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Adisan Systems

Futuristic Solutions for Complex Safety Challenges



Military & Defence



Fire Risk Assessment
& Fire Safety



Custom Software Development
& Consulting & Advisory



Fire Detection

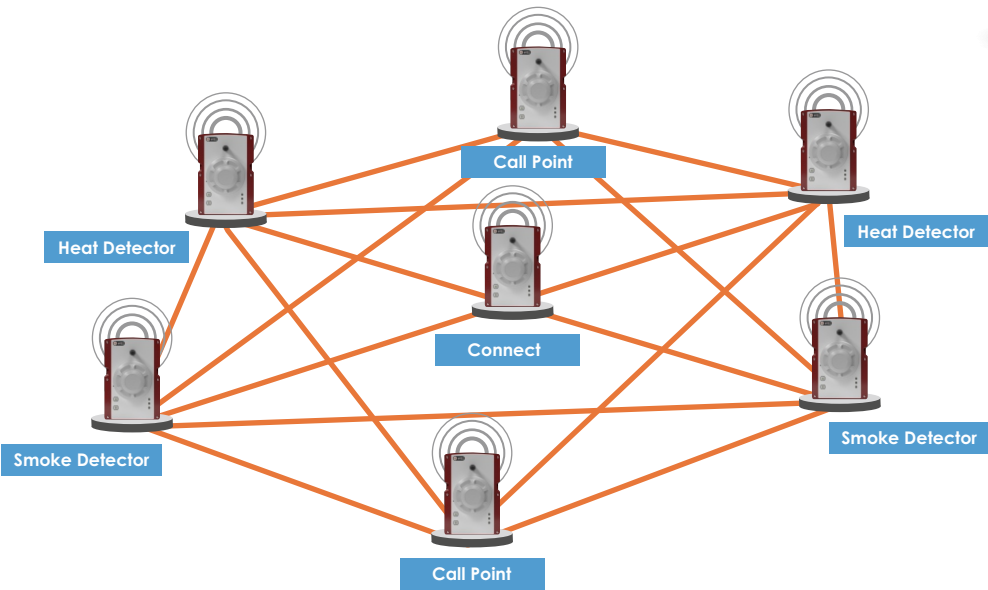


Foam Suppression



Model Numbers

W3M-DET-SMD-N,
W3M-DET-SMP-N



Device Parameters

Dimensions (mm) HxWxD

235 x 161 x 108
(excl. Antenna 81mm)

Weight

1.6kg

Operating Temperature

-25°C to +70°C

Humidity

Relative humidity >95%
non-condensing
(25°C to 55°C)

Conformance

EN54-7; EN54-2

Supply Parameters

Operating Voltage Range

4.4-6.4V from internal battery

Power

2.7mW average

Current Consumption

520µA average

Battery Type

Alkaline primary cells, 23Ah

RF Parameters

Operating Frequency

868.2MHz

Transmit Power

25mW max

Duty Cycle

<1%

Compatible With

Other WES3 units

Protocol

Proprietary

WES3 Product Overview

Comprehensive and Reliable Wireless Safety Solutions for Shipyards and Vessels

WES3 is a fully wireless system specifically designed to provide a simple, fast, and secure method of communicating and alerting personnel during emergencies. Battery-operated and completely wireless, WES3 can be quickly deployed and remotely monitored without the need for cabling or mains power, making it ideal for the dynamic environments of shipbuilding and repair. When integrated with REACT, the system offers enhanced real-time alerts and comprehensive monitoring capabilities. Whether protecting vessels in drydock or large shipyard facilities, WES3 can be easily customized to meet the unique challenges of maritime construction and maintenance projects.

Request a free site survey today:

+91 85888-63632
info@adisansystems.com



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.



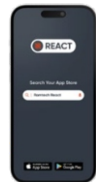
Interface

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.



React

REACT is a cloud-based platform that delivers accurate, real-time, and customized alerts via a simple-to-use mobile app to all relevant personnel during a site incident or emergency.



