(((((*Cygnus*))))) ®

Wireless Everywhere

SmartNet

Fire detection and alarm systems

Contents

(((Cygnus)))

who are we?

We develop and manufacture wireless fire detection and alarm systems for commercial applications.

Our decades of knowledge and experience make us an industry leader in fire safety equipment and radio communications. We offer solutions based on the latest industry insights, technology and user experience.

Cygnus is an independently owned developer and manufacturer of life-saving fire protection equipment, specialising in wireless fire alarm technology. The company began with its original Cygnus radio evacuation systems for construction sites, which became renowned for their range, reliability and performance. Cygnus complies with the required fire safety standards and directives, including BS 5839 and EN 54. It recently launched the world's first 100% wireless, EN 54 certified fire detection and alarm system, SmartNet, which features patented Cygnus technology and is 'Made in Britain' registered. Combined with technical and customer support, Cygnus is spearheading the increased deployment of wireless fire alarm technology by delivering viable, user-friendly wireless options for every hard-wired application.

MADE IN BRITAIN

Intertek · Intertek · UKAS

Introducing: Cygnus SmartNet fire detection and alarm system

The world's first 100% wireless fire detection and alarm systems

The Cygnus SmartNet wireless fire detection and alarm system is an EN 54 certified powerful mesh radio network capable of handling thousands of devices in one solution – suitable for most industrial and commercial environments. The range consists of SmartNet-Pro and SmartNet-100.

Smoke and heat detectors are essential early warning devices in any environment where fire can pose a risk to life. Our detectors use the latest smoke and heat sensing technology to provide reliable detection, while reducing the risk of false alarms.

The wireless mesh network is a self-forming and self-healing fire detection and alarm solution. The network uses the patented Cygnus protocol to provide redundancy protection within at least two communication paths to each wireless device. It is capable of covering long distances, making it a highly cost-effective and flexible solution.

The SmartNet system configuration software is a single-point user interface for system design information, providing full cause and effect functionality. The tool also permits system diagnostics using any Windows device.

The Cygnus SmartNet wireless fire detection and alarm can cover vast areas in a wide range of environments, including:

Commercial and industrial property

Public spaces
Shopping centres, train stations, airports

Government buildings
Hospitals, police stations, council buildings

Educational buildings

Private properties and estates

High rise buildings

Smart**Net**
so clever

The smart solution to
fire safety

it needs no gateways, expanders or wires

The wireless mesh network system needs no gateway expander or loop-powered translating devices. Offering fast and reliable installation, ideal for time-critical projects.

it can protect hard to reach places

SmartNet devices have a long radio range due to the technology used and have a 360 degree directional antenna. Along with redundancy in the mesh network this enhances coverage and creates a highly reliable network.

self-forming and self-healing

The SmartNet Alarm radio devices use wireless mesh system that is self-forming and self-healing. This ensures system reliability and integrity.

it can be extended quickly and easily

The alarm utilises a powerful mesh radio network that's capable of handling thousands of devices in one solution, and it can quickly and easily add additional devices into the system.

Smart**Net**

Why choose wireless?

Easier Installations

Up to 20 times faster to install than other systems because there is:

- No cable specifications and fire-resistant categories
- No cable segregation
- No difficult cable runs within floor and ceiling voids or ducting
- No containment or chasing out, fire wall or compartment drilling
- No loop calculations, translators, expanders, repeaters, or maximum loop lengths and devices
- No additional sounder circuits
- No rechargeable battery backup calculations for control panels
- No complex wiring drawings
- No short circuit isolators
- No end of line resistors
- No junction boxes
- No cable replacement during refurbishments
- No expander Port allows connection of the Cygnus cellular module enabling remote monitoring and notification via our Cygnus ALERT Portal and app

Compliance

An EN 54 certified system that can be installed in accordance with BS 5839-1, avoiding:

- Fire-resistant cabling
- Restrictions on device locations
- Multiple circuits to protect against failure
- Loop communication speed requirements

Superior Safety

That ensures:

- No fire stopping
- No cable damage mitigation
- No combustible fixings
- No inadequate wiring
- No circuit overloading or high circuit loads

Day-to-Day Operations

That ensures:

- No voltage drops
- More efficient use of engineers' time

Why choose SmartNet?

