



# WES3 Product Brochure







PRODUCT OVERVIEW

# WES3 Wireless Evacuation and Emergency System

Fire, evacuation and medical alert system for a wide range of temporary applications.

WES3 is a completely wireless system designed to provide a simple, fast, and secure method of communicating and notifying personnel in the event of a site emergency. Fully wireless and battery-operated, WES3 can be rapidly deployed and remotely monitored without the need for cabling or mains power. When integrated with REACT, the system offers enhanced real-time alerts and monitoring capabilities. Whether for void properties or sprawling construction sites, WES3 can be easily customized to handle it all.



The WES3 system has been designed to offer a practical and economical wireless emergency alert solution.

- Simple to set up, install, and reposition

- Easily integrates with other systems
- 4G connectivity for offsite communication
- Remote monitoring via REACT



### Connect Control Unit

Connect is the real brains behind the WES3 system, enabling full management and real-time diagnostics and alarm activations for any connected unit in the network.



#### **Manual Call Point**

The Manual Call Point allows a fire or evacuation alarm to be raised from any unit on-site, initiating a site-wide alarm. It also includes a medical alert button for immediate medical assistance.



#### **Heat Sensor**

Incorporating heat sensors into your WES3 network allows for automatic 24/7 fire detection. These sensors are ideally suited for locations where smoke sensors may not be effective.



#### **Smoke Sensor**

Incorporating dust-resistant smoke sensors into your WES3 network provides early fire detection while eliminating false alarms caused by dust.



#### Interface

Allows WES3 to seamlessly integrate with third-party systems, such as permanent fire alarms, Building Management Systems, standpipe flow switches, and more.



#### Link

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



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### **WES3 Manual Call Point**

Our wireless evacuation alarm system provides a costeffective solution to protect both people and property.

WES3 Manual Call Point is a versatile three-in-one unit, allowing you to raise evacuation, fire, and medical alerts from a single device with a simple button press. Strategically positioned across the site, they create a secure mesh network for site-wide alarms. Each unit is numbered for easy identification, and adding, removing, or cloning units is straightforward.

Designed for indoor and outdoor use under IP55 conditions, these call points are typically placed in prominent locations like main escape routes, stairwells, and near fire points, ensuring visibility and accessibility during emergencies.



### **Call Point**

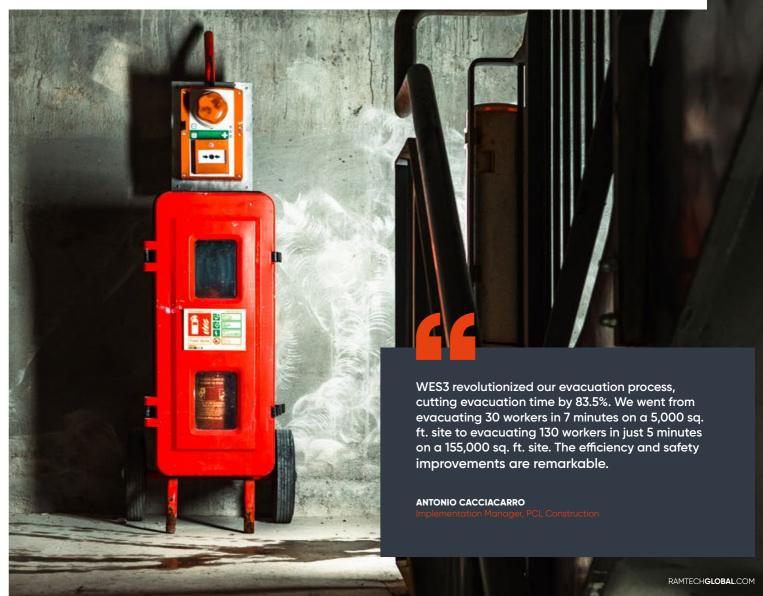
The WES3 Manual Call Point is the primary alert unit in the WES3 range. This versatile unit features a powerful 94dB(A) horn, bright strobe lights, and both a manual call point and medical alert button, ensuring comprehensive alarm activation and safety communication on-site.

