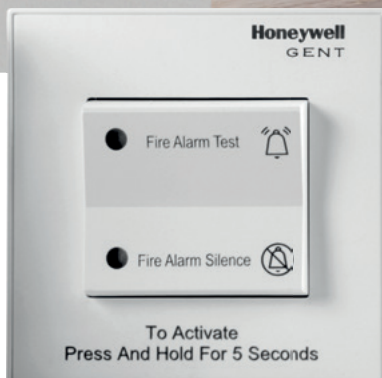


**Honeywell**  
GENT



SAFE



## The SAFE System

Stop Alarms Falsely Evacuating

# The SAFE System

The SAFE system is a fully engineered solution for buildings, allowing you to bridge the gap between residential and landlord's fire alarm systems in High Risk Residential Buildings (HRRB's). We have designed a system that allows you to have an BS5839 Part 6 system work in conjunction with a full BS 5839 Part 1 system without any compromise.

The SAFE System is the most effective and flexible way of minimising false evacuations on the market.



## Type B Dependency

The Gent system is EN54 Part 2 Type B Dependency approved, which allows us to group devices into an Alarm Area as if they were an individual system. We then have the possibility of 'Alerting' those in that particular Alarm Area only, as well as having the functionality of 'Silencing' those Alarms locally via the Gent SAFE button.

On receipt of the first fire signal from a device in an Alarm Area, only the local alarm will be triggered. If the alarm is confirmed by a second device activation the fire system will proceed to the programmed evacuation procedure (general alarm or part of staged evacuation). Alternatively, if the confirmation signal is not given the system may reset automatically, without attendance by the premises management. A confirmation signal may be given by; a second device in the same Alarm Area, a second signal from the same multicriteria S-Quad or a manual call point.

This scenario allows individual Alarm Areas to be protected, where in the past, traditional detection may have not been considered, due to the risk of disruption from false alarms. It also eliminates the need for the system to be manually reset once the nuisance smoke has cleared.



## Never be without detection

Through using our S-Quad multi criteria detection, our SAFE system only allows the alarm to be silenced when smoke is detected, allowing your occupant enough time to remove any unwanted smoke whilst the system is silenced. However, if any heat is detected by the S-Quads it will automatically override the muted mode to ensure the fire system's full cause and effect is activated.



Red and silver options available.

## The power of voice

In the event of a general evacuation of the building, our voice enhanced detectors will provide your occupants with clear guidance on what to do in an emergency. Honeywell Gent have produced specific voice messages advising whether the occupants should evacuate, remain as they are or wait for further instructions. The fire service will also have the ability to change the guidance from 'stay put' to evacuate through simple key switch interfaces either for the whole building or floor by floor, if required.

## Easy for landlords to manage and support

The solution is ideal to ensure compliance with BS5839 Part 6. Honeywell Gent's VignSite tool allows building owners to compile reports on residential alarm tests. They can then monitor occupants' behaviour and investigate whether any particular occupant has had to regularly use the 'Fire Alarm Silence' button on their SAFE system, allowing them to manage any potential risks.

## Flexible and simple to install

In partnership with our sister company MK we have designed a modern and stylish SAFE button with convenient LEDs, which are powered by a Gent interface providing a visual indication of any changes to the system, fitting neatly in to a single gang socket.

The system works seamlessly with Gent S-Quad detectors, as well as with other mains powered wireless residential detectors\*. Allowing you to have full flexibility on the way you approach the system design for your new build or retro-fit project.

The SAFE solution is fully configurable through Honeywell Gent's configuration tool, allowing you to specify the times of delay pre or post button activation, depending on your requirements and risk assessment.



\*with correct interfacing and specification

# 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 SAFE, 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 can incorporate up to four separate sensing elements – heat, forward optical, backward optical and carbon monoxide that combine to detect real fires quickly
- SAFE is recommended for use with S-Quad multi criteria devices
- In the unlikely event of a SAFE button being silenced and heat being detected, the S-Quad automatically overrides the muted mode to ensure the fire system's full cause and effect is activated

## 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 VADs
- S-Quad's VADs are all certified to EN54 part 23 with up to 100 devices supported by the Vigilon loop