The only wireless safety system with instant, site-wide alerts, ensuring unparalleled protection and response time.

Fire Safety Standards

Fire Safety Standards During Vessel Construction, Repair, and Maintenance: Understanding NFPA 312 and NAVSEA 8010

Fire safety is paramount in maritime environments, particularly during vessel construction, repair, and maintenance. This page provides an overview of two key standards: NFPA 312, which offers comprehensive guidelines for fire protection on vessels during construction, conversion, repair, and lay-up, and NAVSEA 8010, which outlines stringent fire safety requirements for naval vessels.

NFPA 312

NFPA 312 applies to vessels undergoing construction, conversion, repair, or lay-up, establishing requirements to prevent or limit fire spread. The following information highlights the key points from Chapter 5.14, which focuses on Fire Detection and Fire Alarms.

- **Fire Detection and Alarm Systems:** Chapter 5.14.1 of NFPA 312 mandates that there must be a system in place to alert all individuals aboard the vessel in the event of a fire. This ensures that everyone is immediately aware of an emergency, allowing for prompt evacuation and firefighting efforts.
- **Posting of Fire Procedures:** Chapter 5.14.2 requires that clear instructions on what to do in case of a fire must be posted at the point of vessel access. This ensures that all personnel are informed of the procedures and can act quickly when a fire is detected.
- **Communication Systems for Emergencies:** Chapter 5.14.3 specifies that vessels must maintain two-way voice radio or telephone communication for emergency purposes. This allows for continuous communication and coordination during an emergency, ensuring that the situation is managed effectively.

NAVSEA 8010

NAVSEA 8010 outlines guidelines and requirements for fire protection, prevention, and control on naval vessels. The following information covers Section 6.2, which focuses on the Temporary Installation of Automatic Fire Detection Systems.

- **Temporary Fire Detection Systems:** NAVSEA 8010 Section 6.2 emphasizes the importance of installing temporary automatic fire detection systems on surface ships and aircraft carriers during construction or repair. These systems are essential for continuously monitoring and detecting fire hazards.
- **Fire Detection System Protection:** Section 6.2.2 highlights the need to protect fire detection systems from damage or interference, ensuring they remain fully operational. This protection is critical to ensure that the system can reliably notify personnel of any fire emergencies.
- **Alarm Notification Systems:** The standard also implies that these detection systems must be equipped with alarms capable of notifying both on-board personnel and shore-based command centers. This dual notification system ensures that appropriate emergency responses can be coordinated swiftly.

These guidelines emphasize the importance of effective communication and alert systems to ensure safety during fire emergencies on vessels.

Stay protected around the clock with these essential features:

Robust Mesh Radio Network

WES3's robust mesh radio network ensures reliable, uninterrupted communication across even the most challenging environments.

Seamless System Integration

Easily integrates with other on-site systems, enhancing overall safety infrastructure.

Manual Push Button for Emergencies

Quickly raise fire, evacuation, or medical alerts, ensuring immediate response during critical situations.

IP55 Rated for Outdoor Use

Designed to withstand harsh outdoor conditions, making it suitable for use in diverse environments.

24/7 Protection with Automatic Sensors

Continuous monitoring with smoke and heat sensors that automatically detect and alert you to potential fire hazards.

Full 4G Connectivity

Enables off-site communications, ensuring that alerts and system status updates can be accessed remotely.

REACT

Emergency Notification System

In high-risk environments like shipyards and vessels, safety is paramount. REACT offers a sophisticated alert system designed to keep your personnel and assets protected by delivering real-time notifications across multiple channels. Whether facing a fire, medical emergency, or other hazards, REACT ensures that your team can respond swiftly and effectively.

Fire Alert

In the event of a fire, instantly notify all relevant personnel, giving them the time needed to evacuate the premises safely.

Medical Alert

In the event of a fire, instantly notify all relevant personnel, giving them the time needed to evacuate the premises safely.