### **Raising The Alarm**

To raise a fire or evacuation alarm, simply press any call point in the network. This action initiates a site-wide alarm or activates the pre-alarm function. The WES3 Connect control panel then notifies the user of the exact location where the alarm was triggered, enabling quick identification of the search area.

#### **Integrated Medical Alert Button**

The integrated medical alert button allows all personnel to raise an alert when medical assistance is required, immediately notifying first aiders.





### **WES3 Connect Control Unit**

# Connect is an enhanced emergency control unit that uses 4G data connectivity to deliver real-time alerts.

WES3 Connect Control Panel is the central hub for managing and monitoring all WES3 units on-site. This advanced control unit can capture data from up to 999 devices across your site, providing continuous updates on active alarms, low battery warnings, and signal failures, ensuring you stay informed about the status of your site at all times.

When integrated with the REACT Emergency Notification System, it offers enhanced functionality, allowing you to monitor alarm activations from anywhere in the world through the REACT mobile app. This integration provides real-time alerts and a graphical map for easy identification of alarm locations. Additionally, the system maintains a traceable event log stored in the cloud for comprehensive auditing and incident investigation.





### **REACT**

#### **Emergency Notification System**

Real-time alerts

Receive real-time alerts for any alarm activations, whether you are on-site or off-site.

Visibility of alarm activations

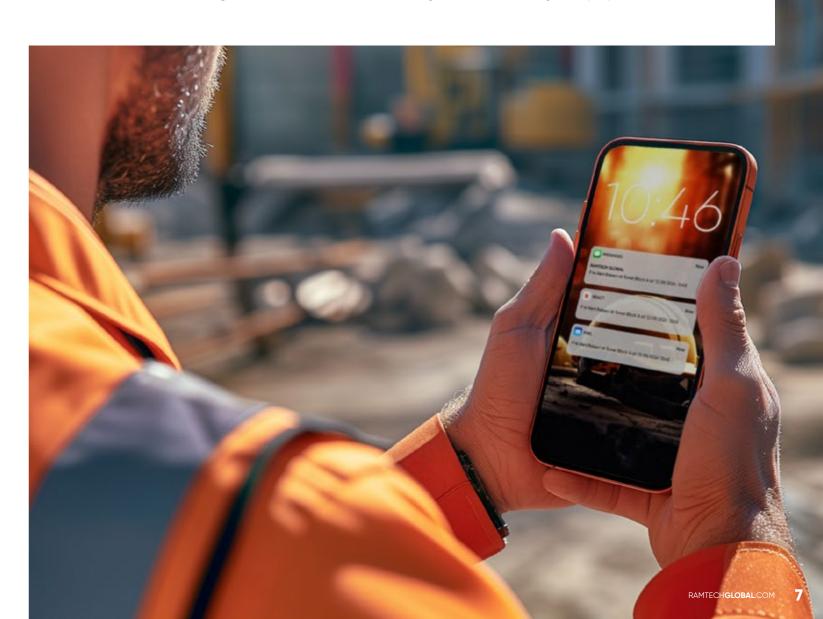
The graphical map on the REACT app provides quick and easy identification of the position where any activations, faults, or issues occur.

