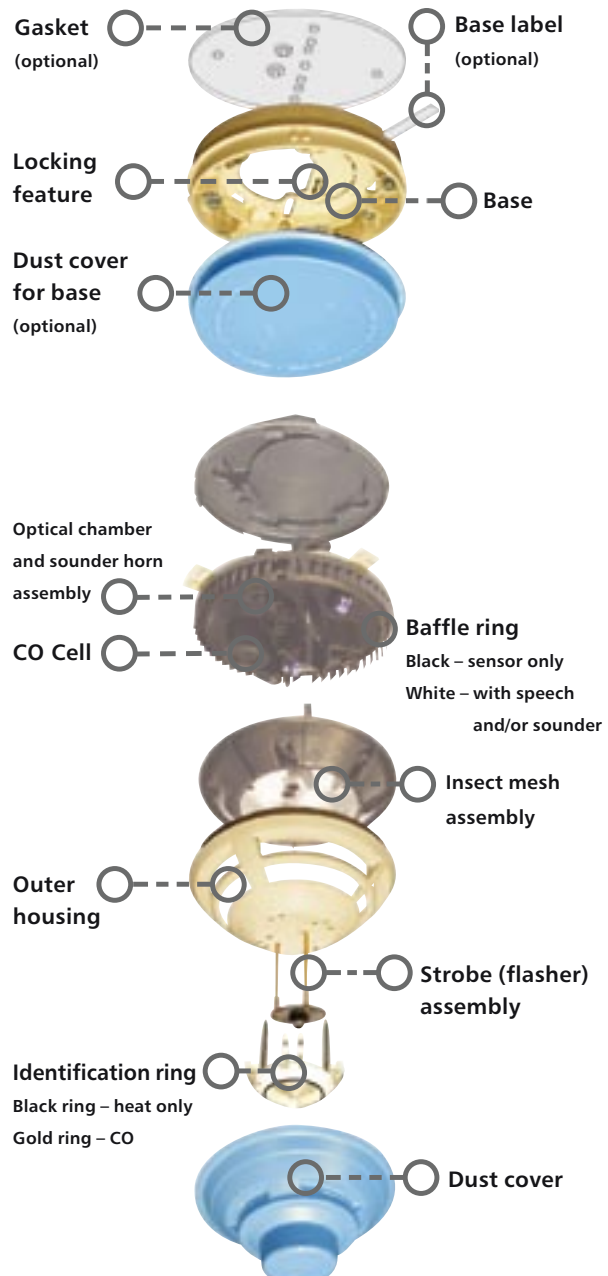
As well as providing the user with clear comprehensive information in the event of a fire, Vigilon additionally provides an entire historic log of the system's management information. Should a system fault occur a detailed explanation is shown and the user can at any time navigate through the faults history.

S-Quad Extra Sensory Detection

Gent's new S-Quad sensor range for Vigilon is the UK's most innovative solution to the detection and signalling of fires. Patented dual angle optical scatter smoke detection improves both the speed and integrity of fire detection. This advanced sensing technology is coupled with an integral sounder with speech capability and strobe in the same intelligent device, making S-Quad a truly unique fire detection and alarm sensor.

The S-Quad sensors inherit all the advantages of Vigilon's 34000 range combined with extra features, making Vigilon and S-Quad an industry leading combination for fire detection and alarm signalling.

S-Quad features



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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Vigilon Control Panel

Vigilon 1-4 loop control panels can accommodate up to 200 devices on each loop.

Vigilon's backlit 8-line by 40 character display presents clear indication of fire or fault locations. To meet the requirements of BS 5839-1: 2002 the panel also has separate zonal indication, this comprises 32 fire LED's which enable 'at a glance' overview indication, without the need for manual intervention by fire fighters.

Fire plans can be tailored to precisely meet site requirements.

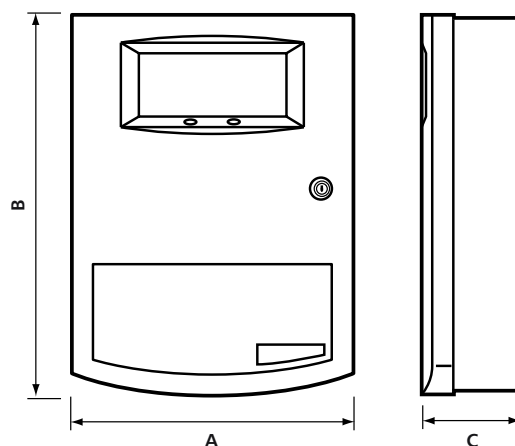


Vigilon Control Panel

TECHNICAL SPECIFICATION	
Type	Control panel
Max No of Loops	4
Loop Capacity	200
Batteries	4 x 12V @ 12Ah
Battery Standby	24 hours standby + 30 minutes alarm upgradeable to 72 hours standby + 30 minutes alarm
Approx Weight	16.5 Kg
Operating Temperature	0°C to 45°C
Relevant Standard	EN 54 Parts 2 & 4
Cable Entry	Top and rear knockins
Approvals	LPCB approval to EN 54 Parts 2 & 4

	A	B	C
Control Panel	408	539	151
Battery Box	382	309	112

Dimensions (mm)



ORDER CODES

EN 54 Control Panels

1 Loop	VIG1
2 Loop	VIG2
3 Loop	VIG3
4 Loop	VIG4
1 Loop, Networkable	VIG1-NET
2 Loop, Networkable	VIG2-NET
3 Loop, Networkable	VIG3-NET
4 Loop, Networkable	VIG4-NET

Note: Control panels require a first fix VIG-1ST-FIX.

