



ANALOGUE FIRE DETECTION
SENTRI SYSTEM



SMS

SMS is a Honeywell Life Safety Systems business, based in the UK offering a wide range of market leading fire detection and alarm products.

Operating for over 25 years, SMS works in partnership with selected fire alarm installers across the length and breadth of the United Kingdom. The SenTRI System products are available to 150 approved, trained and certified companies, providing choice and expertise in all manner of services required. A full list of SMS approved SenTRI partners are available on request.

SenTRI system products carry third party LPCB product approvals and are manufactured within an accredited ISO9001:2008 plant.

Honeywell is proud of it's innovation in technology delivering leading and dependable fire detection and alarm equipment across the globe. Aside from providing fire detection and alarm systems, Honeywell also offers expertise in security products, building control management products as well as wiring and electrical devices.

10 reasons to choose the SenTRI System

1

Choice of where you buy your SenTRI System from and who then services and maintains it after installation. SMS offers 150 approved and trained UK wide partners to select from.

2

SenTRI sensor selection minimise false alarms using true analogue sensing technology. Each sensor includes a range of selectable sensitivity states allowing for individual settings to be applied to minimise unwanted alarm events.

3

SenTRI sensors have integral sounders and Visual alarms certified to EN54 Parts 3 and 23.

4

Integral sensor sounders allow for cost effective changes to be made when required, without the need for expensive installation costs associated with additional wiring or power supplies.

5

Every SenTRI system device includes a loop wiring isolator unit as standard. This allows every device to be considered for use at zone boundaries as well as the ability to quickly pinpoint system or wiring faults.

6

Scalable in size, SenTRI offers system technology to all sizes of building from 1 loop systems for small to medium sized buildings, right up to networked 4 loop systems for large buildings where complex evacuation principles may prevail.

7

The system products carry full third party certification from the Loss Prevention Certification Board (LPCB) to the applicable standards under EN54.

8

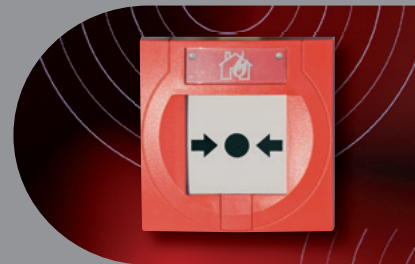
Backwards compatibility. SenTRI system products are designed with longevity and compatibility in mind and can be used on predecessor systems within the SMS portfolio.

9

Support and backup. All SenTRI partners complete up to 5 days of product and system training to engineers and also support system installations to customers satisfaction. This support is backed up with technical site support services as and when required.

10

Products are manufactured in an ISO9001:2008 approved plant.



The SenTRI ONE Control Panel

SenTRI ONE is a single loop analogue addressable panel with an intuitive user interface and attractive appearance. Managing up to 127 devices on the loop, SenTRI ONE is ideal for small systems.



SenTRI ONE Control Panel

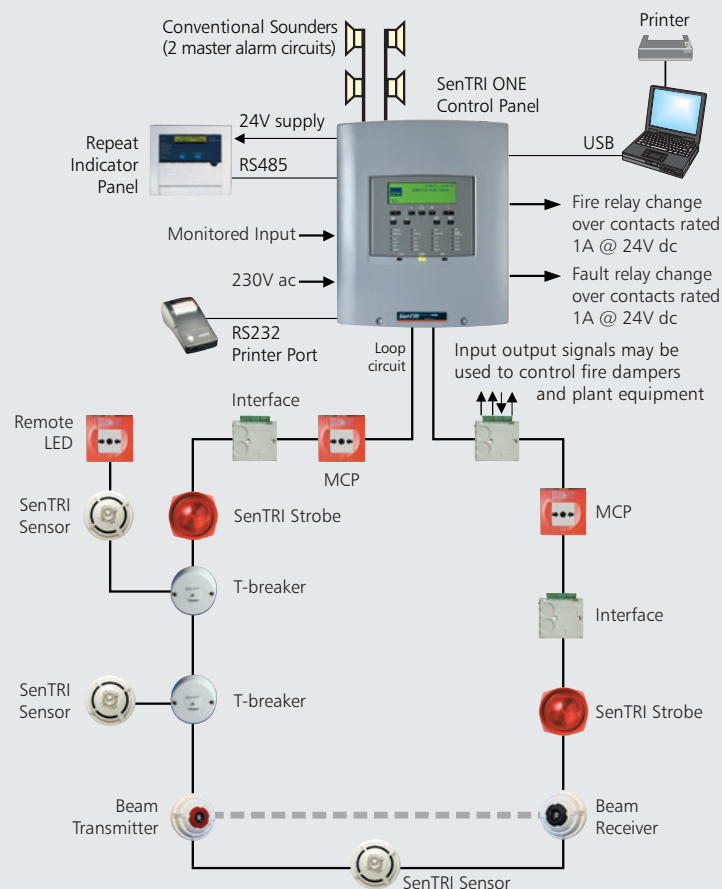
SenTRI ONE has been designed with ease of use as a high priority. From installation and commissioning to everyday use, this modern looking panel delivers an experience that makes the fire alarm system easy to use and safe to operate.

