

EkoTek for healthcare

Supplementary information

Lone worker & staff protection



Employees working in the healthcare sector need to be provided with a safe environment to work in, allowing them to provide patients with the best care.

Good healthcare environments matter to patients, visitors, carers and staff. A good healthcare environment has a powerful effect on patients and staff, it can enhance clinical outcomes, patient recovery and improve staff wellbeing.

However, employees working in healthcare environments often face difficult and challenging situations while carrying out their everyday duties. Multitone's EkoTek wireless solution assists in overcoming difficult circumstances faced by healthcare staff and helps increase the service level to patients.

In healthcare applications, Multitone's EkoTek solution helps provide the following:

- a high level of protection for your staff
- fast response to medical emergencies
- fast and efficient communication among healthcare staff
- easy location of staff and patients within healthcare facilities
- staff support and medical call assistance with patient care and tasks
- assistance alerts raised in situations of verbal and physical abuse from patients
- accurate alarm location in order to respond quickly and efficiently to an incident
- two-way paging with acknowledgement when assistance from fellow staff is required
- personal security and protection from abusive patients for staff working in 'at risk' environments

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 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 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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