For existing systems to BS 5839, compatible panels are still available for expansion. Contact Gent for details.

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Repeat Panel

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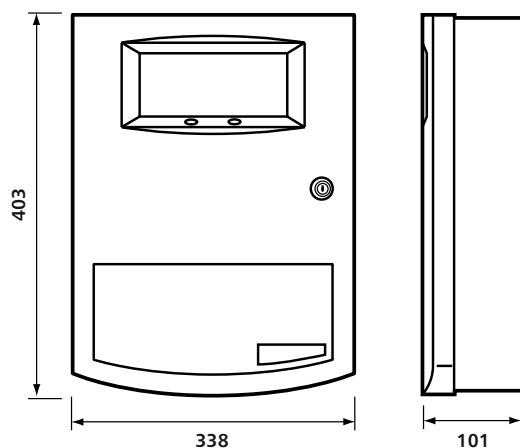
Vigilon Repeat Panel

A repeat panel repeats all information provided to the main control panel and provides mains control functions.

The repeat panel is connected directly to the loop but requires a mains supply to run its battery backed power supply.

TECHNICAL SPECIFICATION	
Type	Repeat panel
Max No per Loop	4
Loop Capacity	N/A
Batteries	12V @ 7Ah
Battery Standby	24 hours standby + 30 minutes alarm, upgradeable to 72 hours standby + 30 minutes alarm
Approx Weight	9 Kg
Operating Temperature	0°C to 45°C
Relevant Standard	EN54
Cable Entry	Top and rear knockins

Dimensions (mm)



ORDER CODES

Repeat Panel VIG-RPT

NOTE: Repeat panels require a first fix VIG-RPT-1ST-FIX

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Mimic Panels

The A2 and A4 Mimic Panels provide a pictorial representation of the building's layout allowing rapid indication of fire location. The mimic panels have a selection of programmable LED's onto which a CAD drawing of the site is overlaid.

Alternatively a zonal overlay kit may be used.

Overlays are easily updated if site details alter.



A2 Mimic

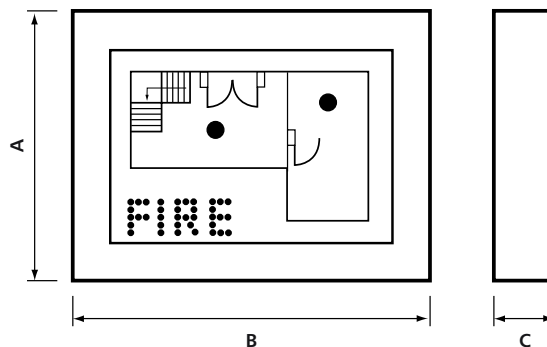
TECHNICAL SPECIFICATION		
Type	A2 Mimic	A4 Mimic
Max Quantity per Loop	4	4
Batteries	12V @ 7Ah	12V @ 7Ah
Battery Standby	24 hours + 30 minutes alarm upgradeable to 72 hours	
Approx Weight	20 Kg	Display 2.3 Kg, Control panel 10.4 Kg
Operating Temperature	0°C to 45°C	
Relevant Standard	BS 5839: Part 4 + EN54: Part 2 & 4	
Cable Entry	Top conduit knockins	Rear
Load Factor	3	3



A4 Mimic Display

	A	B	C
A2 Mimic	650	830	90
A4 Mimic Display	276	330	73

Dimensions (mm)



ORDER CODES

A4 Mimic Panel	VIG-MIM-A4
A4 Zonal Mimic	VIG-ZONE-A4
A2 Mimic Panel	VIG-MIM
A2 Zonal Mimic	VIG-ZONE

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

S-Quad Sensors

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S-Quad

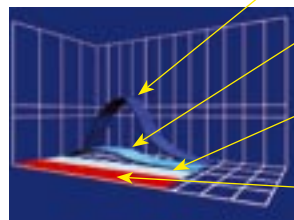
Why a Dual Optical Heat CO Multi-sensor?

Combining the CO technology into the O₂H sensor radically reduces false alarms and allows fast detection of fires.

Many combinations of the different sensors are used in the multi-sensor to enable fast and above all, reliable fire detection.