- EN 54 certified and BS 5839 compliant
- 100% wireless mesh network system, with no gateways, expanders or loop-powered translating devices needed
- Cause and effect configuration tool with simple drag and drop functionality
- Patented self forming and self healing mesh Cygnus Technology
- Self-forming and self-healing radio mesh system for reliability and integrity
- Innovative channel hoping technology across 10 frequency channels

- Strong signal strength – suitable for all construction and property applications
- Integrated antenna for increased device performance
- Fast and reliable installation ideal for time-critical projects
- Set up and configure specific cause and effects with ease
- Quickly and easily add additional devices into the network
- Quicker installation means your engineers complete more work, generating higher profits

SmartNet

SmartNet range

SmartNet PRO

The world's first EN 54 certified and 100% wireless fire detection and alarm system

SmartNet 100

A smart, reliable and cost-effective fire detection and alarm system

SmartNet PRO

Scalability

SmartNet-Pro has the capability for 511 devices and up to 96 zones per panel, up to five panels can be networked together in SmartNet-Pro providing a solution of up to 2555 devices.

Reliable and robust

SmartNet-Pro runs on wireless radio devices as part of a robust, self-forming and self-healing mesh network technology, without the need for standalone signal boosters. Each device connects dynamically to provide highly efficient and robust network performance, with dual path redundancy.

Easy to install

By eliminating the need for costly and time consuming cabling, SmartNet dramatically reduces engineering time and overall project costs. This makes it ideal both for retrofit installations – where disruption to occupants is minimised – and for new build where project timescales are often extremely pressurised.

Easy to adapt

The benefits of SmartNet-Pro don't stop after installation. The absence of cabling makes it far easier to move and relocate detectors or other devices. It's also far simpler to extend a wireless fire detection and alarm system. So wireless systems are ideal for buildings likely to be extended or renovated in the future.

SmartNet 100

Maximum of 100 devices

SmartNet-100 allows installers to design a system featuring up to 100 devices from one control panel. The network is operates on a self-forming, self-healing mesh network using the renowned and patented Cygnus protocol across 10 frequency channels operating at 865-868 MHz. The control panel is mains power operated.

Small to medium sized applications

SmartNet-100 is the perfect solution for small to medium sized projects where a fast turnaround and minimal disruption is essential. With a SmartNet-100 wireless system installation can often be completed in a matter of hours.

Cost effective solution

By eliminating the need for costly and time consuming cabling, SmartNet-100 dramatically reduces engineering time and overall project costs. With only 100 devices allowed on the network and one control panel, configuration is a simple process. There is also no need for any wired component for the mesh to self-form and self-heal. The wireless mesh network system also requires no standalone gateway, expanders or translators speeding up installation, and further reduces labour time on site.

Control Panel & devices

The new SmartNet-100 range is distinct from the SmartNet-Pro range. Each system features a bespoke control panel and device set that will only network with control panels and devices of the same range; please note they cannot be interlinked with products from another range, for example, a SmartNet-100 control panel cannot be connected to an existing SmartNet-Pro system, equally, a SmartNet-Pro device is not compatible with a SmartNet-100 installation.

Cygnus ALERT

Remote notification and monitoring platform

Cygnus ALERT is the perfect remote notification and monitoring complement to the SmartNet range of fire detection and alarm systems.

The Cygnus ALERT notification and monitoring platform is a cloud-based solution to strengthen site safety. Using Cygnus ALERT, integrators and site administrators can receive event, fault or mesh information in real-time, enabling swift responses to on-site situations.

Easy to use

Cygnus ALERT is a cloud portal solution, accessed through a 2G and 4G cellular hardware module, with easy user management and notifications provided through the cloud portal via a Windows browser or intuitive, user-friendly android app. The ability for integrators to assign engineers and also end users provides enhanced support not only to the integrator but also added benefit to on-site managers.

Integration with SmartNet

Designed for seamless integration with Cygnus' range of SmartNet fire detection and alarm systems, the Cygnus ALERT module can be fitted into the SmartNet control panel on-site during installation and can also be retrofitted into pre-existing installations. Real-time information is automatically communicated to site administrators through the cloud portal to the app and via SMS, enabling prompt action to be taken, thereby, enhancing response times.

Scalability

Each control panel allows for one module to be installed. The cloud portal can view and notify on multiple sites, this level of scalability ensures that the Cygnus ALERT platform is adaptable to a wide range of applications. It can also remotely display system information once a fault is detected to provide more in-depth detail on the issue, such as, battery status faults, mesh status, fault history.

Cygnus ALERT is versatile and applicable to various settings such as residential and commercial buildings, industrial facilities, transport hubs, airports, shipyards, construction sites, and other environments.

Subscription solution

Cygnus ALERT users can enjoy a complementary subscription with their first purchase to provide immediate access. For continued access and uninterrupted benefits, a subscription is required beyond the initial period.

SmartNet

Configuration Tool

SmartNet is configured and commissioned using a Windows-based configuration tool on a PC, tablet or mobile device.

The software layout makes it easy to set up a new system, allowing site specific information to be added.

In addition to a system setup the configuration tool has an EN 54 check function which highlights any non compliant settings.

The drag and drop functionality enables you to select a device and assign it to a specific zone, which self addresses and allows the location description to be edited.