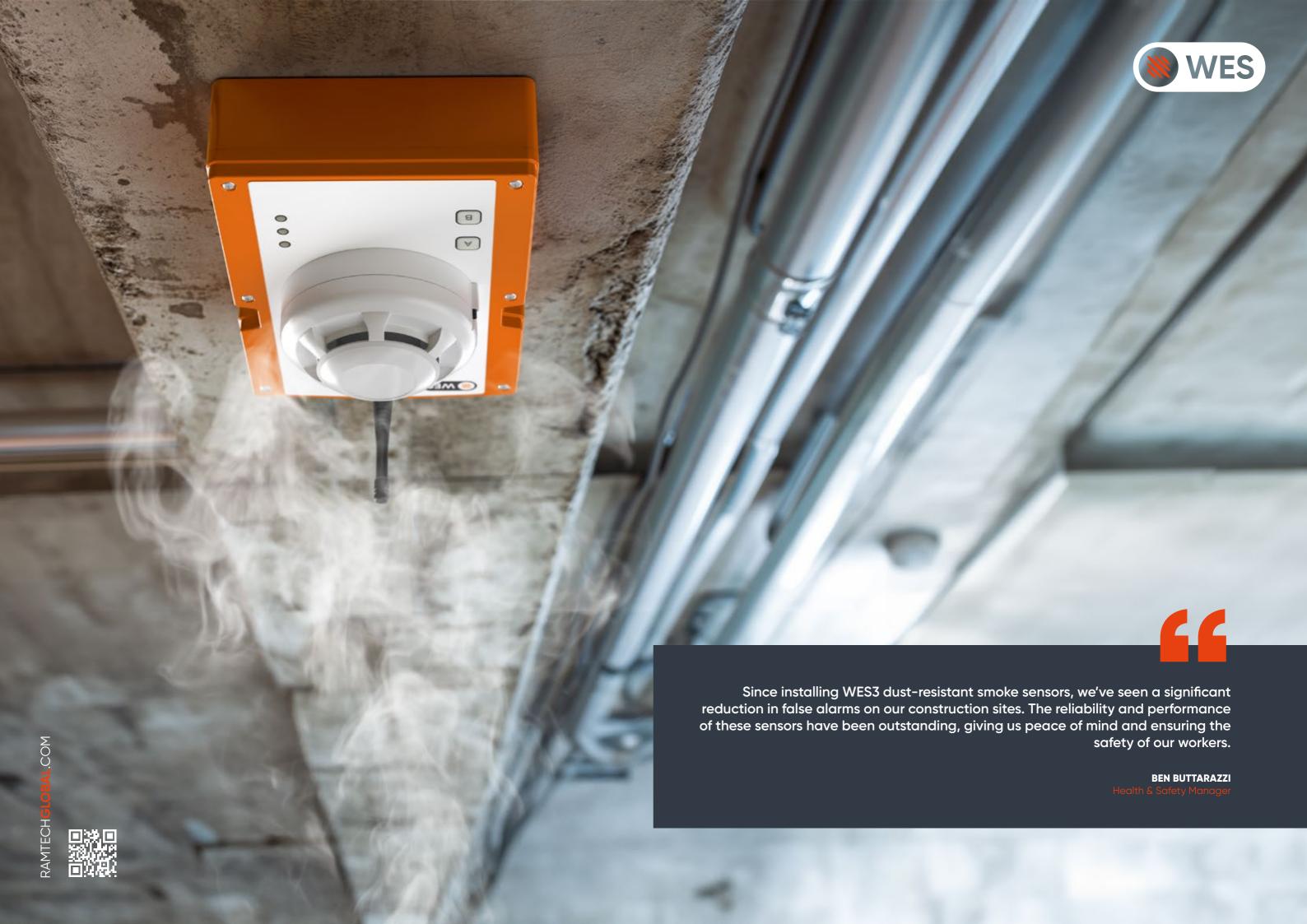
Third-party integration with monitoring stations

WES3 can send alerts automatically via the REACT cloud to a dedicated monitoring center, which can notify named key holders in the event of an alarm activation.

Traceability and auditability

A traceable event log is stored on the cloud for auditing or incident investigation purposes.







# Wireless Heat & Smoke Sensors

Incorporating heat and smoke sensors into the WES3 network provides automatic detection 24/7

Our wireless, dust-resistant smoke and heat sensors provide constant monitoring and early detection of smoke and fire, which is especially crucial during non-working hours when personnel are absent. These sensors seamlessly integrate with the WES3 system, automatically triggering alarms in the event of a fire. When combined with REACT, all registered personnel receive real-time alerts, including the activated alarm unit's location.