O₂HCO Performance Examples

Steam



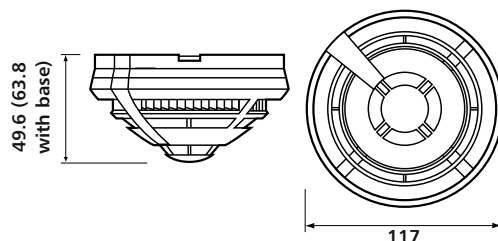
Forward Scatter
• High Signal
= Alarm

Backwards Scatter
• Low Signal
= No Alarm

Heat & CO
• No Signal
= No Alarm

Result
No Alarm

Dimensions (mm)



TECHNICAL SPECIFICATION			
Type	Heat	Dual Optical Heat	Dual Optical Heat CO
Device Load Factor	1	1	1
Ingress Protection	IP30		
Approx Weight	0.11 Kg (0.17 Kg with base)		
Operating Temperature	-10°C to +50°C		
Relevant Standards	EN54-5	EN54-7	EN54-7 (+ draft OHCO standard)
Approvals	LPCB pending		

A new concept in fire detection – a truly intelligent analogue sensor combining exceptional computing power in the sensor as well as the panel to achieve an extremely fast response to a real fire whilst minimising the risk of false alarms.

- The multi-sensor combines heat (H), carbon monoxide (CO), optical forward scatter (OFS) and optical backward scatter (OBS)
- The patented dual angle optical scatter technology allows identification of the particle source filtering potential false alarms due to steam and dust
- The gas sensing element (CO) within the chamber monitors the concentration of carbon monoxide, a product of incomplete combustion in some fire types, and potentially life threatening. The CO sensor allows rapid fire detection, with smouldering fires, in areas where smoke detectors could register false alarms
- Combined CO gas sensing with dual angle optical and heat allows a higher level of false alarm immunity whilst still improving the detection speed of certain types of fire
- Each sensor element has sensitivity settings which can be adjusted to suit the environment / application and can be programmed for different time periods during the day or night
- Repeat fire LED output as standard (if monitored input not used)
- Operational LED blink 'On/Off' option
- Monitored Input - which can be Fire, Fault or Supervisory

ORDER CODES

Sensor Base	S4-700
Heat Sensor	S4-720
Dual Optical Heat Sensor	S4-711
Dual Optical Heat Sensor CO	S4-911

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

S-Quad Sensor Sounder

Combined sensor sounder technology provides a cost effective solution for alarm signaling saving on installation costs as there is no need for additional power supplies. Synchronised messages are transmitted through the same sensor that detects the fire.

- Attention tones can be programmed either as a bell (on speech variants) or a choice of 12 standard tones
- 'Soft' start option
- Uniform sound distribution
- Low current consumption
- Fully synchronised sound patterns via the control panel
- Selectable speech messages available to suit most requirements –switched on/off by the Vigilon control panel
- Rich harmonic sound output using patented technique
- Options for sound output:
 - Standard mode = 90 dB(A) @1m (typical)
 - Up to 98 dB(A) possible if required (turbo mode)



Effectiveness of Sensors to detect test fires

Analogue sensors during standard test fires	Detector types and multi-sensor options						
	H	I	O	CO	OH	O ² H	O ² HCO
TF1 Open wood fire	Good	Acceptable	Poor	Poor	Good	Good	Good
TF2 Smouldering wood fire	No response	Poor	Good	Acceptable	Good	Good	Good
TF3 Smouldering cotton fire	No response	Acceptable	Good	Good	Good	Good	Good
TF4 Open plastics (PU) fire	Poor	Acceptable	Acceptable	Poor	Acceptable	Good	Good
TF5 Liquid fire (n-heptane)	Good	Good	Poor	No response	Good	Good	Good
TF6 Liquid fire (spirit)	Good	Good	No response	No response	Good	Good	Good

■ No response
 ■ Poor response
 ■ Acceptable response
 ■ Good response
 ■ Very good response

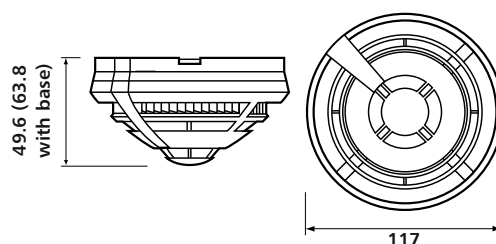
TECHNICAL SPECIFICATION

Type	Heat Sensor Sounder	Dual Optical Heat Sensor Sounder
Device Load Factor*	8-16**	8-16**
Ingress Protection	IP30	
Approx Weight	0.11Kg (0.17Kg with base)	
Operating Temperature	-10°C to +50°C	
Relevant Standards	EN54-3&5	EN54-3&7
Sound Output at 1m	Typically 90 dB(A)	
Approvals	LPCB pending	

* Load factors for guide purposes only.