Water Damage Alert

Stay informed of potential hazards such as burst pipes or flooding and attach images of the incident.

Hazard Report Alert

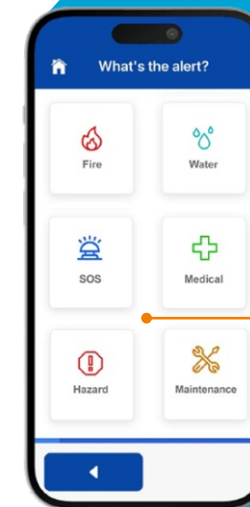
Report hazardous situations on-site, including attaching images of the hazard, to prevent accidents.

SOS Alert

Signal emergencies to designated receivers, providing a rapid and effective way to address unexpected incidents.

Lone Worker

Designed for those who work alone and face potential risks, Lone Worker feature provides regular check-ins and GPS location tracking for enhanced safety.



Self-install

Easy to Set-up

Completely Wireless

3 Year Battery Life

Flooded Mesh Network

Reusable

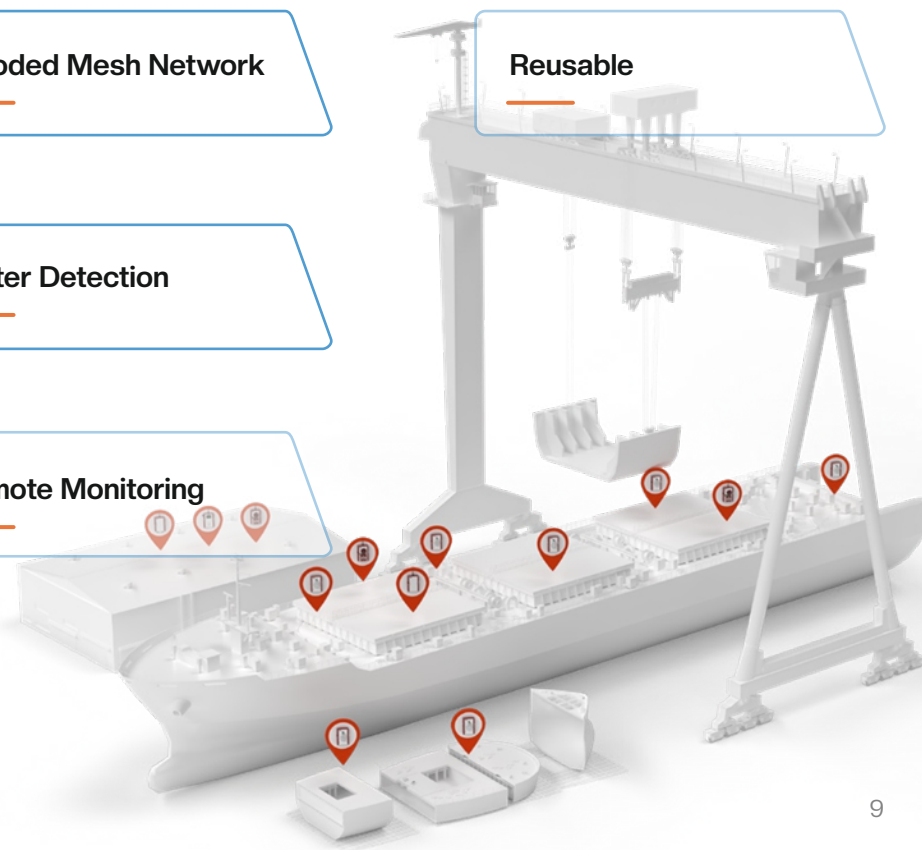
Sitewide Notifications

Water Detection

EN54 certified

Remote Monitoring

Cloud Notifications



WES3 Technical Specifications

Comprehensive Technical Specifications for All WES3 Safety Units

Below, you'll find the essential specifications for each WES3 device, ensuring you have all the necessary information to make informed decisions about your site's safety infrastructure.

	Dimension (mm)	IP Rating	Noise Level	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