#### Smoke Sensor

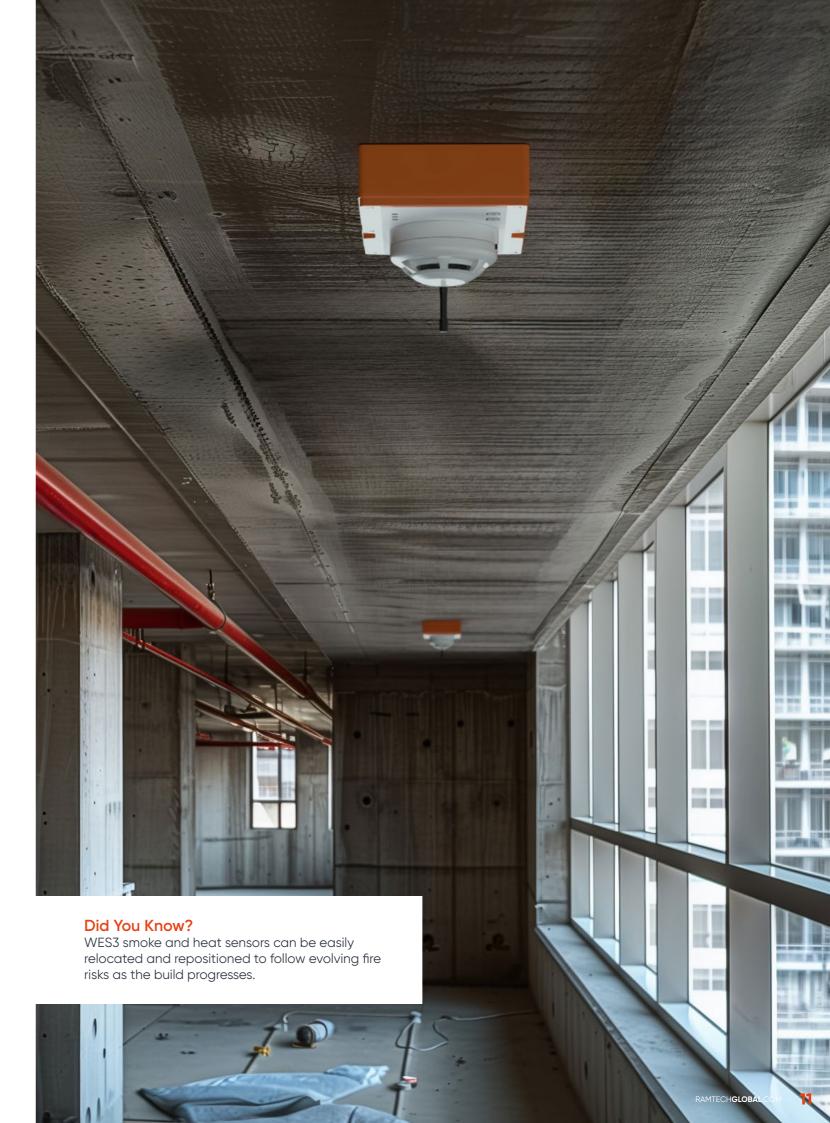
The smoke sensor units have an individual coverage radius of 25 feet and can differentiate between smoke and dust particles, ensuring accurate detection and minimizing



#### Heat Senso

The heat sensor activates at a temperature of 135°F and has an individual coverage radius of 17.5 feet.







