



WES

WES³

**Enhanced wireless fire and medical alert
for construction site safety**

INTRODUCING WES³

WES³ is the latest in fire and emergency alarm system innovation developed by the fire experts at Ramtech Electronics. Certified to EN54, this advanced alarm system has been developed to provide a simple, fast and secure method of communicating fire and medical emergencies in the complex environment of construction sites.

The most advanced system we have produced, WES³ has been created to safeguard your personnel and property:

- **Designed for construction**
To develop WES³, our team of radio and electronics experts worked in direct collaboration with some of the UK's leading construction companies.
- **Built to last**
Our WES³ units are covered by a full 2 year manufacturer warranty, and have a 3-year battery life under normal conditions and usage.
- **Fully certified to EN54**
All WES³ units have been independently tested by Intertek, and certified to the relevant parts of EN54, including EN54-25 which applies to wireless radio devices used in fire alarm systems.
- **Compliant with key safety standards**
With EN54 certification in place, WES³ can help your project comply with HSG168, the Fire Protection Association Joint Code of Practice and BS 5839-1.

The brand-new features for WES³ include:

- **Medical alert** - Raise a request for medical attention from any call point in the network, which pinpoints the exact location of the alert.
- **System Polling** - Polling mode provides an integrity test of your WES³ network, confirming any additional or removed units.
- **Inspection delay** - Enables site managers to validate an alarm before evacuating site. It can also be used to undertake a staged evacuation process.
- **Pre-alarm functions** - Turn off the alarm sounder on other stations and enable a lower level alert to indicate there is an issue without triggering a full evacuation.
- **Full isolation system test mode**
Test individual alarm points without the need to trigger the entire system.



WES³ 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).

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.

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 WES³ 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.

Robust and Reliable

WES³ 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.

Proven Technology

With an excellent track record of performance, all WES³ units are designed and manufactured in Nottingham UK, and shipped worldwide, with over 60,000 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.

Internationally Recognised

The WES range has grown to become a truly global alarm system, currently protecting sites in over 20 countries around the world. Using our innovative radio technology, WES³ 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.



WES³ SYSTEM COMPONENTS

STROBE AND SOUNDER CALL POINT

Manual Call Point allows a fire alarm to be raised from any unit on site, to initiate a site-wide alarm (or activate optional pre-alarm function). It also includes Medical Alert.



DUST RESISTANT SMOKE DETECTOR

Unique to WES, the dust resistant detector with dual optic technology minimises risk of false alarms and provides 24/7 protection in unoccupied areas of site or overnight/weekends.