** Higher value for 'turbo' mode or bell.

Dimensions (mm)



ORDER CODES

Sensor Base	S4-700
Heat Sensor Sounder	S4-780
Dual Optical Heat Sensor Sounder	S4-771

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

S-Quad Strobe and Speech

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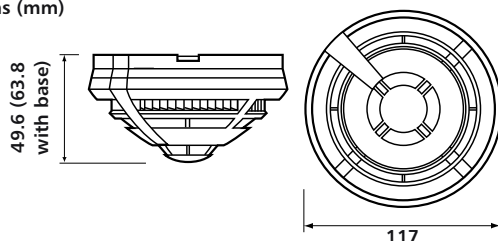
Another 'first' – a voice chip capable of delivering synchronised messages throughout the building via the sensor.

- Programmable voice messaging ensures quicker and safer evacuation in the event of a fire or an emergency
- Complements the S-Cubed sounder with messages and complex sound signals such as the bell tone
- 'Soft-start' and programmable volumes
- Programmable message period 10-20 seconds
- Programmable silences and tones
- Low current consumption

TECHNICAL SPECIFICATION			
Type	Dual Optical Heat Sensor Strobe	Dual Optical Heat Sensor Speech Strobe	Dual Optical Heat Sensor CO Speech Strobe
Device Load Factor*	10	18-26**	18-26**
Ingress Protection	IP30		
Approx Weight	0.11Kg (0.17Kg with base)		
Operating Temperature	-10°C to +50°C		
Relevant Standards	EN54-7 EN54-23(draft)	EN54-7 EN54-23(draft) EN54-3: prA2(draft)	EN54-7(ISO/DIS 7240-15)(+draft OHCO standard) EN54-23 (draft) EN54-3: prA2 (draft)
Sound Output at 1m	N/A	Typically 90 dB(A)	
Approvals	LPCB pending		

* Load factors for guide purposes only.
**Higher value for 'turbo' mode or bell

Dimensions (mm)



Voice Messages

- 1 Alert Message (female voice)
"An incident has been reported in the building, please await further instructions."
- 2 Alarm Message 1 (female voice)
"Attention please, this is an emergency. Please leave the building by the nearest available exit."
- 3 Alarm Message 2 (male voice)
"This is a fire alarm! Please leave the building immediately by the nearest available exit."
- 4 Test Message (female voice)
"This is a test message, no action is required."

A strobe option warns those with hearing difficulties of a potential fire hazard, now a legal requirement in all public buildings through DDA Legislation.

- Built-in high intensity flashing strobe helps alert occupants in noisy environments as well as the hearing impaired
- Complies with the latest requirements of the DDA (Disability Discrimination Act 1995)
- Compatible with S-Cubed wall mounted strobe
- Low power consumption and high output LED technology ensures strobes are cost efficient and more reliable in use than other high powered strobes
- Wide viewing angle
- Synchronised across the loop
- Strobe can operate independently of the sounder if required
- Strobe LED – flashes at different rate to Red indicating LED

Visual Indicators

- Red LED – indicates Fire as well as reassures device is operating correctly
- Blue LED – indicates CO present
- Gold ring to indicate CO version
- Black ring indicates Heat detector only version



ORDER CODES

Sensor Base	S4-700
Dual Optical Heat Sensor Strobe	S4-711-ST
Dual Optical Heat Sensor Speech Strobe	S4-711-ST-VO
Dual Optical Heat Sensor CO Speech Strobe	S4-911-ST-VO

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

S-Cubed Alarm Devices

- Very low power consumption means more sounders per loop e.g. 200 system sounders per loop compared to 40
- The strobe option is equivalent to a standard 3w xenon strobe and uses 1/20th of the power
- The strobe element of the sounders is fully monitored for circuit failures
- The sounder tones are programmed in exactly the same way as the existing Vigilon sounders
- Loop powered voice enhanced sounders are available in the range
- 4 voice phrases and a bell sound are available as standard
- By using the bell sound in the voice sounder it is possible to have a loop powered bell
- The sound producing element in the voice sounders is monitored every hour using a VLF tone
- Voice and Tone mode can be freely mixed within the same sounder
- All messages and strobe signals are synchronised across loops in the same control panel
- Complements the S-Quad sensor with voice messages and complex sound signals
- A backwards compatible version of the system sounder is available for replacement or expansion to existing systems, avoiding the need to upgrade panel software
- The HandiLink remote control makes it much easier to adjust the sounders in situ
- Products incorporate innovative design features for which multiple patents are pending
- High intensity flashing strobe conforms to the Disability Discrimination Act (DDA) 1995 legislation



The S-Cubed range of alarm sounders incorporate sound speech and strobe effects all in one range of alarm devices. The range offers all variants in the choice of 2 colours red or white with either a shallow base version sealed to IP31 or a deep base version sealed to IP55. All the low profile sounders have the option of an integral strobe which is completely loop powered.

With the introduction of voice enhanced sounders into the Vigilon range we now have the option of having an S-Cubed loop powered bell sound for the first time as well as standard speech messages.

