



WES+

Wireless fire alert system for construction
site safety

RAMTECHGLOBAL.COM

Designed for construction

WES+ is the tried and trusted construction and site evacuation system developed by the fire experts at Ramtech Electronics. Providing a reliable and effective solution to protect your site against fire, the WES+ alarm system has grown to become the system of choice for the UK construction industry. Developed specifically for use in construction, WES+ can be installed rapidly, operated easily, and then redeployed to your next site once the current project has completed.

Developed in partnership with two of the UK's leading construction contractors, WES+ really was been designed by Construction, for Construction.

The system can be deployed in the earliest stages of the construction programme, and is robust and reliable enough to survive for the duration of the project.

All components in the WES+ range come with full certification from Intertek, covering all applicable parts of EN54, including BS EN 54-25:2008 which covers the use of wireless radio alarm systems.

This means that WES+ meets the system requirements of the Construction Products Regulation, which is now a legal requirement that must be complied with.

The WES+ range



WES+ key features at-a-glance

- Designed specifically to meet the demanding environment of modern construction sites
- Full 2-year manufacturers warranty on all new units, based on proven reliability of the system
- A completely wireless system that has been fully certified by Intertek to meet EN54-25
- Designed specifically to meet the demanding environment of modern construction sites
- Global track record, with WES+ systems now operating in over 20 countries around the world
- Meets key legislation and relevant fire safety standards, including CPR, HSG168 and JCoP





WES+ at a glance

High performance

The system uses Category 1, Euro-harmonised radio in compliance with European standards covering the use of radio technology in emergency equipment (ETSI 300-220-1).

Robust and reliable

WES+ is independently tested, CE marked and compliant with all key safety legislation. Our robust and hard-wearing units are suitable for internal or external use, with weather sealing and a 3-year battery life under normal use.

User friendly

Your site system can have an unlimited number of units on one site, additional units can be quickly added or removed as the build progresses. All WES+ units can be reused on future projects.

This very low-maintenance system is simple to install, configure and operate and our Quick Start Guide allows users to get the system up and running in minutes.

Internationally recognised

The WES range has grown to become a truly global alarm system, currently protecting sites in nearly 30 countries around the world. Using our innovative radio technology, WES+ has been developed to satisfy all applicable Radio and Communications legislation in international territories, including the relevant parts of ETSI, FCC and EMC test standards, as well as achieving full EN54-25 certification.

Proven technology

With an excellent track record of performance, all WES+ units are designed and manufactured in Nottingham UK, and shipped worldwide, with over 100,000 units supplied globally since launching in 2014.