It gives you complete visibility over your system, enabling you to see radio communication paths and signal integrity while running system diagnostics to highlight any faults or areas of concern.

Cause and effect functionality can be set up through the configurator where individual area commands, evacuation stages and trigger points can be assigned.

Cygnus Technical Support

Our dedicated support team are here to assist you with any enquiries you may have while using our products and services

If you are a trained engineer, feel free to reach out to us through email or give us a call if you need immediate assistance. Our dedicated support team is ready to best help you with your query.

Contact Details:
Email: techsupport@cygnus-systems.com
Telephone: 01432 279000

Know what you are looking for? The Cygnus Support Site portal is an invaluable resource for our trained and registered users.

How to Access:
1. Visit our website:
   www.cygnus-systems.com/en-gb/login/
2. Log in using your registered credentials.
3. Navigate to the Support tab for comprehensive support options.

Support Portal Features:

- 24/7 Availability: Our support portal is accessible around the clock, ensuring assistance whenever you need it.

- User Manuals: Access detailed user manuals to guide you through product features and functionalities.

- Datasheets: Explore detailed datasheets providing in-depth technical information about our products.

- How-To Videos: Watch step-by-step instructional videos for visual guidance on various processes and tasks.

- FAQs: Find answers to frequently asked questions to troubleshoot issues quickly.

- And More: Explore additional resources designed to empower you with the information you need.

At Cygnus, we are committed to providing excellent support to our users.

The Support portal is designed to be your go-to destination for all technical assistance, having a wealth of information, enhancing, and making your experience with our products seamless.

Thank you for choosing Cygnus.
We look forward to supporting you on your technical journey.

The Cygnus Academy

If you are interested in learning how to install and maintain wireless fire alarm systems, then you've come to the right place

The Cygnus Academy is a high-quality training hub for those wanting to raise their skills levels in general and learn more about our SmartNet wireless fire detection and alarm system in particular.

The Cygnus Academy provides a modern, comfortable and fully equipped environment where installers can complete the one-day SmartNet Fundamentals training course to become Cygnus Certified Installers. The course combines both theoretical and hands-on practical training to enable participants to complete successful installations.

Cygnus Academy offers two locations for installers to attend the training course, the company's headquarters in Hereford or at the Training and Technology Centre in Meriden, Birmingham.

Topics covered include:
- SmartNet wireless technology overview
- Site and system configuration
- System installation
- Setting up the mobile app
- Diagnostics and fault-finding

By the end of the day, installers will be able to configure and fit a system correctly and provide a high-quality service to their customers.

Following completion of the Fundamentals course, there is also an Advanced course that covers the more in-depth features of the system, such as networking and cause and effects. Further information can be found by contacting the Cygnus Sales Team.

A word on our trainer

James Gilligan is a Senior Training and Technical Solutions Specialist at Cygnus. He has more than 25 years' experience within the fire and security arena, 15 years of those in senior technical positions. James has Member status of the IFSM, is a Tier 4 Fire Risk Assessor and Validator and is an IFE Member. He leads the training at the Cygnus Academy where his role is to deliver SmartNet training so that installers can become certified to install the 100% wireless and EN 54 certified fire detection and alarm system.

The training room gives participants a comfortable and inviting area to learn. There will be a maximum of eight people in each training session to allow for everyone to get involved and have the best experience whilst taking part in the training.

"Reliable, robust and easy to install wireless fire detection and alarm systems are a huge growth opportunity for installers," says Stephen Marsh, Head of Sales at Cygnus. "The SmartNet system transforms that opportunity into a business reality, with a system that is quick and simple to install and can be scaled effectively from small to large installations. SmartNet is also supported by expert in-depth training through the Cygnus Academy and ongoing first class technical support."

Contact Details:
Online booking form:
www.cygnus-systems.com/en-gb/training-bookings/
Telephone enquiry: 01432 279000
Email enquiry: sales@cygnus-systems.com

SmartNet
Control Panel

The SmartNet Control Panel offers the latest in indication and full cause and effect functionality. It's ideal for use in any commercial, industrial or heritage environment due to its large touch screen display and multiple user levels.

What's more, it is designed and manufactured to meet EN 54-2, EN 54-4 and EN 54-25, inclusive of all associated optional requirements. The control panel transmits wirelessly and is mains powered with a battery backup facility, built to exceed 72 hours.

Control Panel messages include alarms, pre-alarms, low battery alerts, and faults – all identifiable by location.