As an aid to commissioning there is the option to use the HandiLink Infrared remote control to turn on individual sounders and adjust the volume remotely. This means physical access is not required to make this adjustment and is only active during the commissioning process. Password access at the control panel is required to enable this feature so it is not possible to make this adjustment accidentally or maliciously.

TECHNICAL SPECIFICATION – 1.0 TONE AND VOICE SOUNDERS

Type	System Sounder			Low Profile		
	Standard Tone	Voice Enhanced	Inc Bell Sound	Standard Tone	Voice Enhanced	Inc Bell Sound
Max Quantity per Loop	200	200	70	200	200	70
Device Load Factor	5	5	13	5	5	13
Ingress Protection	IP55C with Deep Base			IP31C with Shallow Base		
Approx Weight	0.3Kg					
Operating Temperature	-10°C to +50°C					
Relevant Standards (Sounder only)	EN54-3					
Sound Output at 1m	103 dB(A) ± 2dB(A)			100 dB(A) ± 2dB(A)		
IR Control Operating Distance	3m					
Approvals	LPCB Applied for					

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

S-Cubed Alarm Devices

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With the remote control individual sounders can be turned on and the sounder volume adjusted remotely from up to 3m away. To maintain system security this feature is password protected at the control panel.

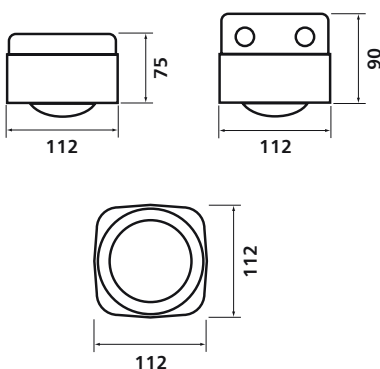
TECHNICAL SPECIFICATION – 1.1 TONE AND VOICE SOUNDERS WITH STROBE

Type	Sounder/Strobe Strobe Colour		Voice Enhanced Sounder/Strobe Strobe Colour			Strobe Only Strobe Colour	
	Red or Amber	White	Red or Amber	Red or Amber Inc Bell Tone	White with & without bell tone	Red or Amber	White
Max Quantity per Loop	60	30	60	40	30	100	40
Device Load Factor	15	28	15	23	33	10	23
Ingress Protection	IP55C with Deep Base		IP31C with Shallow Base				
Approx Weight	0.3Kg						
Operating Temperature	-10°C to +50°C						
Relevant Standards (Sounder only)	EN54-3						
Sound Output at 1m	100 dB(A) ± 2 dB(A)						
Strobe Light Output	Equivalent to a 3w Xenon						
Strobe Flash Rate	Signal 1 0.5Hz Signal 2 & 3 1.0Hz						
IR Control Operating Distance	3m						
Approvals	LPCB approved to EN54-3						

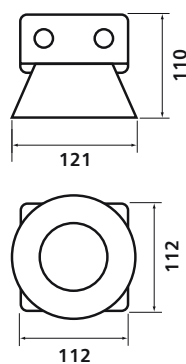
- When using the bell sound with voice enhanced sounders refer to the "Inc Bell Tone" column for the loop loading data.
- To use the new range of Sounders the panel software (main & repeat) may need to be upgraded.

Dimensions (mm)

Low profile sounder



System sounder



Standard Voice Messages

- Alert Message (female voice)
"An incident has been reported in the building, please await further instructions."
- Alarm Message 1 (female voice)
"Attention please, this is an emergency. Please leave the building by the nearest available exit."
- Alarm Message 2 (male voice)
"This is a fire alarm! Please leave the building immediately by the nearest available exit."
- Test Message (female voice)
"This is a test message, no action is required."

ORDER CODES

IP65 System Sounders

Sounder Red	S2IP-SN-R
Sounder White	S2IP-SN-W
Backwards compatible Sounder White	S2IP-SN-W3
Backwards compatible Sounder Red	S2IP-SN-R3
Voice Sounder Red	S2IP-VO-R
Voice Sounder White	S2IP-VO-W

IP31 Low Profile Sounders

Sounder/Strobe Red	S3-SN-ST-RR
Sounder/Strobe White	S3-SN-ST-WR
Sounder Red	S3-SN-R
Sounder White	S3-SN-W
Voice Sounder/Strobe Red	S3-VO-ST-RR
Voice Sounder/Strobe White	S3-VO-ST-WR
Voice Sounder Red	S3-VO-R
Voice Sounder White	S3-VO-W

IP65 Low Profile Sounders

Sounder/Strobe Red	S3IP-SN-ST-RR
Sounder/Strobe White	S3IP-SN-ST-WR
Sounder/Strobe Red body White lens	S3IP-SN-ST-RW
Sounder/Strobe White body Amber lens	S3IP-SN-ST-WA
Sounder Red	S3IP-SN-R
Sounder White	S3IP-SN-W
Voice Sounder/Strobe Red	S3IP-VO-ST-RR
Voice Sounder/Strobe White	S3IP-VO-ST-WR
Voice Sounder Red	S3IP-VO-R
Voice Sounder White	S3IP-VO-W

IP65 Loop Powered Strobes

Strobe Red body/Red lens	S2IP-ST-RR
Strobe White body/Red lens	S2IP-ST-WR
Strobe White body/Amber lens	S2IP-ST-WA
Strobe Red body/White lens	S2IP-ST-RW

Remote Control

HandiLink IR Remote Control	S3-CONTROL
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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Sensors

Vigilon has a range of low profile addressable devices to suit different applications.