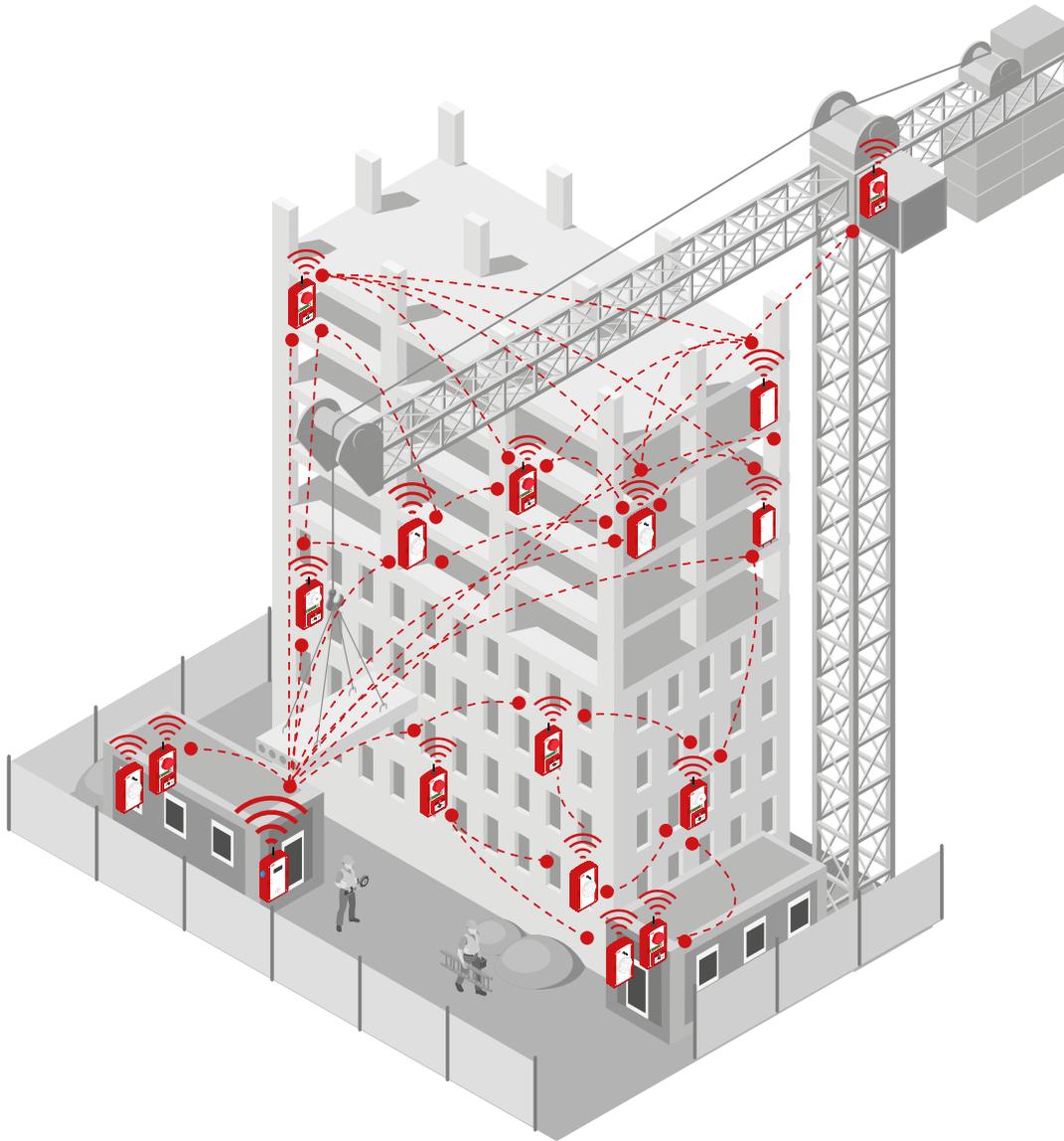
Fully supported

Our dedicated helpline and training team are always on hand to support you, from introductory training and workshops for your site staff through to system trouble shooting, our team are with you every step of the way.

Cost-effective

The completely wireless units connect on site to form a secure and stable radio mesh network with no need for specialist wiring, cabling or external power.

WES+ system components



Base Station

Delivers extensive system reporting and system configuration. In addition to immediate notification of an alarm, the unit records activations and warnings allowing you to monitor the whole WES+ system from this unit.



Call Point

The primary alert unit in the WES+ range. The unit incorporates a fire alarm sounder, optional strobe alert, and a manual call point for activating the alarm. Simple and easy to use, this unit also includes tamper controls to ensure system integrity and compliance.



Smoke and Heat Detectors

These units connect directly to the WES+ system and automatically raise the alarm in the event of a fire. Unique to WES, dust resistant smoke detection units are also available for maximum performance in construction environments.



Interface

The WES+ fire alarm interface lets you connect your WES+ temporary fire alarm to other systems, such as turnstiles, so that you can ensure your emergency systems are working together as efficiently as possible to protect your site.



Link Unit

A simple repeater unit that boosts the radio signal capability range in particularly large, complex or high density sites.

SECURITY



Deploying WES+

WES+ units are all available to buy or rent and can be deployed as soon as the cabins are on site and the build is out of the ground. Setup is quick and easy – it takes just a few minutes for your units to be on active duty protecting your site and workers.

Units are placed in accordance with your fire plan – usually at each stairwell or lift shaft – and can be added as the build progresses. Units can be numbered according to your fire plan for easy identification in the event of any issues. Heat, smoke or dust resistant smoke detectors provide active fire protection in enclosed areas.

All your WES+ units connect to form a network, so if a fire breaks out any unit can trigger a site-wide alarm, whether automatically in the case of the detection units or manually via the Fire Call Points.

The Base Station will tell you where the triggering unit is located so you can pinpoint the fire or medical situation.

Install to BS5839 to protect Temporary Accommodation on site. Because it's certified to EN54, WES+ can be installed to BS 5839-1, ensuring compliance with HSG168 for Fire Alarms in Temporary Accommodation Units.



WES+ compliance

WES+ is designed and engineered to create a fire safety system that's compliant with increasingly stringent health and safety practice.

Fire protection association joint code of practice

The Fire Protection Association/Construction Confederation, with the support of the Association of British Insurers, the Chief Fire Officers Association, and the London Fire Brigade, specifies best practice for timber framed buildings, including "components for automatically detecting a fire, initiating an alarm" and "weekly testing of the fire alarm".

HSE fire safety guidelines for construction sites (HSG168)

HSG168 expresses the importance of an "inter-connecting system of call points and sounders" for alerting a busy construction site to the need to evacuate.

European standards covering the use of radio technology in emergency equipment (ETSI 300-220-1)

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HSE fire safety guidelines for construction sites (HSG168)

With its EN54 certification the WES product range can be installed to BS5839, delivering the ability to provide protection for temporary accommodation units as soon as they're on site at the very start of your project.

Structural timber association guidelines

The Structural Timber Association's 16 Steps to Timber Frame Construction document explicitly recommends the use of a product with linked "detection devices strategically placed around the structure to provide the earliest possible detection of fire" in construction and refurbishment projects involving timber frame buildings.

The construction products regulation

The Construction Products Regulation states that:

- Fire safety products must be CE marked
- To obtain a CE mark, a Declaration of Performance must be produced
- To obtain a Declaration of Performance, fire safety products must be tested by an approved external body
- That body must be involved in inspection, testing and factory production control

European standards for fire products - EN54

EN54 is the Harmonised Standard which sets the design, manufacture and performance standards required for construction fire safety products. Every product in the WES+ range has been externally tested, approved and certified by a notified body as complying with the relevant sections of EN54.





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