

# GENT

by Honeywell

## 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.

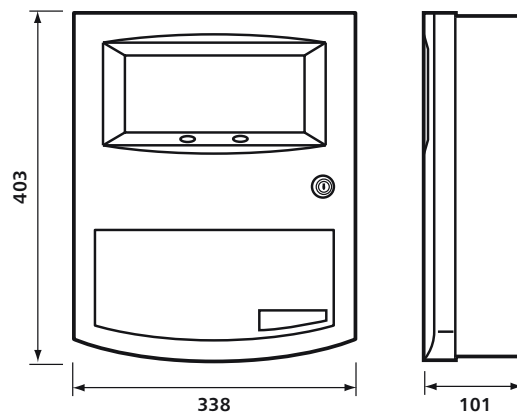


Vigilon Compact Control Panel

### 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: VIGILON LOOP DEVICES

## S-Quad Sensors

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S-Quad

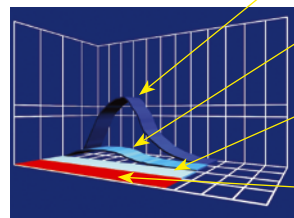
### Why a Dual Optical Heat CO Multi-sensor?

Combining the CO technology into the O<sub>2</sub>H 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.

### O<sub>2</sub>HCO Performance Examples

Steam



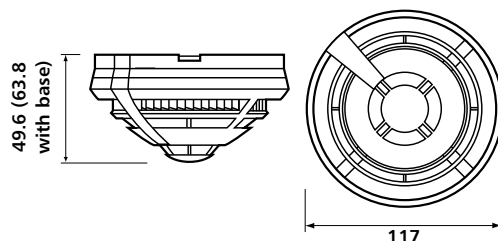
Forward Scatter  
• High Signal  
= Alarm

Backwards Scatter  
• Low Signal  
= No Alarm

Heat & CO  
• No Signal  
= No Alarm

Result  
No Alarm

### Dimensions (mm)



TECHNICAL SPECIFICATION					
Type	Optical	Optical Heat	Heat	Dual Optical Heat	Dual Optical Heat CO
Device Load Factor	1	1	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	EN54-7	EN54-7 +5	EN54-5	EN54-7 +5	EN54-7 +5
Approvals	LPCB pending			LBCB	

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
S-Quad Optical Heat	S4-710
Optical*	S4-715
Dual Optical Heat Sensor	S4-711
Dual Optical Heat Sensor CO	S4-911

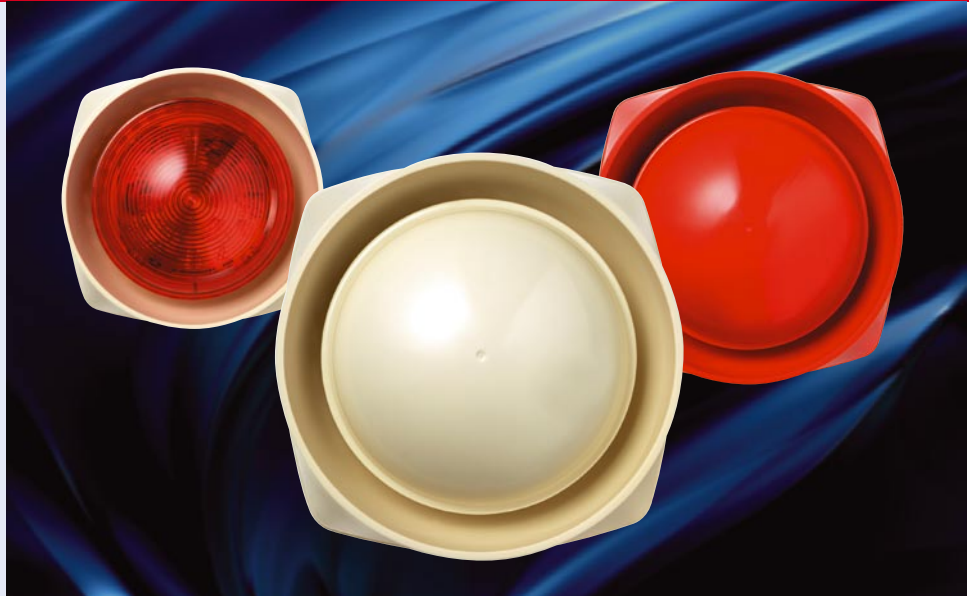
(\*only for use with Vigilon Compact)

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## 6: VIGILON LOOP DEVICES

# 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	125	70	200	125	70
Device Load Factor	5	8	13	5	8	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	EN54 part 3 (except voice sounders) (applied for)					

## 6: VIGILON LOOP DEVICES

## 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.

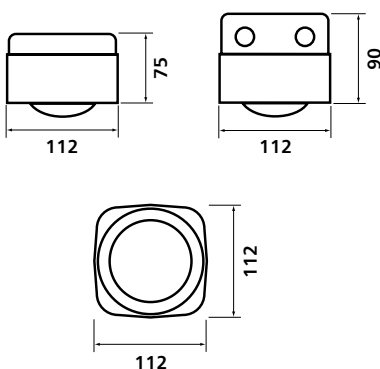
## TECHNICAL SPECIFICATION – 1.1 TONE AND VOICE SOUNDERS WITH STROBE

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	16	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 (Except Voice Sounders)						

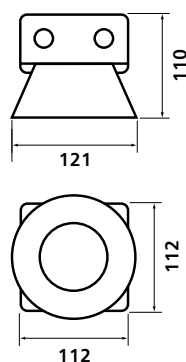
- When using the bell sound with voice enhanced sounders refer to the "Inc Bell Tone" column for the loop loading data.
- To use the new range of Sounders the panel software (main & repeat) may need to be upgraded.

## 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

## IP55 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-VP-R
Voice Sounder White	S2IP-VP-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-VP-ST-RR
Voice Sounder/Strobe White	S3-VP-ST-WR
Voice Sounder Red	S3-VP-R
Voice Sounder White	S3-VP-W

## IP55 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-VP-ST-RR

Voice Sounder/ Strobe White	S3IP-VP-ST-WR
Voice Sounder Red	S3IP-VP-R
Voice Sounder White	S3IP-VP-W

## IP55 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: VIGILON LOOP DEVICES

# Manual Call Points

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

Versions available include:

- Resettable or break glass
- Lift up covers
- Keyswitch
- IP55 rated – when fitted with cover and surface box



Call Point

TECHNICAL SPECIFICATION	
Max Quantity per Loop	200
Operating Temperature	-25°C to 70°C
Ingress Protection	Standard IP43, Special IP55 (with cover and backbox)
Relevant Standard	EN54 Part 11
Approx Weight	0.11Kg
Device Load Factor	1

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### ORDER CODES

Manual Call Point (Glass)	S4-34800
Manual Call Point (Glass) with Protective cover	S4-34842
Resettable Element for MCP (Pack of 10)	S4-34890
Glass for MCP (Pack of 10)	S4-34891
Protective cover for MCP (Pack of 10)	S4-34892
Surface Back Box for MCP (Red Plastic) (Pack of 10)	S4-34895
MCP with Key Switch	34807

### Dimensions (mm)