Heat Sensor – for steamy and dusty environments e.g. boiler rooms, kitchens and laundries.

Optical/Heat – detects smoke from a slow burning fire and/or heat from an intense fire producing little smoke.



Optical Heat Sensor

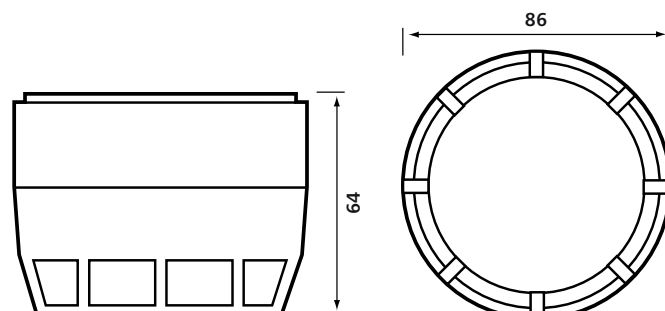
TECHNICAL SPECIFICATION		
Type	Heat	Optical/Heat
Max Quantity per Loop	200	200
Approx Weight	0.175 Kg / 0.58 Kg including terminal plate	
Ingress Protection	IP42	IP20
Relevant Standard	BS 5445: Parts 5 & 7	
Ambient Temperature	0°C to +45°C	0°C to +50°C (If only heat used 0° to +45°C)
Device Load Factor	1	
Approvals	LPCB	

Note: All Vigilon sensors require a terminal plate, 34700.

All sensors (except beam) are supplied with a dust cover to prevent contamination during installation.



Dimensions (mm)



ORDER CODES

Heat	34720
Optical/Heat	34710

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Sensor Sounders

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Optical/Heat Sounder

Repeat Sounder

Repeats adjacent sounder operations. Ideal for en-suite shower applications in hotels.

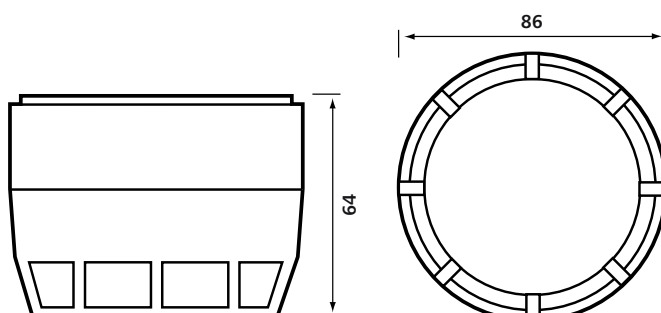
Optical Heat Sensor Sounder

Combines optical heat detection with an 85dB(A) sounder.

Heat Sensor Sounder

Combines heat detection with an 85dB(A) sounder.

TECHNICAL SPECIFICATION			
Type	Repeat Sounder	Optical Heat Sensor Sounder	Heat Sensor Sounder
Max Quantity per Loop		125	
Approx Weight		0.6Kg	
Operating Temperature		0°C to +50°C	
Ingress Protection	IP30	IP20	IP20
Relevant Standards		BS 5839: Part 1	
Sound Output at 1m		85dB(A)	
Device Load Factor		8	
Approvals	-	LPCB	LPCB

Dimensions (mm)**ORDER CODES**

Optical Heat Sensor Sounder	34770
Heat Sensor Sounder	34780
Repeat Sounder	34777

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Beam Sensors

Beam sensors are suitable for large open areas where installation of single point detectors may be difficult or uneconomical. These detectors come in pairs, one of which emits an infra-red beam, detected by the other unit. If the beam is broken by smoke, the sensor is triggered.

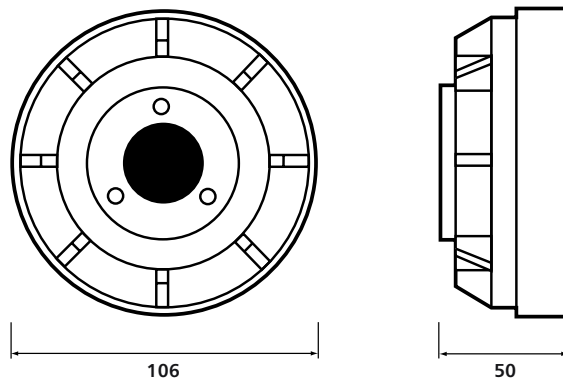
This model employs 'True' analogue detection techniques whereby other interruptions, caused by people or shadows, will be discounted.