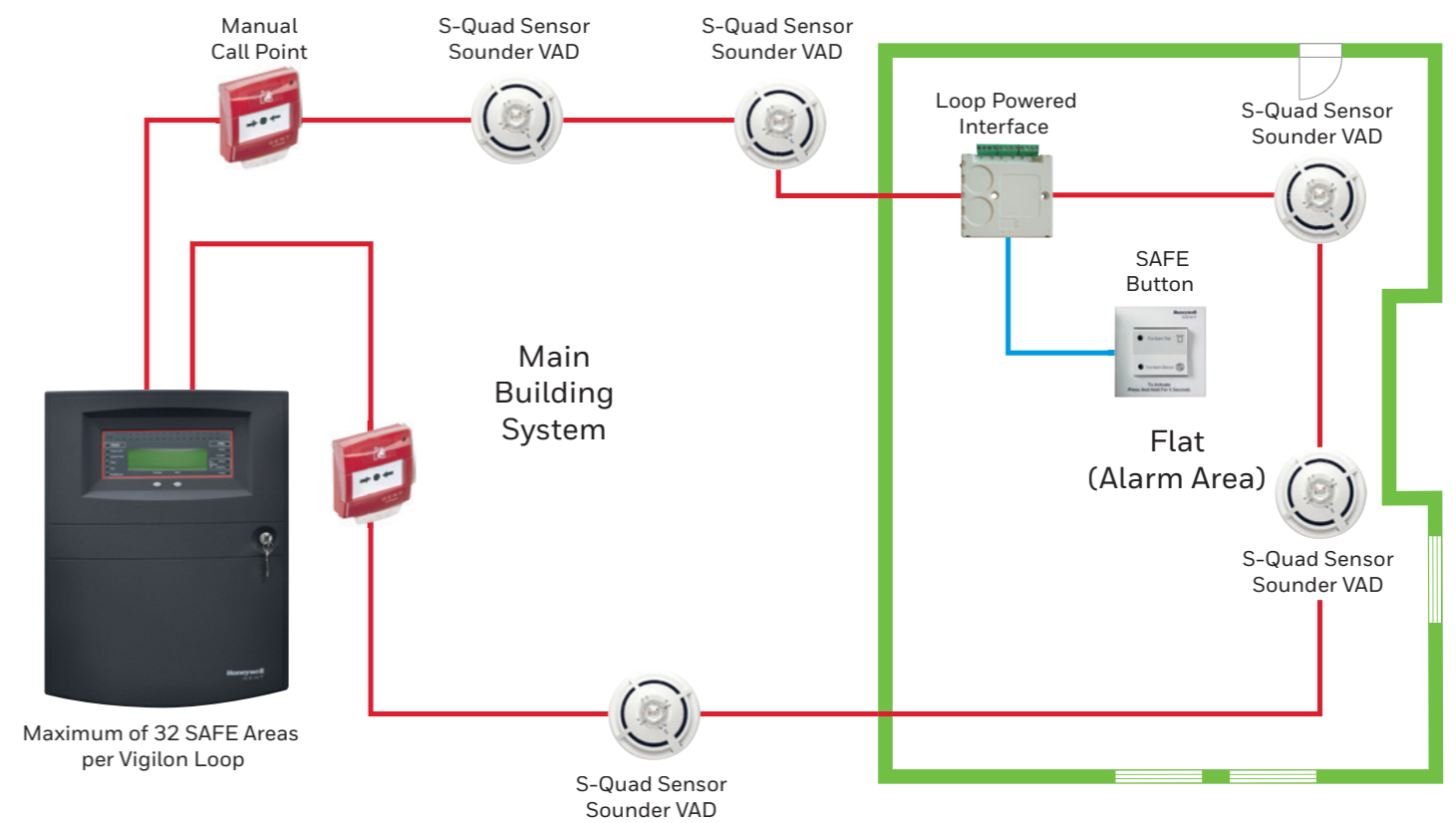
# System Architecture

The SAFE system sits on a multi-domain Vigilon Network which 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 is fully compliant with all relevant industry standards. The products that make up the Gent system are LPCB approved to EN54, complying with BS 5839-1:2017.

## SAFE System – System Architecture, Wired S-Quad



The Loop Powered Interface can be located in the Alarm area or an accessible area for ease of service and maintenance.

A T-Breaker can also be used to reduce the cabling.

Our SAFE system is extremely versatile and caters for a wide range of applications. Our solution can be interfaced with third party domestic detectors to provide safety in everyday homes based on compatibility. Please contact us for more information.

# Applications

The Honeywell Gent SAFE solution is suitable for a variety of applications where management of unwanted alarms is critical, such as:

- High Risk Residential Buildings (HRRB)
- Hospital wards
- Nursing homes
- Student accommodation



## High Risk Residential Buildings

SAFE is ideally suited to High Risk Residential Buildings where there is a need to comply with BS5839 Part 1 in the landlord's areas of the building and BS5839 Part 6 in the dwellings.

BS5839 Part 6 requires the alarm system in each dwelling to be tested on a regular basis. The SAFE button provides this functionality, allowing occupants to test their local alarms. Each test is logged on the Vigilant system, allowing landlords to quickly check that all occupants are performing this task and ensure fire safety and compliance is achieved.