SenTRI ONE operates the latest range of SenTRI loop devices. This allows a small system to benefit from advanced fire detection technology and powered loop performance.

Key features of the SenTRI ONE system:

- Weekly test reminder. If selected, the system will identify and advise which manual call point should be next tested in sequence, as per the requirements of BS5839 Part 1
- Maintenance reminder. If selected, the system will advise when the system requires a standard maintenance visit
- Simple to use fire plans allow for the system to be used in smaller premises that can take advantage of the sensing technology that prevents false alarms
- Straight forward and easy to use menus allow the user to quickly identify the details of fire and fault events

TYPICAL SenTRI ONE SYSTEM



* The strobe devices shown are not visual alarm devices and do not meet EN54 Part 23

The SenTRI TWO Control Panel



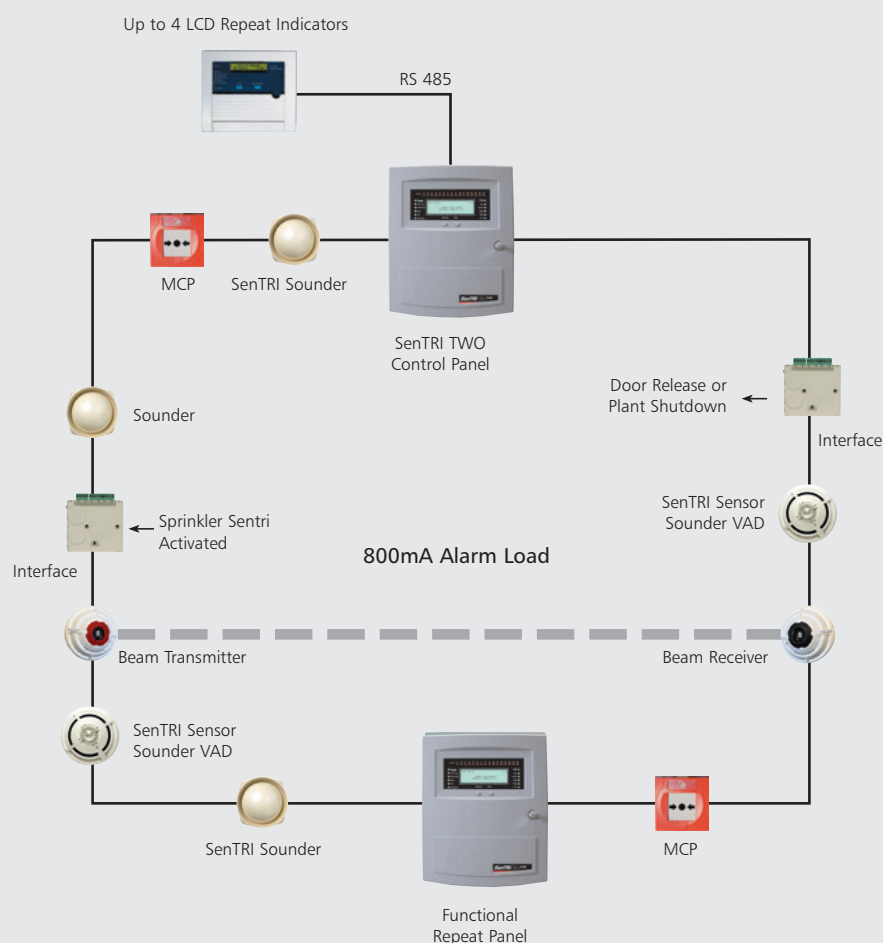
The SenTRI TWO analogue addressable panel offers extended features over the SenTRI ONE panel for medium sized building applications. Features extend to provide non alarm functionality, user defined programming options and greater capacity within the system size.

SenTRI TWO Control Panel

The panel is capable of accommodating up to 200 devices including sensors, sounders, Sensor sounders and visual alarms certified to EN54 Part 23, manual call points and a wide range of interface units. The panel can also accommodate a fully functional loop powered repeat indicating panel. The SenTRI TWO control panel includes a key access on the front door for quick and easy access to controls for silence, sound and reset.