Beam Sensor (Pair)

TECHNICAL SPECIFICATION	
Max. Quantity per Loop	16 pairs
Approx Weight	0.6Kg per pair
Ingress Protection	IP42
Operating Temperature	0°C to 50°C
Relevant Standards	BS 5839- 5
Beam Length	2 - 100m
Mounting Height	25 - 40m
Device Load Factor	2
Approvals	LPCB

Dimensions (mm)



ORDER CODES

Beam Sensor (Pair) 34740

Brackets required (2 per pair)

Angle bracket 34741-01

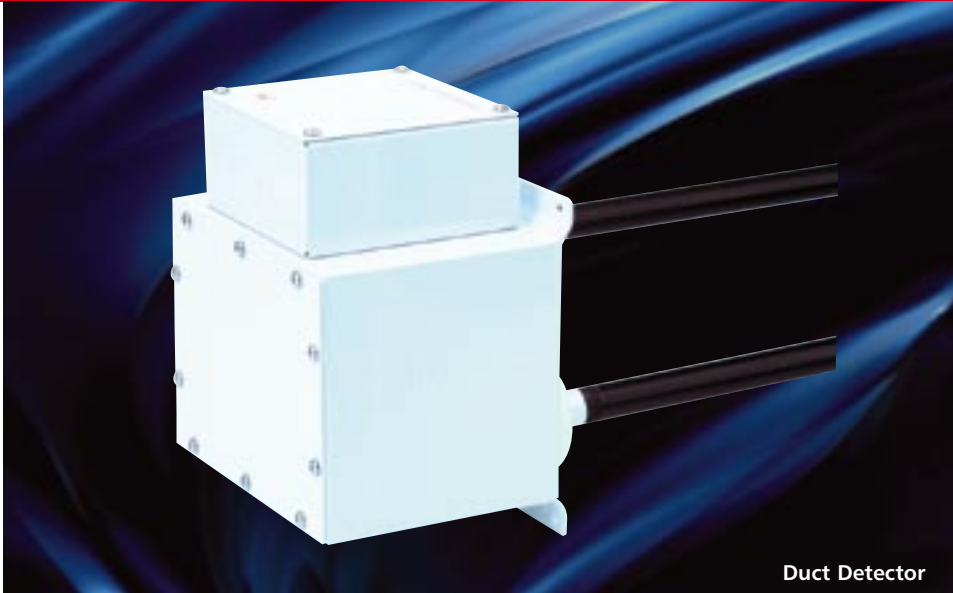
Angle bracket IP55 34741-90

Parallel bracket 34741-03

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Duct Smoke Sensors

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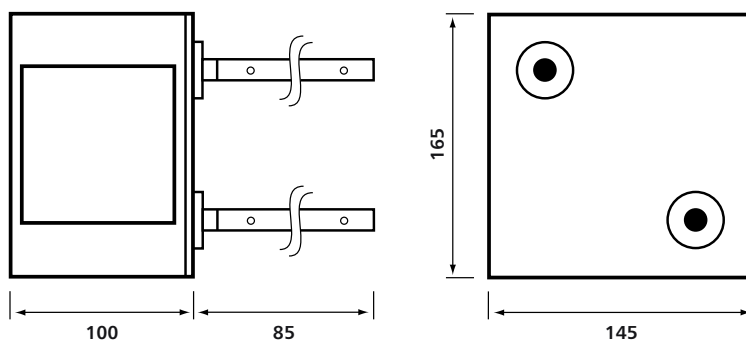
Duct Detector

An optical smoke sensor specifically designed for use in ventilation ducting. Two 20mm probes sample the air in the duct for smoke. Detector housing is mounted externally to the duct. This device can trigger the shut-down of an air-conditioning or ventilation plant to prevent the spread of smoke.

A slave LED is included with the device.

TECHNICAL SPECIFICATION	
Type	Duct smoke detector
Max Quantity per Loop	200 (50 if slave LEDs used)
Approx Weight	4.6 Kg
Operating Temperature	0°C to 50°C
Ingress Protection	IP55
Relevant Standard	N/A
Duct Air Velocity	1 to 10 m/sc
Device Load Factor	2 (1 for slave LEDs)

Dimensions (mm)



ORDER CODES

Duct Detector c/w slave LED

34760

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Manual Call Points

An addressable call point with a response time less than 1 second.

