

# EkoTek for industry

Supplementary information

Lone worker & staff protection



## Do your lone workers need protecting? It's easy with EkoTek.

Advances in machinery controls and processes means that there are now an increasing number of workers operating factory equipment on their own. In turn, this means there are less people on the factory floor with fewer people needed to operate machinery, giving rise to what is becoming widely known as the 'lone worker'.

Consequently, should an accident occur, there may be no-one nearby to supervise or aid an injured worker. Employers carry a duty to reduce the risk associated with lone worker accidents and to increase aid response time. As a result, there is now an increasing need for workers to be protected by a lone worker security device.

EkoTek is a lone worker solution with two-way messaging and personal alarm built in. It is ideal for food processing, manufacturing, utilities and plantations plus much more.

In the industry sector, Multitone's EkoTek solution provides the following:

- man-down alarm - accidents and emergency alerts
- worker location reporting - finding the right person quickly
- on-site security alarms - protecting against criminal damage or accidents
- production line alerts - identifying problems early
- alarms and messaging - controlling staff and production flow
- engineer assistance alerts - quickly responding to down time

Call fob holder



Solar powered repeater



Call point



Charging rack



## 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 visitor 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 button, snatch cord (panic), 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 confirm that 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 system, antenna
Power:	All devices battery powered except for the hub which has an external DC power input and internal backup batteries for operation during mains failure

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