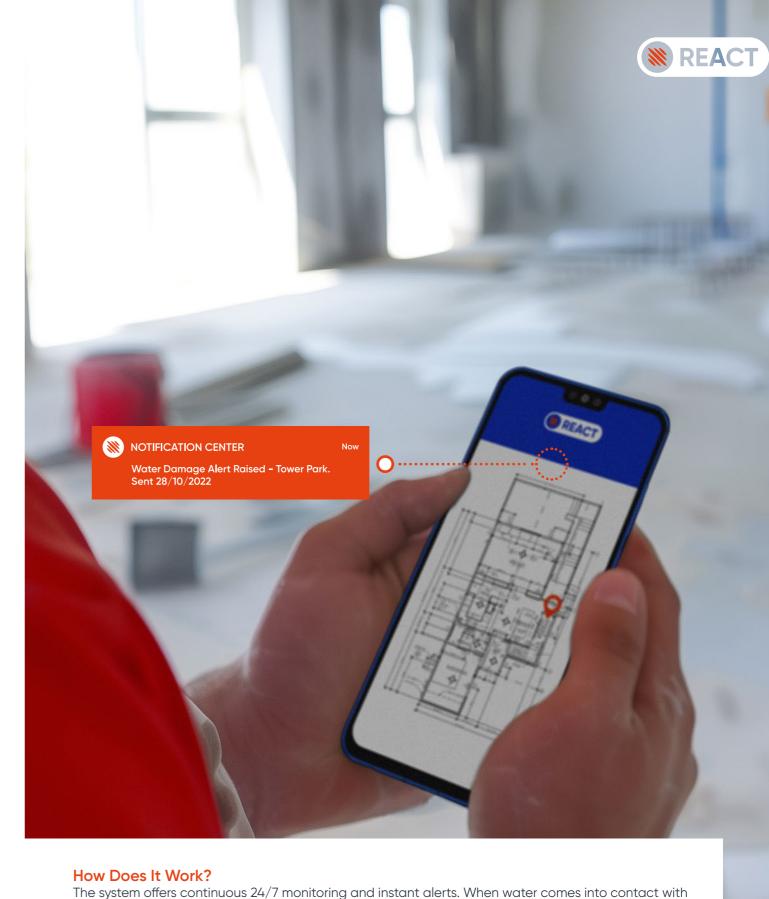
# Wireless Water Leak Detection Solution

Cost-effective water leak detection solution with real-time alerts.

Water leaks and flooding can originate from various sources, such as frozen pipes, damaged pipework, burst pipes, and loose fittings. Ramtech's water leak detection solution mitigates these risks by sending real-time alerts about leaks before they cause significant damage, thereby reducing downtime and preventing costly repairs. Strategically placed water leak detection sensors throughout your site or facility provide robust protection against potential water damage.







The system offers continuous 24/7 monitoring and instant alerts. When water comes into contact with the detection cable or tape, the sensor activates the WES3 Water Interface unit, transmitting data to the WES3 Connect Control Panel and the REACT Emergency Notification System. Relevant personnel are immediately notified via text message, email, or the REACT mobile app.



## Interface

### Easily connect your WES3 system to other systems on-site.

The interface enables seamless integration of your WES3 system with various on-site systems, including permanent wired fire alarms, access control, and standpipe flow switches. This versatile unit is ideal for a wide range of projects, from new builds to extensive renovations. It is designed to communicate effectively with most commonly used technologies in existing buildings, construction projects, and site cabins.