- Heavy duty plastic injection moulded enclosure with key lock panel entry
- Designed for surface mount or semi-recessed
- Can be installed in accordance with BS 5839-1 installation and servicing requirements
- SmartNet-Pro available with 64 and 96 zones with LED indication
- SmartNet-100 available with 32 zones with LED indication
- Space for 2 x 7.0 or 9.0 Ah 12v backup batteries
- Integrated spirit level for ease of install
- Resistive colour touch screen for ease of use and informative display

- 2 x monitored sounder circuits
- Disable function for sounder outputs and zones
- Full cause and effects
- Multiple test modes
- Three levels of user access
- Supports 511 devices for SmartNet-Pro
- Supports 100 devices for SmartNet-100
- Expander Port, allows connection of our cellular module enabling remote monitoring and notification via our Cygnus Alert Portal and app
- Device can be configured to generate distinct non-critical events, expanding the capabilities of the system

SmartNet

SmartNet
Standard Radio Base

- Certified to EN 54-25

- Range of detector heads including optical smoke, heat and combi sensors

- Analogue detection with intelligent sensing technology

- Addressable through the SmartNet configuration tool

- Locking detector and base mechanism for enhanced security

- Ultra-low powered device – 3.6v nominal

- 100% wireless

- Battery operated with a minimum three years battery life

- Dual fire LEDs for fire indication

- The wireless addressable base enables a mesh network to other devices and to the main panel through the Cygnus Wireless protocol.