The number of first alarms raised from each dwelling is also monitored, helping landlords work with occupants to identify the root cause of first alarms and minimise the potential fire risk to other occupants within the building.

## Hospital wards

Often, unwanted alarms occur on hospital wards causing disruption and inconvenience to a wider area other than the location of fire, due to the cause and affect requirements of HTM-05/03.

The ability to control the first alarm and allowing nursing staff to investigate the incident on the ward without a fire signal affecting other areas of the hospital provides a significant advantage in reducing staff and patient disruption.

Should it be found that the incident is not a real fire, the SAFE button can be actioned and the local alarms on the ward can be silenced.



## Offices

A multi-tenanted building is a common place in the modern working environment.

Offices with kitchen / breakout area with cooking facilities can be a common cause of unwanted alarms. The SAFE system provides the ability to contain an event within a building level without affecting other occupants.

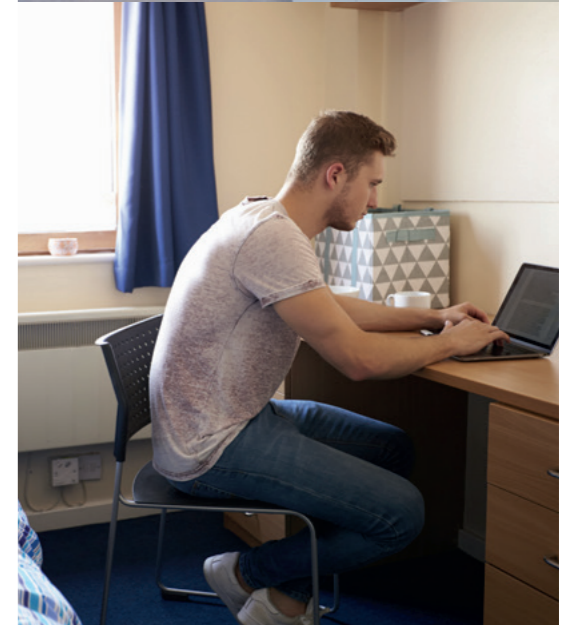
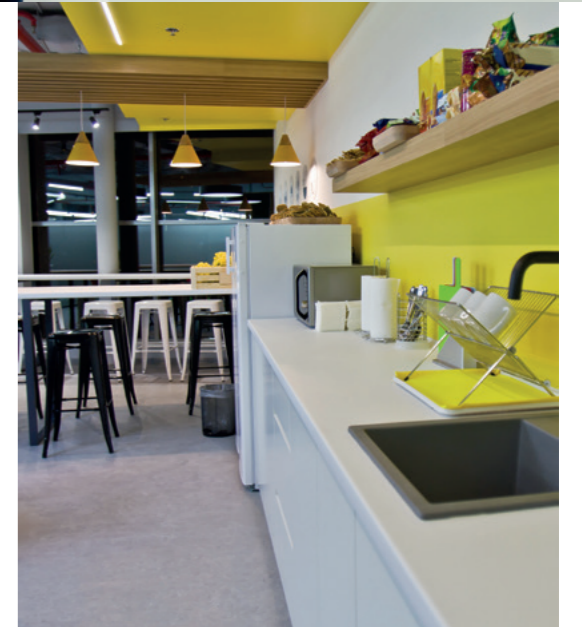
## Student Accommodation

Student accommodation facilities are traditionally well protected buildings with fire detection and alarm system designed to BS 5839 - Part 1 category L1.

They can be particularly difficult environments with a known potential for unwanted alarms, issues on many sites include:

- Occupant behaviour
- Cooking
- Smoking
- Showers

Whilst these buildings, in general, have sophisticated cause and effect strategies to minimise full evacuation of the building, the SAFE solution further enhances the ability to manage and control unwanted alarms in these environments.



# The SAFE 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.

## UK

Gent works in partnership with the Gent 24 Network of Approved System Integrators who supply Gent equipment and carry out design, installation, commissioning and maintenance operations to the highest standards of workmanship.



## International

Across the world, Gent works in partnership with approved distributors who supply Gent equipment and carry out design, installation, commissioning, and maintenance operations to the highest standards of workmanship.



### For more information

[www.gent.co.uk](http://www.gent.co.uk)

### Honeywell Gent

140 Waterside Road  
Hamilton Industrial Park,  
Leicester, LE5 1TN  
Telephone: 0203 409 1779  
E-mail: [gentenquiry@honeywell.com](mailto:gentenquiry@honeywell.com)

Content subject to change  
without notice.

GEN153 | 09/2019  
© 2019 Honeywell International Inc.

**Honeywell**  
GENT