TYPICAL SenTRI TWO SYSTEM



Key features of the SenTRI TWO system:

- Up to 200 devices per loop incorporating high quantities of both sensor sounders and sensor sounder strobes certified to EN54 Part 23 devices
- Networkable up to 31 control panels on a secure network; allowing seamless control for the overall system from any one panel
- User defined programmable controls which can be activated by buttons, keys or the in-built calendar function
- Semi-flush recess option for locations that require a discreet smart aesthetical appearance

The SenTRI FOUR Control Panel

The SenTRI FOUR loop analogue addressable panel offers medium to large sized building owners the latest in system flexibility and control panel aesthetics.



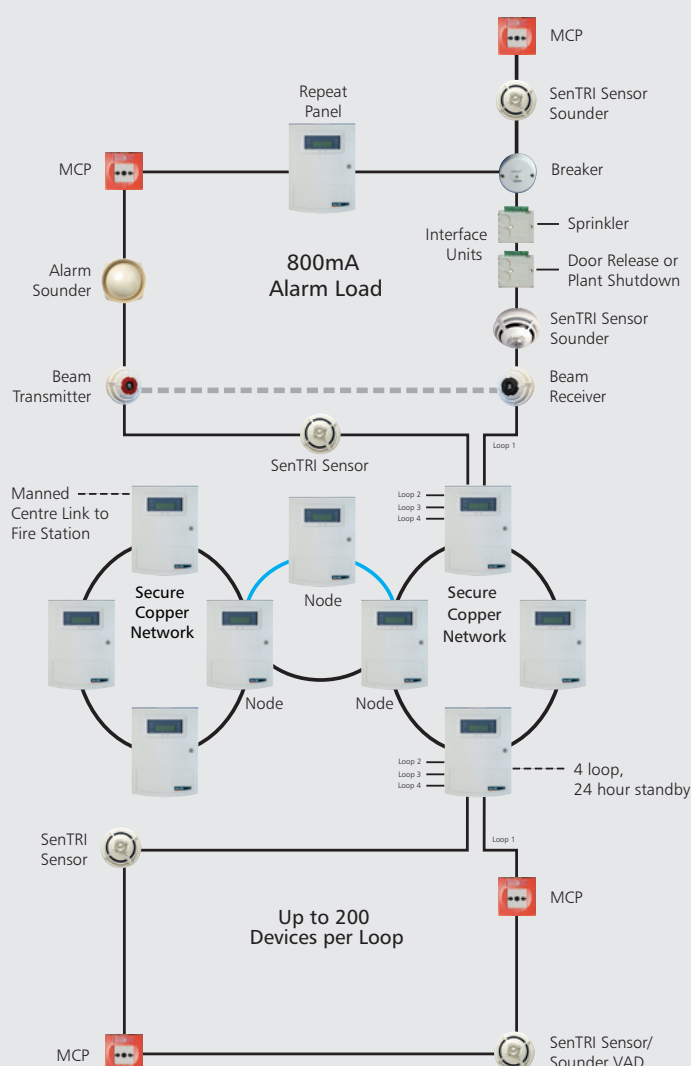
SenTRI FOUR Control Panel

The panel accommodates up to 4 loops, each of which is capable of driving up to 200 devices including sensor sounders, sounder strobes* and beam sensors. The panel provides a high level of programmable capability for use in buildings where complex site cause and effects are required across a number of locations and zones.

Key features of the SenTRI FOUR system:

- A built in printer provides easy access to a wide range of system information
- Extended power supply and battery capability provides battery backup for up to 72 hours followed by 30 minutes of alarm
- Can be networked alongside SenTRI TWO control panels, providing flexibility on sites requiring a mixture of loop configurations
- Programming allows for point to point device actions across both loops and networks giving high levels of control in the event of a fire

TYPICAL SenTRI FOUR SYSTEM



SenTRI Loop Devices: Three functions in one

Our extensive range of SenTRI loop devices are easy to use and compatible with our full panel range.

Reduce system costs by taking full advantage of the SenTRI multi-function devices that combine fire sensing with a sounder and/or a EN54-23 VAD. Fewer devices means less cabling and therefore reduced time spent on site.

Because all of the SenTRI devices are powered by the loop each device requires just one pair of cables and one set of terminations to provide all of its multi-sensor, sensor sounder and sensor sounder with EN54-23 VAD functionalities.



SenTRI – easy to specify and Install

- There is a built-in isolator in every single SenTRI device – saving you more money whilst improving the integrity of the system
- Each sensor has a monitored line that can be configured for a fire output or a fire input – this may remove the need and cost for a separate interface
- One base fits all! The SenTRI sensor range all fit a standard 1st fix sensor base saving you additional costs on separate bases

SenTRI – fully compliant systems

- The capability and functionality of the panels coupled with our SenTRI devices ensures that the system complies with the requirements of:
 - The Building Regulations Approved Document B&M
 - The British Standard BS5839-1:2013





SenTRI Sensors

The new patented SenTRI Sensors with built in sounder and VAD.