- Separate interlocking ceiling mount plate for easy installation

- Easy to remove with detachment tool

- Gloss white or red options available

- Patented self forming and self healing mesh Cygnus Technology

- Multi colour LED status indication

Independently tested

Intertek

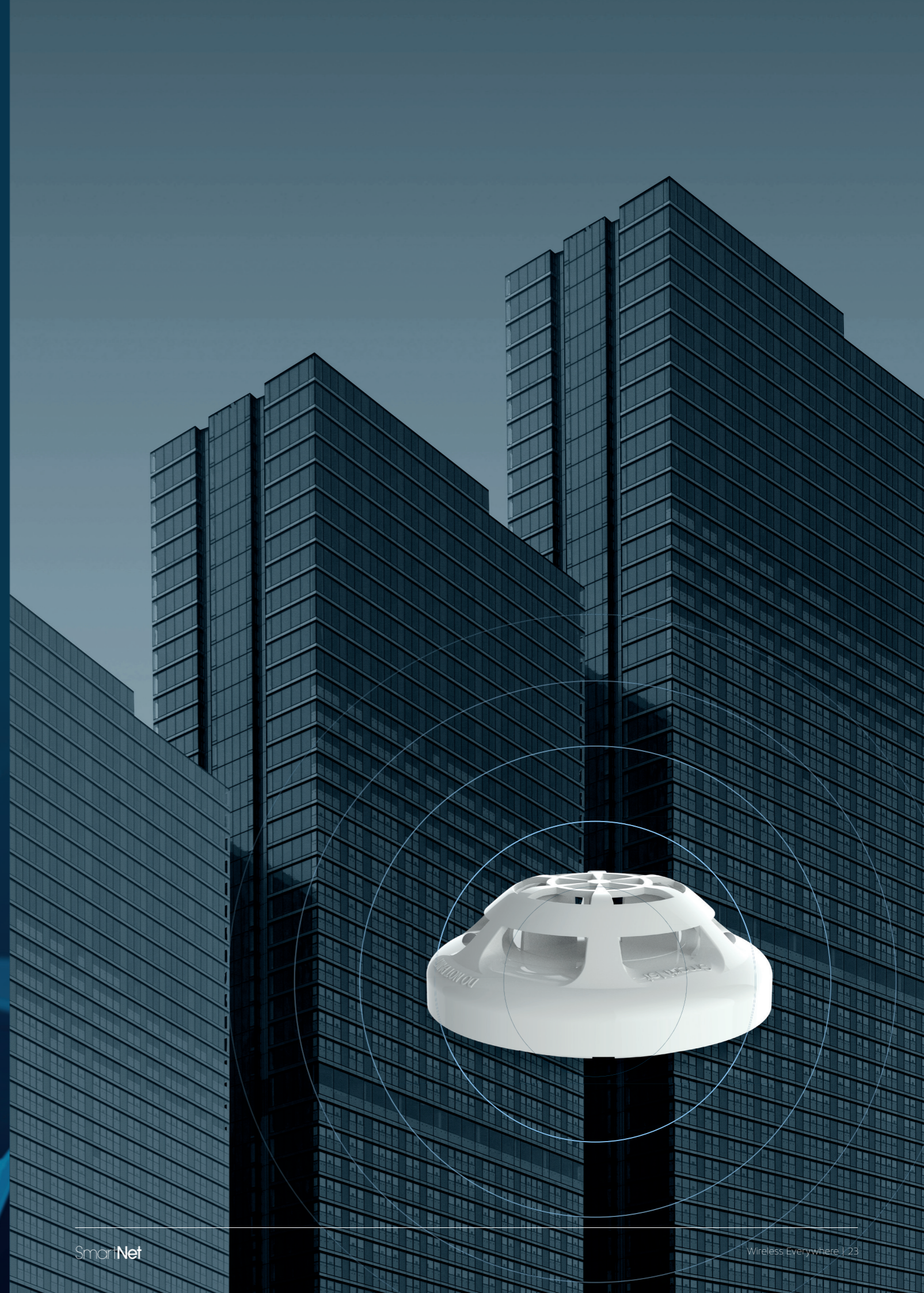# SmartNet
Sounder Radio Base

- Certified to EN 54-25 and EN 54-3

- Range of detector heads including optical smoke, heat, and combi sensors

- 32 sounder tones

- Addressable through the SmartNet configuration tool

- Locking detector and base mechanism for enhanced security

- Ultra-low powered device – 3.6v nominal with engineer reporting tool with battery life indication

- Separate interlocking ceiling mount plate for easy installation

- Easy to remove with detachment tool

- 100% wireless

- Patented - automatic transmit power level adjustment

- Battery-operated with a minimum three years battery life

- The wireless addressable base enables a mesh network to other devices and to the main panel through the Cygnus Wireless protocol

- Gloss white or red options available

- Multi colour LED status indication

SmartNet
Sounder and Visual Indicator Radio Base

- Certified to EN 54-25 and EN 54-3

- Range of detector heads including optical smoke, heat, and combi sensors

- 32 sounder tones

- Addressable through the SmartNet configuration tool

- Locking detector and base mechanism for enhanced security

- Ultra-low powered device – 3.6v nominal

- Separate interlocking ceiling mount plate for easy installation

- Easy to remove with detachment tool

- 100% wireless

- Battery-operated with a minimum three years battery life

- The wireless addressable base enables communication between the detector and control panel through the Cygnus wireless protocol.

- Gloss white or red options available

- Visual Indicator (VI) ring flashes in alarm mode
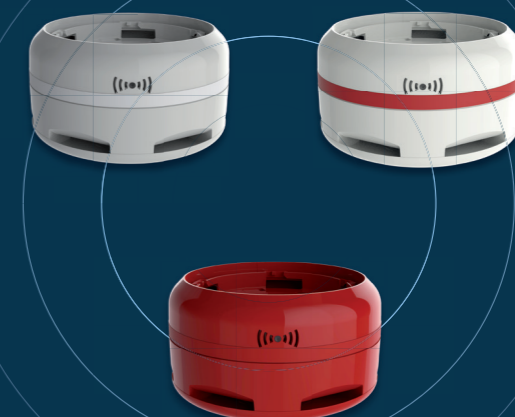
SmartNet
Detector Overview

- Optical smoke detector certified to EN 54-7

- A1R Heat Detector certified to EN 54-5

- Type B Heat Detector fixed temperate certified to EN 54-5

- Combi Optical Smoke & A1R Detector certified to EN 54-5 and EN 54-7

- Standard radio base certified to EN 54-25

- Ceiling VAD and wall VAD - EN 54-23 and EN 54-25 when combined with the appropriate radio base

- Analogue detection with intelligent sensing technology (applicable to Heat detection only)

- Optical Detection with Intelligent sensing Technology (applicable to Optical and Combi only)

- Locking detector and base mechanism for enhanced security

- Ultra-low powered device – 3.6v nominal

- Easy to remove with detachment tool

Independently tested

Intertek
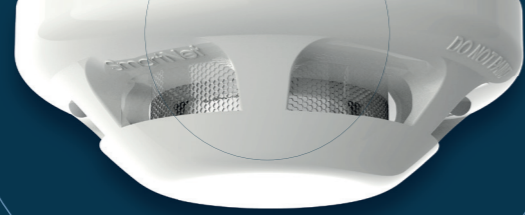
SmartNet
Optical Smoke Detector

The SmartNet optical addressable smoke detectors offer early stage fire detection and use advanced technology to reduce the risk of false alarms. System software provides analogue detector discrimination and each detector features a red LED indicator in alarm mode to help you quickly identify the location of a fire.

Detectors are easily configured and can be programmed into a system using the SmartNet configuration software or by cable.

Each detector features a multi colour LED for status indication and dual fire LEDs for fire indication when in pre-alarm or alarm mode.

SmartNet wireless fire detection and alarm devices are battery-powered and energy-efficient and will operate continuously for a minimum of three years, in accordance with EN 54, when combined with the appropriate radio base.

Independently tested

Intertek

SmartNet
Heat Detector

The SmartNet addressable heat detectors offer early-stage fire detection and use advanced technology to reduce the risk of false alarms.

There are two variants available:

- **Type A1R rate of rise**

- **Type B fixed temperature**

Each detector features a multi colour LED for status indication and dual fire LEDs for fire indication when in pre-alarm or alarm mode.