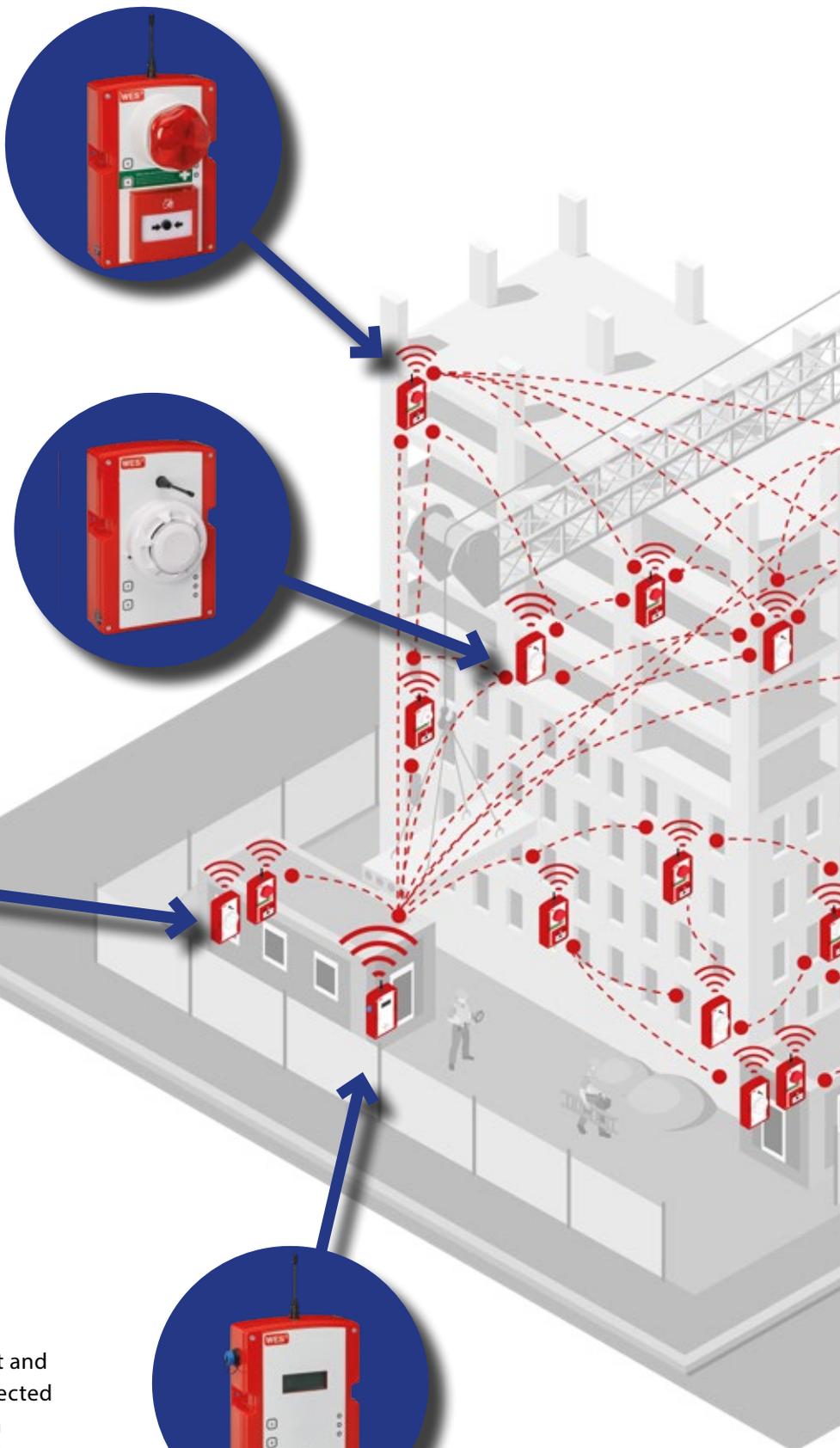
HEAT DETECTOR

Used as part of a site-wide detection system, this 24/7 technology is suitable for areas such as kitchens or similar areas with an increased risk of false alarms.



WES³ BASE STATION

Primary control unit for the WES³ network. Enables full management and real-time diagnostics for any connected units. An accurate log of all system events can be downloaded via USB to allow robust reporting of on-site issues.



DEPLOYING WES³

WES³ 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.

LINK UNIT

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



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 unique dust resistant smoke detectors provide active fire protection in enclosed areas.

All your WES³ 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 / Medical Call Points.

The Base Station will tell you where the triggering unit is located so you can pinpoint the fire or medical situation. You can also set up text alerts to help you provide an immediate response, and if you have the WES app you can export reports of your silent test results and any activations to PDF or spreadsheet for full reporting and tracking.

For even greater data, ask us about WES REACT - a cloud-based system giving you unrivalled access to your system.

Once the project is complete, you can easily re-use your WES³ units on the next one.

Install to BS5839 to protect Temporary Accommodation on site. Because it's certified to EN54, the WES³ product range can be installed to BS5839, enabling compliance with HSG168 for Fire Alarms in Temporary Accommodation Units, so cabins can be protected as soon as they're on site.

INTERFACE

Allows WES to be seamlessly integrated with third party systems, such as independent or permanent wired fire alarms, turnstiles, lifts, gas monitors etc.

WES³ COMPLIANCE

WES³ is designed and engineered to create a fire safety system with medical alert that's compliant with increasingly stringent health and safety practice.

The system enables you to be fully compliant with:

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)

European guidelines on the use of radio technology in emergency equipment specify the use of the highest-level Category 1 receivers, as used in WES³, in "human life inherent systems".

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.

BS5839

Because it's certified to EN54, the WES³ 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.

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 WES³ range has been externally tested, approved and certified by a notified body as complying with the relevant sections of EN54.



ABOUT RAMTECH

Ramtech - the wireless innovation behind WES³. Ramtech is the UK market leader in the provision of innovative wireless technology. The ground-breaking products in our WES range are built on over 25 years' experience in designing and manufacturing radio-based safety and security solutions to meet challenging environmental conditions in the construction industry. Developed with direct input from the industry, we supply thousands of units to protect key sites for over 75% of the top 100 UK construction firms every year.

CONSTRUCTION EXPERTISE

WES³ was developed by Ramtech in conjunction with two of the largest construction companies in the UK. We continue to work closely with key players in the industry, so we're confident that we understand exactly what you need from a temporary fire alarm system.

ENGINEERING INVESTMENT

Engineering is at the heart of Ramtech. It's our business to innovate, so we invest in the best possible staff, resources and test procedures to make sure that our research and development programme continues to deliver the superlative, market-leading wireless safety and security solutions on which we pride ourselves.

UK DESIGN AND MANUFACTURE

We're proud to have designed the WES³ system in-house in our headquarters in Nottingham, UK. It's manufactured in and distributed from the UK too.

SUPERIOR SUPPORT

We'll make sure you have full support with your WES³ system. Our experts will work with you to make sure you fully understand the system – we'll even run internal training workshops for your site staff if you need us to! And of course, if you need a helping hand you can give our WES³ hotline a call and speak to our WES³ experts.

ISO9001 CERTIFIED

We take quality seriously – as demonstrated by our status as ISO9001 Certified. At every step of the way, throughout every department and at every level of the business, we deliver efficiently, consistently and effectively to a high set of service, process, production and management standards.





"As this site is using timber frame construction and is spread over such a large area providing adequate fire protection could have been difficult but Ramtech's WES system has been the perfect solution and is proving to be simple and effective to use."

**Gary Simister, Site Manager at Longbridge,
Morgan Sindall**

"The robust easy to use, high performing WES system has coped with the site situation very well. Being able to pick up and move the alarms quickly, in the full knowledge it would cope with the surroundings, made life easy."

**Richard Abrahams Health Safety and
Environmental Manager for the Midlands, South
Wales and Southern Region, Lovell**

"The best and most cost effective system on the market today without doubt. The quick installation and simple testing facility gives you peace of mind enabling health and safety requirements to be met."

Ben Buttarazzi, Health & Safety Manager, Kier

Ramtech
electronics

WES

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