

# EkoTek

## Lone worker & staff protection

### Two-way wireless alarms with accurate location for on-site staff and lone workers to protect staff from abuse, violence or other emergencies.

Multitone specialise in delivering integrated wireless staff protection systems and solutions to resolve safety and security problems. The award-winning innovative EkoTek solution for staff and lone worker safety provides protection and safe working conditions for your employees.

EkoTek is the first two-way solution to safeguard staff, coupled with ease of use, and with truly accurate staff location.

This system is designed for simplicity of installation and to deliver a cost effective system solution for staff safety, and is ideal for many applications including industrial premises, council offices, psychiatric units, education centres and hospital A&E departments.

EkoTek can:

- provide staff with a means by which they can easily call for assistance and as the system is two-way, users are reassured quickly that assistance is on its way
- maintain safety as the man-down alarm requires the users to acknowledge an automatically generated call every 10-30 minutes signalling the user is well. All devices are continuously monitored for status and battery levels
- automatically form a wireless network covering the site due to fixed location devices, no matter what the physical layout, including both indoor and outdoor areas, such as car parks or walkways. Accurate location information means that users can be found quickly and can reduce the risk of any incident escalating

#### Key benefits

- Fast and reliable alerting
- Accurate location reporting
- Total site coverage
- Easy to install - no wires
- Cost effective
- Easy to use
- Quick and easy to deploy
- Integrates with other alarm and communication systems
- Full personal security
- Reduces associated business risk
- Addresses safety and communication concerns

For more information on our products please call:

**+44 (0)1506 418198**

or visit:

**[www.multitone.com](http://www.multitone.com)**

## Call fob

The call fob allows an assistance call to be generated either by the user pressing a button, or automatically by the dead-man or man-down features. Accurate location information is obtained from nearby repeaters. The call fob can also report the user's location to a hub web page as the user moves around, allowing user tracking applications such as staff or patient location to be implemented.

## Repeater

The repeater automatically forms the backbone mesh radio network, relaying messages to and from the hub. The network's physical layout is determined by the placing of repeaters, which may extend across floors and buildings. Repeaters are battery powered and do not need any wires, making installation very quick and low cost. Each repeater provides a location beacon signal for accurate location determination for alarm signals and also for tracking. Pull cord and alarm button models are also available.

## Snatch cord pager

The snatch cord pager is multi-functional displaying received messages with acknowledgement, plus the ability to generate an alarm from the user, dead-man or man-down features. The snatch cord pager display shows alarms from other snatch cord pagers and call fobs, allowing the user to accept the alarm and signal back to the call fob or snatch cord pager user alerting assistance is on its way.

## Hub

The hub is the system's central control unit. It displays assistance call messages, showing the calling user and location. Device configuration is stored on the hub and can be changed using a PC running web browser software such as Internet Explorer. Statistics and logs are collected and stored which can be viewed using a web browser. Additional web browser functions include creation of pager messages, allowing messages to be sent to individual or groups of pagers and also location display to allow call fob or snatch cord pager users to be located. The EkoTek system may be extended using additional slave hubs for large site applications.



## Technical specification

Operation Frequency:	2.4 GHz-16 channels
Radio Power:	10 mW
Radio Structure:	self-configuring/repairing mesh for range and easy expansion
Hub Interfaces:	DC power input, alarm contacts, serial to external paging, input/output antenna
Powering:	all devices battery powered except for the hub which has an external DC power input and internal backup batteries for operation during mains failure

Multitone Electronics plc, Geddes House, Kirkton North, Livingston, West Lothian, EH54 6GU  
Tel: +44 (0)1506 418198 Fax: +44 (0)1506 411711 Email: [info@multitone.com](mailto:info@multitone.com) Web: [www.multitone.com](http://www.multitone.com)

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