Detectors can be easily configured and programmed into a system using the SmartNet configuration software.

SmartNet
Combi Sensor Detector

The SmartNet combi sensor technology combines the benefits of both heat and smoke detection in one unit. SmartNet addressable combi sensors offer early stage fire detection and use advanced technology to reduce the risk of false alarms. Optical smoke and type A1R combi sensors also feature a red LED indicator in alarm mode to help you quickly identify an issue.

Like all other SmartNet detectors the combi detector will operate continuously for three years using nothing but battery power, in accordance with EN 54, when combined with the appropriate radio base.
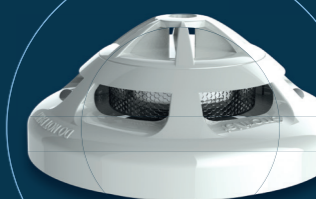
SmartNet

SmartNet
Ceiling–Mounted Visual Alarm Device (VAD)

- Visual alarm device (VAD) certified to EN 54-23 and EN 54-25, when combined with the appropriate radio base

- Ceiling mount configuration – Beacon Type C-3-9

- Addressable through the SmartNet configuration tool

- Locking head and base mechanism for enhanced security

- Ultra–low powered device – 3.6v nominal

- 100% wireless

- Gloss red and white design options
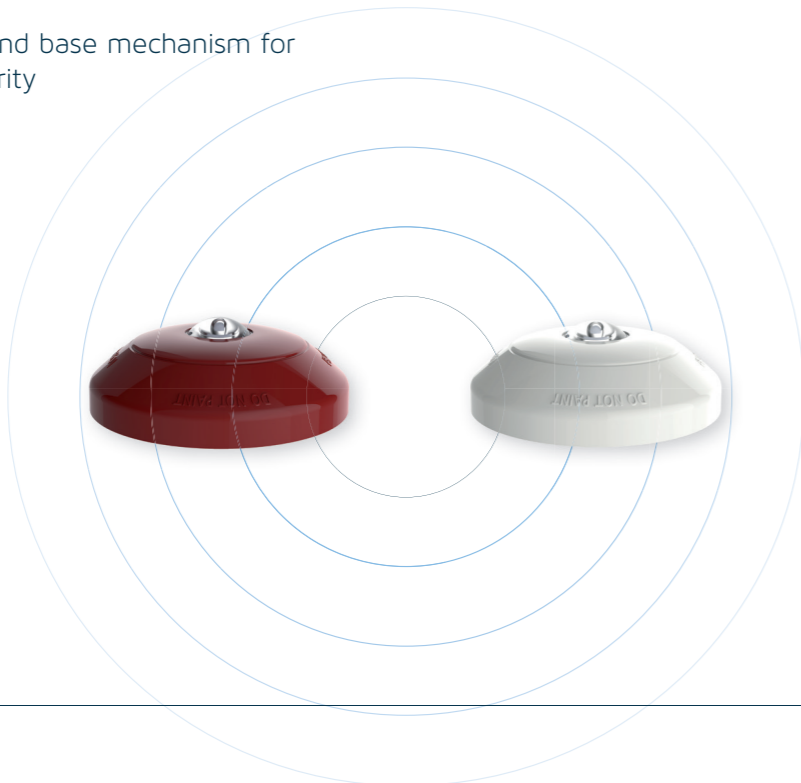
SmartNet
Wall–Mounted Visual Alarm Device (VAD)

- Visual alarm device (VAD) certified to EN 54-23 and EN 54-25 when combined with the appropriate radio base

- Wall mount configuration - Beacon Type W-2.4-7

- Addressable through the SmartNet configuration tool

- Locking head and base mechanism for enhanced security

- Ultra–low powered device – 3.6v nominal

- 100% wireless

- Gloss red and white design options

- Separate interlocking wall and ceiling mount plate for easy installation

SmartNet
Manual Call Point Device

- Certified to EN 54-25 and EN 54-11

- Addressable through the SmartNet configuration tool

- Call point cover which conforms to BS 5839

- Ultra-low powered device – 3.6v nominal

- 100% wireless

- Battery-operated with a minimum three years battery life

- Service engineer reporting tool with battery life indication

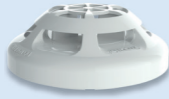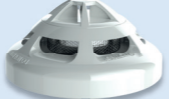- Patented – automatic transmit power level adjustment

