



Extronics is a leading UK company specialising in the manufacture and supply of a diverse range of intrinsically safe and explosion protected electrical and electronic equipment. Extronics sources equipment from all over the world, so whatever your need, from standard products to specialised packages, engineered solutions, training or certification, let Extronics be your partner.

Specialist Products

The product range embraces technology to meet with the requirements for applications within Process Automation, Monitoring and Control, Electrical Installation, Test, Calibration as well as the emerging and dynamic Communications arena providing the infrastructure for WLAN (Wireless Local Area Networks).

Extronics hosts two comprehensive websites where information on the product range is available as well as incorporating useful sections on Ex standards and related material.

Engineered Solutions, Bespoke Certification and Development

Extronics multidiscipline capability matched with a high level of expertise and ingenuity provides the diversity necessary to engineer solutions based upon the various concepts of protection for applications in the hazardous environment.

Whether the requirement is a simple Explosion proof enclosure or a complex package of equipment every application is augmented with a comprehensive documentation portfolio including all the appropriate certification.

Extronics has many years of experience of developing products for hazardous areas and offers a re-engineering service to OEM's to provide them with a fully certified version of their standard safe area product, which can include its contract manufacture if required.

Training and Certification Services

Extronics offers a range of services that can be tailored to meet specific requirements from complete EPDs, embracing risk assessment and area classification, to onsite courses covering the ATEX Use Directive and the Installation and Maintenance of Hazardous Area Equipment.

Wireless Networks for Extreme Environments

The wireless network for extreme environments product range gives customers the most advanced, feature rich, intrinsically safe and explosion proof networks available, based on the worldwide 802.11 standard.

Included in the range is Extronics Automatic Mustering and Personnel Location products designed for companies that need to mobilise and track their workforce or assets within hazardous facilities.

Extronics offers part or complete solutions to OEM's, System Integrators and End Users depending on the scope of the project. Whether it is hardware supply, network design, site surveying or commissioning Extronics has the solution for your hazardous area and extreme environment networking applications.

iMUSTER

Automatic Mustering & Personnel Location



Fully Automatic Muster ● Accurate Location ● 802.11 Technology ● High Availability
Automatic Gate Entry & Exit ● People Counting Capabilities ● Advanced Worker Protection ● Highly Scalable



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09/09





iMUSTER

Automatic Mustering and Personnel Location System

Increased worker safety in emergency situations and site evacuation procedures...

ATEX II 1/2 G IIC/IIB T4 & I M1

Factory Mutual Class 1 Div 1 Groups A,B,C,D,E,F,G

MSHA US Mine Safety

The need to ensure the safe evacuation of personnel on hazardous facilities is critical. These include Offshore Production Platforms, Drilling Rigs, FSO & FPSO's, Oil Refineries and Gas Processing facilities, Pharmaceutical and Chemical plants and Mines. Only recently have new wireless technologies offered an alternative solution to the existing manual 'T Card', 'Signing in Book' and 'Swipe Card' methods of accounting for people movement.

Extronics iMUSTER system is powered by AeroScout technology and based on the 802.11 WiFi standards. This means the initial return on investment may be faster than other technologies using proprietary wireless networks because it can be utilised for many other productivity and safety applications such as data, voice and video with PDA's and Tablet PC's etc.

The system is extremely flexible and highly scalable meaning it is possible to start with a small system with less than a hundred tags to one tracking and monitoring tens of thousands. Various location methods are employed depending on the level of accuracy required and whether the application is indoors or outdoors. Location accuracy of three metres in arduous outdoor environments is achievable meaning a worker in an emergency situation can be located in the fastest possible time increasing worker safety dramatically. In an emergency evacuation procedure the 'Muster Call' is fully automatic and progress can be monitored on mobile PDA's ensuring the fastest possible method of accounting for all personnel.

The system can be extended to track and locate other mobile assets on the site and used for telemetry, which is another compelling feature.



iTAG100 Active RFID WiFi Tag

- IP66 Compact enclosure
- 802.11 WiFi and 125KHz LF RFID
- Emergency call button
- Motion detection
- Up to 4 years battery life



iCITE100 Tag Exciter

- IP66 Rugged enclosure
- POE or DC powered
- Up to 6.5 metres 125KHz LF field
- Choke point location detection
- Change tag behaviour or turn on/off

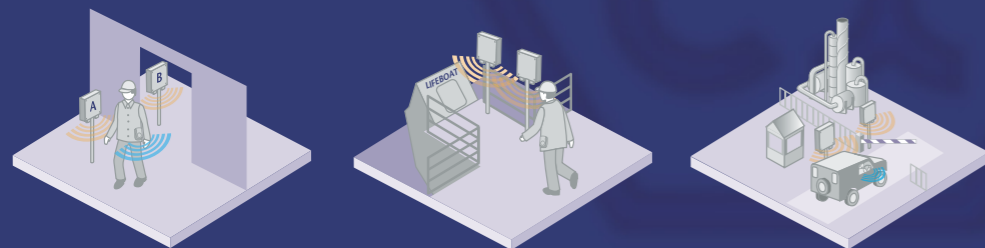


WiFi Access Points & Location Receivers

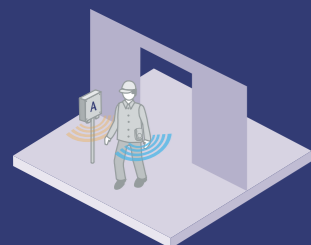
- IP66 Rugged enclosure
- POE, AC or DC powered
- RSSI location principle with WiFi
- TDOA location principle with AeroScout Location Receiver
- Compatible with Cisco, Meru, Motorola, Aruba, Trapeze and many more

Applications

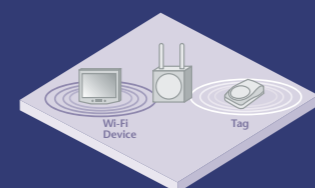
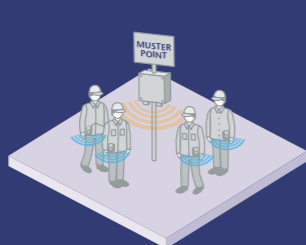
Location Tracking – entrance & exit detection



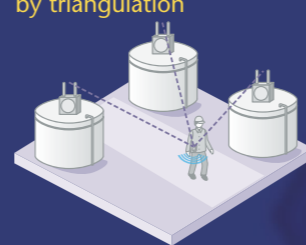
Location Tracking – position by choke point detection



Location Tracking – position by presence detection



Location Tracking - position by triangulation



System Features and Capabilities

- Scalable from tens to thousands of personnel
- 802.11 standards based system protects investment and helps with ROI of already installed WLAN's
- Locate personnel precisely on plant by search or tracking functions
- High availability configuration for all elements of system for applications that need 100% uptime
- Feature rich API to interface with other software on site such as DCS or MIS etc
- Automatic opening and closing of gates on site entrance/exits
- Can grow with user requirements to a complete site wide personnel and asset location and tracking solution
- Lone worker features such as emergency call button, personnel temperature monitor and motion detection
- Web browser based user interface for desk top PC's and mobile PDA's
- Historical database to review practice or live musters as well as exact location trail around site