Versions available include:

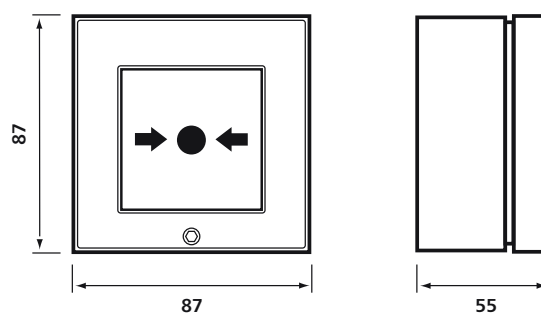
- IP55 rated
- Lift up covers
- Keyswitch



Call Point

TECHNICAL SPECIFICATION	
Max Quantity per Loop	200
Operating Temperature	0°C to 50°C
Ingress Protection	Standard IP40, Special IP55
Relevant Standard	EN54 Part 11
Approx Weight	0.77 Kg, (IP55 - 3.5 Kg)
Device Load Factor	1

Dimensions (mm)



ORDER CODES

Call Point	34800-EN
Key Switch Version	34807
Call Point with Cover	34842-EN
IP55 Call Point	34812-EN
IP55 Call Point with Cover	34852-EN
Flush Fixing Plate	19289-01
Pack of 10 Spare	14112-09EN

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Sensor Ancillaries

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T-Breaker

T - Breaker

Used to provide a spur from the addressable loop.

Remote LED

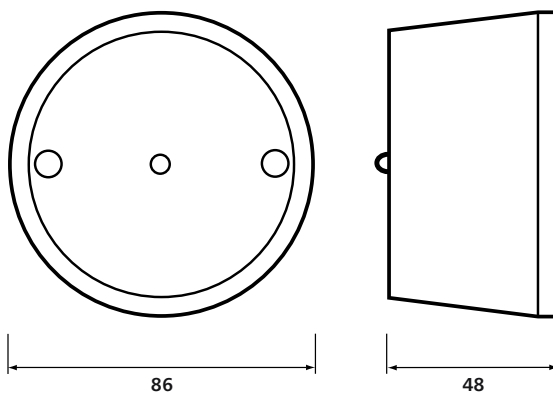
Located on the addressable loop, will mimic the LED of the device it is connected to.

Slave Relay

Located on the addressable loop, it will operate when the sensor it is connected to detects a fire condition.

TECHNICAL SPECIFICATION			
Type	T-Breaker	Remote LED	Slave Relay
Max Quantity per Loop	200	100	100
Approx Weight	0.35Kg	0.34Kg	0.36Kg
Operating Temperature	-10°C to +50°C		
Ingress Protection	IP40		
Device Load Factor	1		

Dimensions (mm)

**ORDER CODES**

T-Breaker	34701
Remote LED	13449-01
Slave Relay	34703

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6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Interfaces

Interfaces are used to link the fire alarm system to other plant management devices such as sprinklers and security systems. They can also be used to link to a zone of conventional detectors or non Gent manufactured devices.

Interfaces are either powered from the loop or require a separate mains supply. The mains power version has its own battery backup.



Mains & Loop Powered Interfaces

TECHNICAL SPECIFICATION				
Type	Mains	Loop	Zone Module	Single Channel
Max Quantity per Loop	8	30	100	100
Approx Weight	8.6 Kg	2.4 Kg	0.7 Kg	0.7 Kg
Operating Temperature	0°C to +45°C			
Ingress Protection	IP44	IP40	IP40	IP40
Voltage	230V ac	Loop powered	Loop powered	Loop powered
Device Load factor	3	2	10	10
No. Channels	4	4	1	1
Input Channels	Fire Fault MCP fire OEM detectors	Fire Fault Non-fire event	2 wire for conventional zone circuits	Fire Fault Non-fire event

Note: Loop powered interfaces require line modules for each single channel input or output.

Dimensions (mm)

	A	B	C
Mains	305	504	98
Loop	261	270	60
Zone Module	125	204	50
Single Channel	125	204	50

ORDER CODES

Mains Powered Interface	34440
Loop Powered Interface	34450
Loop Powered Zone Module	34410
Single Channel Interface	34415
Line Modules	19245-05

6.2: VIGILON FIRE DETECTION AND ALARM SYSTEM

Secure Networks and Domains

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A 'secure network' is used to interconnect a number of control panels and allows fire and other information to be passed between panels. It also allows an operator at one panel to control other control panels on the network. The secure network comprises a cable loop with isolation circuits at each panel. Networks are powered from the control panels and therefore will continue to operate in the case of a mains supply failure.

The Network can be controlled from a Vigilon Terminal Node. The terminal node is useful in applications where operators need to be able to monitor and control a fire alarm system of one or more control panels from a remote location. The terminal node provides global display and control facilities in a similar way to Vigilon, but for the entire network. A number of secure networks can be linked together via nodes, to form a secure fibre optic domain, giving a system size of up to 200 panels.

SPECIFICATION			
	3500 Copper Network	3500 Fibre Network	Fibre Domain
Max No. Panels/nodes	31 (but 15 recommended)	64	200
Max distance between Panels/Nodes	1Km	2Km	2Km

Overview of a Secure Domain

