SMS

The SenTRI System

The SenTRI 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.
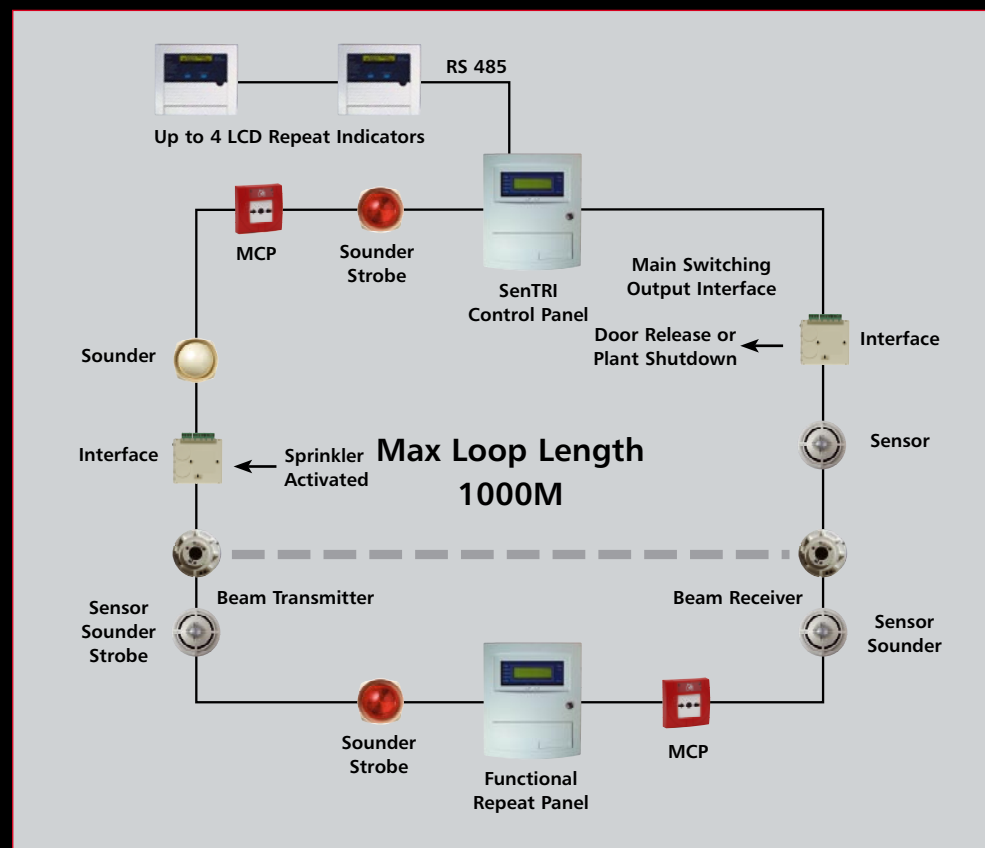
The SenTRI System is suitable for all building types and sizes

- The SenTRI control panel is available in 1 to 2 loop standalone systems and up to 32 panels networked together
- Each SenTRI loop can control up to 200 devices made up of Manual Call Points, SenTRI Multi-Sensors, Beam Sensors, Sounders, Strobes, Voice Sounders, Interfaces, Repeat and Mimic panels
- The SenTRI system has a range of repeat panels from a simple LCD display to a fully functional repeat panel
- SenTRI interfaces provide the interface and software to recognise other life safety systems connected to it, for example general alarm systems in prisons or police stations, security or call systems, sprinklers, air handling units, lifts and lift alarms etc

10 reasons to choose the SenTRI System

1 SenTRI panels can be installed as standalone panels or in networks of up to 32 panels making it suitable for systems of any size.

2 SenTRI loop architecture allows up to 200 devices per 1 km loop each with its own integral isolator, making it flexible, safe and economical to use.