SenTRI Sensors ensure peace of mind

- Advanced sensor technology ensures rapid detection of real fires and minimises the likelihood of false triggers
- Multisensor optical heats ensure a speedy response to a wide range of fire types
- Combined sensor sounder VADs ensure all occupants in a building are effectively warned of any emergency delivering easy compliance with The Equality Act 2010 (formerly The Disability Discrimination Act Part III 1995)
- Individually addressed devices mean that the source of a fire can be pinpointed allowing effective action without unnecessary delay

SenTRI Sensor Sounder

- Patented sounder design results in low current devices with high output all in a neat and compact design
- Tones can be programmed to avoid confusion with other system alarms
- Different signals for up to 3 levels of alarm allows phased evacuation and flexible fire plans with standard equipment
- An individual volume control soft start option, coupled with synchronised tones throughout the building means effective warning without unnecessary panic

SenTRI Sensor Sounder VAD

- Integral high intensity loop powered VAD in accordance with EN54 Part 23 provides visible warning in high noise areas and for people with impaired hearing
- Low power consumption means that each loop can power up to 100 sensor sounders with VAD
- Independent control of the VAD and the sounder allows silent alert for staff in public areas ahead of a general alarm allowing a managed and safe evacuation from public buildings
- The sensor sounder VADs have an optional bell tone which can be used for class change signal in schools
- SenTRI sound and VAD signals are synchronised across loops to ensure messages are clearly understood

SENTRI OPTICAL/ HEAT MULTISENSOR SENSITIVITY STATES

STATE	Optical Smoke channel	Heat Channel
0	STATE 0# Medium sensitivity optical	Class A1 heat
2	Low sensitivity optical	Class A1 heat
3	High sensitivity optical, Class A1 heat	Class A1 heat
4	Medium sensitivity (no spike filter)	Class A1 heat
5	Medium sensitivity optical	Class B heat
6	Low sensitivity optical, Class BS heat	Class BS heat
7	Medium sensitivity optical	Class A2S heat
8	Delayed medium sensitivity optical	Class A1 heat
11	Low sensitivity optical	Class B heat
12	✗	Class A1 heat only

The table shows the various 'states' of these smoke sensor options.

Loop Powered Devices

The combination of powerful software in the control panels and an advanced range of loop powered devices delivers a flexible, easy to use system for all building requirements and most applications.

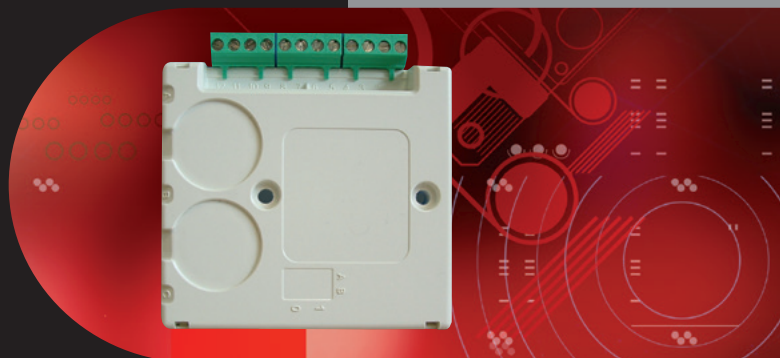
Beam Sensors

- The beam sensors are connected to the same loop wiring as all the other SenTRI devices, no additional wiring is needed
- The beam sensors can be used on large open areas such as atria and warehouses. The sensors allow for the effects of direct sunlight through atria windows and also short lived triggers of the beam path in warehouses, such as birds and forklifts
- The first fit angle bracket (supplied as an accessory) allows the beam unit to move, position and fix through all three axis as well as counter any movement of the building walls



Interfaces

- A flexible range of housings and mounting options
- Interfaces with output channels don't need additional relays – the panel will monitor for cable faults
- The range includes low voltage and mains switching variants to meet all application needs
- Our Mains Powered Interface (not pictured) has an integral EN54 Part 4 certified power supply. Ideal for door management and aspirating systems



Manual Call Points

- The manual call point is available as a break glass variant or with resettable elements
- As well as saving on the cost of replacement glasses, the resettable element is ideal where glass could prove to be a safety hazard
- Surface or flush mounted variants are available - the call point flushes with a standard installation back box



[illegible]



A series of horizontal lines for writing notes, spanning the width of the page below the header.

SMS is part of Honeywell

Waterside Road Hamilton Industrial Park Leicester LE5 1TN UK

Tel +44 (0)116 246 2042 **Fax** +44 (0)116 246 2016 **Web** www.smsfire.co.uk

Literature ref: SMS18