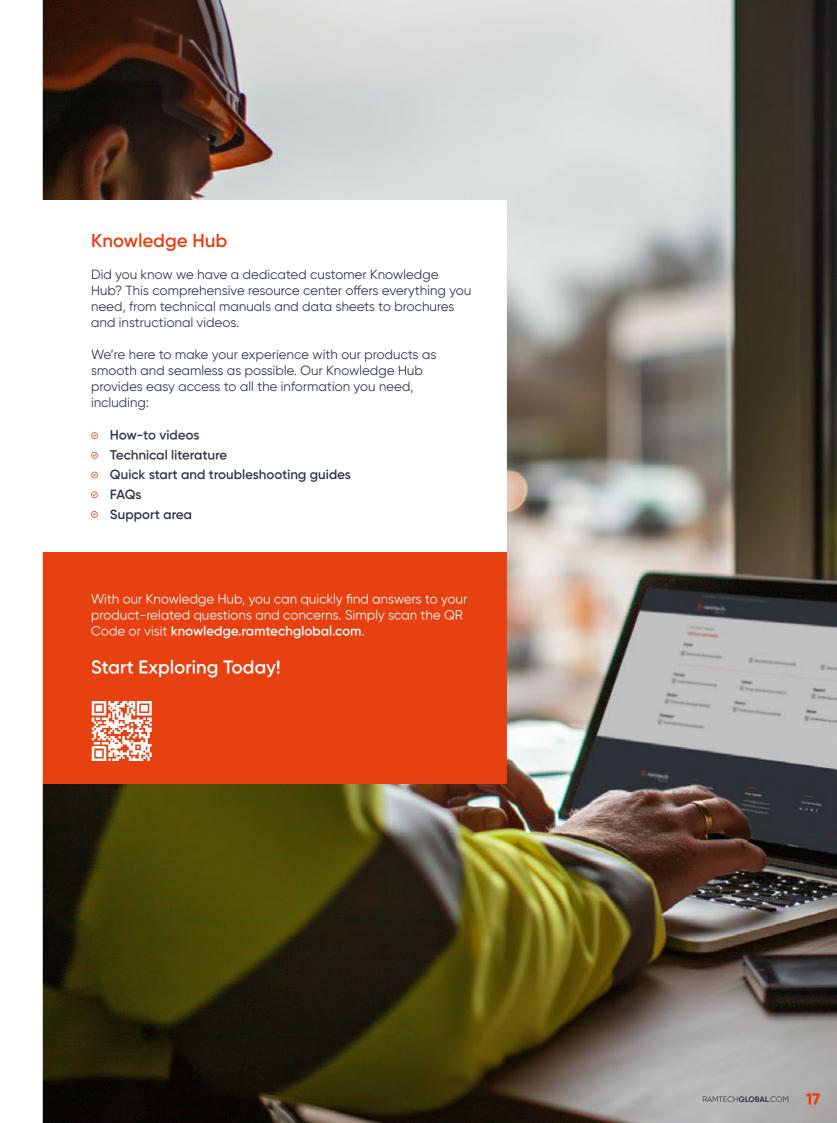
#### **TECHNICAL**

# The System

### **Technical Information**

WES3 system has grown into a global leader in site safety, currently safeguarding projects in over 30 countries. Utilizing advanced radio technology, WES3 complies with all relevant international radio and communications regulations, including IC, ETSI, FCC, and EMC standards. The system is independently tested, CE marked, and adheres to all key safety legislation, guaranteeing top-tier reliability and security.

	Dimension (mm)			Compatible With	Operating Temperature (°F)
Call Point (Strobe & Sounder)	235x161x128*	IP55	94 dB(A)	Other WES3 Units	-13.0 to 158.0
Heat Sensor	235x161x118*	N/A	N/A	Other WES3 Units	-13.0 to 158.0
Dust-resistant Smoke Sensor	235x161x108*	N/A	N/A	Other WES3 Units	-13.0 to 158.0
Interface	235x161x58**	N/A	N/A	Relay input/ output to connect to additional systems	14.0 to 131.0
Link	235x161x58*	N/A	N/A	Other WES3 Units	-13.0 to 158.0
Base Station	235x161x128*	N/A	N/A	Other WES3 Units	-13.0 to 158.0
Connect	235x161x128*	N/A	N/A	Other WES3 Units	-13.0 to 158.0