3 Advanced soft addressing techniques reduce commissioning time and the SAFE address facility assigns permanent addresses to aid system management.

4 Every SenTRI loop device has a built in short circuit isolator allowing easy design and flexibility when the building use changes.

5 The SenTRI integral loop powered sensor sounder allows sounders to be added to a system without the need for extra wiring or use of address capacity on the loop.

6 SenTRI loop powered sounders and sounder strobes ensure that the requirements of BS 5839 and the DDA can be easily met without the need for extensive additional power supplies.

7 Advanced detection techniques using algorithms held in the SenTRI panel software ensures quick and reliable detection of fires while reducing the risk of unwanted alarms.

8 The SenTRI Sensors have a wide range of sensitivity states making it easy to adapt to many difficult applications.

9 The SenTRI product range includes simple repeat indicators and high function loop controlled repeat panels providing system information and control at remote points on the system.

10 The Windows based SenTRI Commissioning Tool provides an easy means to program the most complex fire plans to suit any building.

SenTRI Control Panel

SenTRI Control Panel

- Design complies with EN 54 parts 2&4 1997
- 1 or 2 loops up to 1km long and 200 devices per loop
- Panels can be included in a network of up to 32 panels
- 8 x 40 character LCD display
- Lockable outer door prevents tampering with controls
- Password protection of engineering functions
- LED indication of zones on fire

The SenTRI System responds quickly to real fires

- SenTRI sensors and control panels work together to respond quickly to activity in the sensor chamber
- The SenTRI panel stores data from many types of real fires in its memory and matches activity against the stored patterns
- False inputs that do not match a real fire pattern are ignored or flagged as faults
- Multi criteria optical heat sensors reduce the time taken to detect a fire. If heat is present the sensitivity to smoke is increased accordingly
- Powerful programming options can be used to ensure a fast response to real fires while avoiding unnecessary evacuation of the whole site.

The SenTRI system is cost effective to install

- SenTRI is the most cost effective system to install with the largest number and variety of devices all on the same 2 core loop
- Each SenTRI loop device includes a short circuit isolator reducing installation costs at the same time increasing system integrity
- Multi-function devices combining sensor, sounder and strobe reduce the number of individual devices that need to be installed.

The SenTRI system provides peace of mind

- All SenTRI loop devices are designed to comply with the EN 54 European standard for fire detection systems
- Loop architecture combined with short circuit isolators in every device ensures maximum tolerance to cable faults
- Sensors can be locked into their base protecting them from unauthorised removal
- The powerful combination of devices and system configurability ensures easy compliance with regulations such as BS 5839 part 1, Regulatory Reform Order, Disability Discrimination Act and Building regulations
- Advanced loop and network communications protocols ensure rapid response to fire triggers achieving response in under 3 seconds even across networks.

SenTRI Sensors

The new patented SenTRI sensors with built in sounder and strobe.

SenTRI sensors – a cost effective installation

- Multifunctional sensor sounders with sounder strobe and integral isolator, mean one device will carry out 4 functions
- All SenTRI devices connect to the same 2-core loop
- Loop powered sounders, strobes and interfaces mean there is no need for additional power supplies.

SenTRI sensors ensure peace of mind

- Advanced sensor technology ensures rapid detection of real fires and minimises likelihood of false triggers
- Multisensor optical heats ensure a speedy response to a wide range of fire types
- Combined sensor sounder strobes ensure all occupants in a building are effectively warned of any emergency delivering easy compliance with the DDA
- 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 Strobe

- Integral high intensity loop powered strobe provides visible waning in high noise areas and for people with impaired hearing
- Low power requirements mean a wide coverage without extra power supplies
- Independent control of the strobe 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 sounder strobe has an optional bell tone which can be used for class change signal in schools
- SenTRI sound and strobe signals are synchronised across loops to ensure messages are clearly understood.