- Gloss red design

Independently tested
Intertek

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SmartNet

Wireless Everywhere | 31

SmartNet

Input–Output Device

- Certified to EN 54-25 and EN 54-18

- Addressable through the SmartNet configuration tool

- Ultra-low powered device – 3.6v nominal

- Interface with other fire systems, sensors and detecting devices

- Patented - automatic transmit power level adjustment

- Trigger outputs i.e turnstile, fire door release, speaker systems

- 100% wireless

- Battery-operated with minimum three years battery life

- Two inputs and two outputs
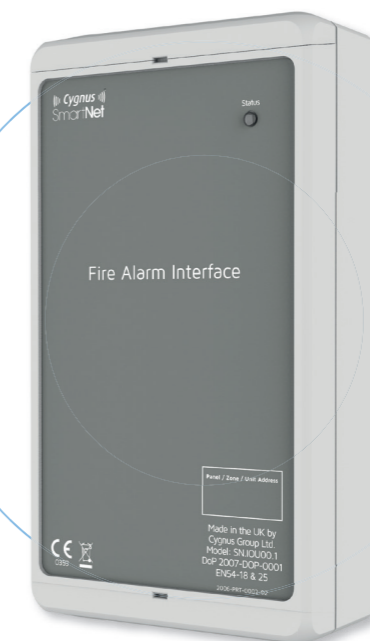
SmartNet

SmartNet
Product Details

	Optical Smoke Detector	A1R Heat Detector (Rate of Rise)	Type B Heat Detector (72°c) Fixed Temp	Combi Sensor Optical Smoke and A1R Detector	Visual Alarm Device (VAD) Wall/ Ceiling – Mounted (Red)	Visual Alarm Device (VAD) Wall/ Ceiling – Mounted (White)	Blanking Plate (Red)	Blanking Plate (White)	Manual Call Point	Input/Output Device	Control Panel
SmartNet-Pro Product Code	SN.DTS0.1	SN.DTH0.1	SN.DTH1.1	SN.DTC0.1	SN.VAD1.2 (W) SN.VAD0.2 (C)	SN.VAD1.1 (W) SN.VAD0.1 (C)	SN.BLP0.2	SN.BLP0.1	SN.MCP0.RB30.2	SN.IOU00.1	SN.CIE20.A SN.CIE30.A
SmartNet-100 Product Code	SN.DTS0.1	SN.DTH0.1	SN.DTH1.1	SN.DTC0.1	SN.VAD1.2 (W) SN.VAD0.2 (C)	SN.VAD1.1 (W) SN.VAD0.1 (C)	SN.BLP0.2	SN.BLP0.1	S1.MCP0.RB30.2	S1.IOU00.1	S1.CIE10.A
Compliance*	EN 54-7 EN 54-25 EN 54-18	EN 54-5 EN 54-25 EN 54-18	EN 54-5 EN 54-25 EN 54-18	EN 54-5 EN 54-7 EN 54-25 EN 54-18	EN 54-23 EN 54-3 * EN 54-25 EN 54-18	EN 54-23 EN 54-3 * EN 54-25 EN 54-18	EN 54-3 EN 54-25 EN 54-18	EN 54-3 EN 54-25 EN 54-18	EN 54-11 EN 54-25 EN 54-18	EN 54-18 EN 54-25 EN 54-18	EN 54-2 EN 54-4 EN 54-18 EN 54-25 EN 54-18
Battery Type	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	2 x 12V 7.0AMH.
Battery Life	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	3 days battery backup
RF Frequency	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz	865–868MHz
Transmit Power	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW	5-10mW
Image											
Weight	560g	560g	560g	560g	560g	560g	560g	560g	560g	780g (inc. battery)	8.35kg (inc. backup battery)

*In accordance with EN 54 certified product combinations,
 see Product Matrix on Pages 38 & 40

SmartNet PRO   SmartNet 100

SmartNet
Radio Base Options

	Standard Radio Base (White)	Standard Radio Base (Red)	Sounder Radio Base (White)		Sounder Radio Base (Red)	Sounder VID Radio Base (White)	Sounder VID Radio Base (Red)	Sounder VID Radio Base (White with red VID ring)
SmartNet-Pro Product Code	SN.RB00.1	SN.RB00.2	SN.RB10.1		SN.RB10.2	SN.RB20.1	SN.RB20.2	SN.RB20.1A
SmartNet-100 Product Code	S1.RB00.1	S1.RB00.2	S1.RB10.1		S1.RB10.2	S1.RB20.1	S1.RB20.2	S1.RB20.1A
Compliance*	EN 54-25	EN 54-25	EN 54-3 EN 54-25		EN 54-3 EN 54-25	EN 54-3 EN 54-25	EN 54-3 EN 54-25	EN 54-3 EN 54-25
Battery Type	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123		3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123	3 x C lithium 1 x CR123
Battery Life	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years		Minimum of 3 years	Minimum of 3 years	Minimum of 3 years	Minimum of 3 years
Radio Frequency	865-868MHz	865-868MHz	865-868MHz		865-868MHz	865-868MHz	865-868MHz	865-868MHz
Transmit Power	5-10mW	5-10mW	5-10mW		5-10mW	5-10mW	5-10mW	5-10mW
Image								