CONNECTIVITY

# Wireless Mesh Radio Technology

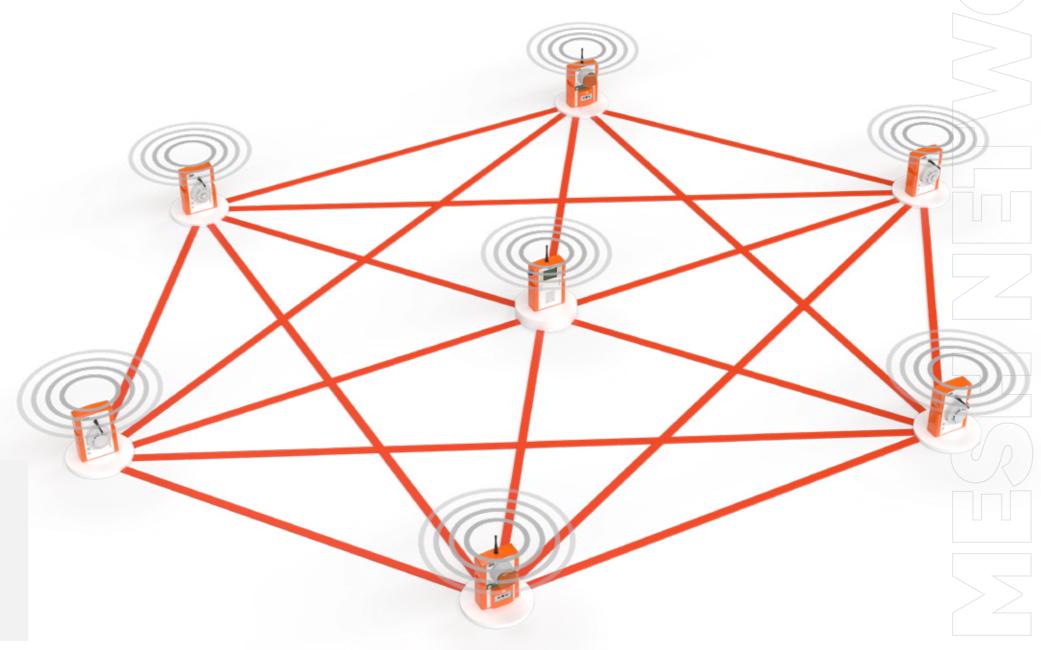
WES3 system is fast becoming the solution of choice for many applications.

WES3 is specifically designed for use in dense concrete and steel structures, as well as areas with numerous competing radio frequencies. Utilizing advanced flooded mesh radio technology, all units in the WES3 network communicate seamlessly, ensuring multiple paths for activation signals. This design provides exceptionally long-range connections and greater distances between units, guaranteeing reliable performance even in challenging environments.

## Advantage of a wireless alarm system:

The enormous flexibility and endless combinations of wireless units make wireless a sound choice.

- Minimal Disruptio
- Quick Installation
- Easy to Maintain
- Fully Addressable
- Easy to re-locate / move



#### **Zero Point of Failure**

If any unit in the network fails, the system automatically reroutes the transmission path, ensuring continuous communication and reliability.

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#### **Job Stories**

Read our latest job stories on our website by scanning the QR code.



#### Construction

Construction sites are inherently dangerous, making robust safety measures essential to protect staff, property, and equipment. The WES3 system has been deployed at high-profile locations such as the Maryland Naval Academy new build, Amazon Distribution Centers, and the Colony Island Hospital renovation project, ensuring comprehensive protection against fires and other incidents.



#### Shipyards & Shipbuilding

Safety is paramount in the specialized world of shipbuilding and maintenance. The WES3 emergency fire and evacuation alarm system provides early warnings of potential fires, protecting valuable equipment and employees across various sites.



#### **Historical Buildings**

The preservation of heritage buildings is crucial due to their cultural, historical, and architectural value. Ensuring these structures are safe from fire hazards is vital. WES3 has been used to protect notable sites like Nottingham Castle, the Oslo Parliament Building, and the Palace of Versailles-Trianon.



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Ramtech solutions are designed to provide innovative wireless site safety solutions across various industries, from construction to historical sites. With over 30 years of expertise in communications and hardware, our solutions enhance safety, security, operational efficiency, and data insights for your business. All our solutions are supported by extensive assistance from our office and field-based teams.



### **Manufacturing Plants**

Our wireless safety solutions have been utilized by numerous manufacturing plants, including pharmaceutical and automobile facilities, across North America, the EU, and beyond, particularly during construction, renovation, or restoration.



#### Rail

Due to stringent health and safety requirements across railway infrastructure, from underground stations to freight depots, Ramtech's technology is a vital asset. The WES3 and REACT systems have been successfully deployed on projects like HS2, Crossrail, London Underground, and more.



#### **Airports**

Ramtech technologies, including WES3 and REACT, have been utilized in airport expansion projects at locations such as Manchester, Schiphol, and Pittsburgh airports. These solutions are ideal for complex, dynamic sites like airports, where the health and safety of workers and the public are paramount.

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