SENTRI OPTICAL/SMOKE & HEAT SENSOR		
STATE	SENSOR	Description of State set up
0	OHeat	Medium Optical + A1 Heat
2	OHeat	Low Optical + A1 Heat
3	OHeat	High Optical + A1 Heat
5	OHeat	Medium Optical + B Heat
6	OHeat	Low Optical + BS Heat
8	OHeat	Delayed Medium Optical + A1 Heat
11	OHeat	Low Optical + B Heat
12	OHeat	A1 Heat Only
15	OHeat	All channels set to off

SenTRI Sounder Strobes
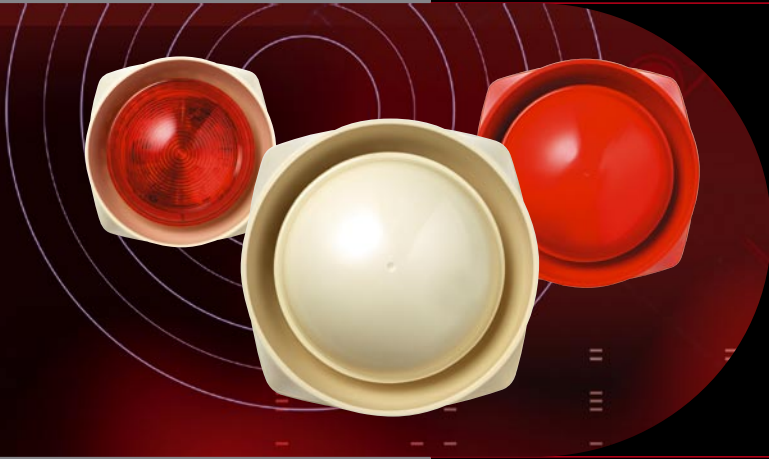
- Up to 200 high efficiency loop powered sounders can be installed on one loop
- Combined sounder strobes deliver the same output as a 3W xenon strobe
- Individual volume setting in situ via the handilink remote control
- Strobe and sounder elements actively monitored for failure
- Certified by LPCB to EN 54 part 3 for alarm sounders

SenTRI Sounder Strobes – cost effective solution

- Loop powered sounders and sounder strobes are connected to the same circuit as sensors
- High power efficiency means many sounders can be connected to the same loop
- Multifunctional devices mean fewer devices need to be installed
- Each sounder is addressed and can be individually operated to allow customised evacuation fire plans to be configured
- Sound and strobe signals are synchronised with sensor sounder strobes across the system
- Every sounder is protected by an integral short circuit isolator so that no sounder is lost due to single cable failure
- A wide range of sound patterns can be set that are compatible with the sensor sounder.

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.

SenTRI Beam Sensors, Interfaces and MCPs

SenTRI Beam Sensors

- SenTRI loop powered beam sensors provide extensive benefits compared to conventional beam detectors. They make SenTRI the obvious choice for any building where beam sensors are needed
- SenTRI beams are powered by the detection loop avoiding costly Power Supply Units and batteries
- Commissioning at the panel ensures optimum gain settings and accurate alignment.

SenTRI Interfaces

- SenTRI has a comprehensive range of interface units to connect to other fire systems or to control plant. Most devices are loop powered and there is a flexible range of housings and mounting options
- SenTRI interfaces offer an extensive range to fulfil the following options:
    - single input of fire or fault
    - zone of conventional detectors or call points
    - control of plant with optional confirmation signal
    - switching of mains supply to shut down plant or release emergency doors
- A mains powered unit can replace a conventional panel to connect seamlessly to SenTRI. Ideal for phased refurbishing of old systems.

SenTRI Manual Call Points

An EN 54 part 11 compliant addressable call point with a response time less than 1 second.

Versions available include:

- Resettable or break glass
- Lift up covers
- IP55 rated – when fitted with cover and surface box
- Surface and flush mounted into a back box
- Anti vandal lift up cover
- Simple glass replacement process
- LED confirmation of operation