*In accordance with EN 54 certified product combinations,
 see Product Matrix on Pages 38 & 40

SmartNet
Product Matrix
EN 54 Certified Combinations

Cygnus SmartNet PRO	Device Heads	Optical Smoke Detector	A1R Heat Detector (Rate of Rise)	Type B Heat Detector (72°c) Fixed Temp	Combi Sensor Optical Smoke and A1R Heat	Sounder Device / Sounder Plate (Red)	Sounder Device / Sounder Plate (White)	Visual Alarm Device (VAD) Wall-Mounted (Red)	Visual Alarm Device (VAD) Wall-Mounted (White)	Visual Alarm device (VAD) Ceiling-Mounted (Red)	Visual Alarm Device (VAD) Ceiling-Mounted (White)
Device Bases		SN.DTS0.1	SN.DTH0.1	SN.DTH1.1	SN.DTC0.1	SN.BLP0.2	SN.BLP0.1	SN.VAD1.2	SN.VAD1.1	SN.VAD0.2	SN.VAD0.1
Image											
SN.RB00.1 Standard Radio Base (White)		✔	✔	✔	✔	✗	✔	✗	✔	✗	✔
SN.RB00.2 Standard Radio Base (Red)		✗	✗	✗	✗	✗	✗	✔	✗	✔	✗
SN.RB10.1 Sounder Radio Base (White)		✔	✔	✔	✔	✗	✔	✗	✔	✗	✔
SN.RB10.2 Sounder Radio Base (Red)		✗	✗	✗	✗	✔	✗	✔	✗	✔	✗
SN.RB20.1 Sounder VID Radio Base (White) White VID Ring		✔	✔	✔	✔	✗	✔	✗	✗	✗	✗
SN.RB20.1A Sounder VID Radio Base (White) Red VID Ring		✔	✔	✔	✔	✗	✔	✗	✗	✗	✗
SN.RB20.2 Sounder VID Radio Base (Red)		✗	✗	✗	✗	✔	✗	✗	✗	✗	✗

SmartNet-100
Product Matrix
EN 54 Certified Combinations

Cygnus SmartNet 100	Device Heads	Optical Smoke Detector	A1R Heat Detector (Rate of Rise)	Type B Heat Detector (72°c) Fixed Temp	Combi Sensor Optical Smoke and A1R Heat		Blanking Plate (Red)	Blanking Plate (White)	Visual Alarm Device (VAD) Wall-Mounted (Red)	Visual Alarm Device (VAD) Wall-Mounted (White)	Visual Alarm device (VAD) Ceiling-Mounted (Red)	Visual Alarm Device (VAD) Ceiling-Mounted (White)
Device Bases		SN.DTS0.1	SN.DTH0.1	SN.DTH1.1	SN.DTC0.1		SN.BLP0.2	SN.BLP0.1	SN.VAD1.2	SN.VAD1.1	SN.VAD0.2	SN.VAD0.1
	Image											
S1.RB00.1 Standard Radio Base (White)		✔	✔	✔	✔		✘	✔	✘	✔	✘	✔
S1.RB00.2 Standard Radio Base (Red)		✘	✘	✘	✘		✘	✘	✔	✘	✔	✘
S1.RB10.1 Sounder Radio Base (White)		✔	✔	✔	✔		✘	✔	✘	✔	✘	✔
S1.RB10.2 Sounder Radio Base (Red)		✘	✘	✘	✘		✔	✘	✔	✘	✔	✘
S1.RB20.1 Sounder VID Radio Base (White) White VID Ring		✔	✔	✔	✔		✘	✔	✘	✘	✘	✘
S1.RB20.1A Sounder VID Radio Base (White) Red VID Ring		✔	✔	✔	✔		✘	✔	✘	✘	✘	✘
S1.RB20.2 Sounder VID Radio Base (Red)		✘	✘	✘	✘		✔	✘	✘	✘	✘	✘

Countless features
endless possibilities

- EN 54 certified and compliant with the Construction Products Regulation (CPR 305/2011)

- System can be designed, installed and commissioned to BS 5839

- Patented self forming and self healing mesh Cygnus Technology

- Innovative channel hopping technology across 10 frequency channels

- Patented Cygnus wireless protocol

- Configuration software allows a user to design and build a network of devices with complex cause and effect rules

- 64 and 96 zone panel options and up to 511 devices available with SmartNet-Pro

- Network up to five panels with the SmartNet-Pro range

- 32 zone panel option and up to 100 devices available with SmartNet-100

- Automatic sounder test mode

- 100% wireless mesh network with bi-directional communication technology

SmartNet

(((Cygnus)))®

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