EKO TEK lone worker protection

Healthcare Solutions

Medical staff and carers need to provide the best medical care for patients, and may also be confronted with challenging situations from day to day. Safer healthcare environments have a powerful and positive effect on clinical outcomes, patient recovery, and the safety of both staff and patients. Staff often work more efficiently knowing they are protected in an emergency situation. EkoTek's wireless solution assists in overcoming emergency circumstances by facilitating fast, wireless, and reliable emergency response communications. In healthcare environments, effective emergency response can literally mean the difference between life and death.

A fast and reliable duress alarm system is critical in any healthcare environment, especially when doctors or nurses need to be located fast, when patients require immediate medical attention, or when a staff member is in trouble and requires immediate assistance.

Staff and patients can use a Call Fob to signal a duress alarm, with the assistance message sent to other staff members or security personnel providing their accurate location information. The Call Fob is small, light, and can be worn safely around the neck allowing users to be mobile within the wireless network and carry out their duties or activities as normal.

EkoTek's features result in faster and more reliable emergency response times, no cabling or electrical modification requirements, minimum costs and maximum flexibility during installation, operation, and system expansion.

IDW Technologies can work with any existing security systems integrator to install EkoTek lone worker protection. EkoTek is a versatile and fully customisable system by nature, which ensures it integrates completely and easily with any existing security framework.

EkoTek is ideal for hosptials, medical centres, nursing homes, other aged-care facilities, psychiatric wards, and many other healthcare environments.

Key Benefits to Medical Staff & Patients:

- Rapid response to emergencies
  Staff or patients can send emergency alarms at any time from anywhere in the network using their wireless alarm units (see over page for details).
- Man down alarm
  A special tilt switch in the alarm unit generates an alarm if the worker falls down.
- Dead man alarm
  Worker must respond to regular alerts by pressing a button on the alarm unit. An alarm is generated if the worker does not respond.
- Worker/Patient location reporting
  EkoTek provides accurate location information of workers or patients in the network. Users can be located fast and reliably in emergency situations.
- Nurse call system
  Medical staff can be paged and located when necessary in order to complete tasks promptly or respond to emergency situations.
- Security system integration
  IDW Technologies can interface with any existing security system and work with the system integrator to install EkoTek lone worker protection.

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website www.ozid.com.au

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EkoTek Components

2-Way Call Fob

Allows duress alarms to be generated either by the user pressing the alarm button or automatically via 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, and thus allowing tracking applications such as visitor, customer, or patient location tracking to be implemented. Acceptance of duress alarms by a 2-Way Pager is indicated at the Call Fob to reassure the user help is on the way.

2-Way Pager

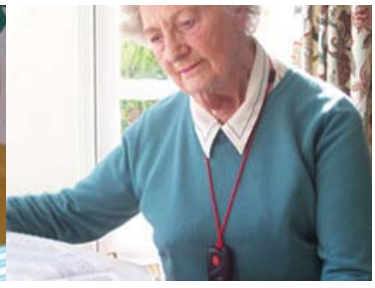
Multi-functional device allowing duress alarms to be generated and can also display received messages and acknowedge. The Pager also supports Dead-Man and Man-down features and displays alarms from other Pagers and Call Fobs, allowing the user to accept the alarm and signal back to the distressed Call Fob or Pager help is on the way.

Repeater

Several Repeaters form the backbone mesh radio network which facilitates 2-way communication between the Hub and users. The physical layout of Repeaters is determined by the premises, and networks may extend across floors and buildings. Repeaters are battery powered and therefore completely wireless, which offers minimum costs and maximum flexibility during installation, operation, and system expansion.

Hub

Receives all duress alarms and displays the distressed user's name and accurate location for security personnel. Device configuration data 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 at the Hub and can also be viewed using a web browser. Additional web browser functions include creating pager messages, sending messages to individual or groups of Pagers, and display of accurate user location information.



Technical Specifications

Radio Frequency	2405 - 2480 MHz
Radio Channels	16
Channel Operating Mode	Fixed frequency or frequency hopping
Radio Protocol	CDMA IEEE 802.15.4
Radio Power	10 mW
Radio Structure	Self-configuring/repairing mesh for range and easy expansion.
Hub Interfaces	AC-DC power input, alarm contacts, antenna.
Power	All devices are battery powered except for the Hub which has an external AC-DC power input and internal backup batteries for operation during mains failure (3 x 'C' NiMh rechargeable batteries).
Repeater Power	2 x 'D' cell high-capacity Alkaline Magnesium or NiMh rechargeable batteries
Pager Power	2 x 'AAA' cell high-capacity Alkaline Magnesium or NiMh rechargeable batteries
Call Fob Power	2 x 'AAA' cell high-capacity Alkaline Magnesium or NiMh rechargeable batteries
Number of Repeaters per radio channel	Max. 90
Total number of Repeaters across all radio channels	Max. 300
Total number of Pagers	Max. 127
Number of Pagers in a Pager group	Max. 35
Total number of Call Fobs	Max. 200
Total number of devices per system	Max. 500

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