

EKO TEK lone worker protection

Industrial Solutions



OH & S regulations state that employers need to create safer working environments for their staff. This is especially true in industrial workplaces, where there are increasing numbers of workers operating potentially hazardous equipment on their own. Consequently, should an accident occur, help may not be nearby and an alarm needs to urgently alert other staff or security personnel. EkoTek's wireless solution assists in overcoming emergency circumstances by facilitating fast, wireless, and reliable emergency response communications. Staff often work more efficiently knowing they will be protected in an emergency situation. In industrial environments, fast and effective emergency response could literally mean the difference between no injury, serious injury, or even death.

Staff can use a Call Fob to signal a duress alarm, with the assistance message providing their accurate location information to other staff members or security personnel. As the Call Fob is small and light, it can be worn safely around the neck, allowing users to be mobile within the wireless network and carry out their duties 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 the ideal solution for industrial environments such as manufacturing, warehouses, factories, utilities, production plants, and much more.



2-Way



No Wires



East to Install



Easy to Expand

Key Benefits to Industrial Workers:

- **Rapid response to emergencies**
Workers 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 location reporting**
EkoTek provides accurate location information of workers in the network. Workers can be located fast and reliably in emergency situations.
- **2-way task management system**
Workers can be sent task requests and can respond 'yes' or 'no'. Workers can be paged and located when necessary to complete tasks promptly.
- **Security system integration**
IDW Technologies can interface with any existing security system and work with the system integrator to install EkoTek lone worker protection.







website www.ozid.com.au

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EkoTek Components

	<p>2-Way Call Fob</p> <p>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.</p>
	<p>2-Way Pager</p> <p>Multi-functional device allowing duress alarms to be generated and can also display received messages and acknowledge. 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.</p>
	<p>Repeater</p> <p>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.</p>
	<p>Hub</p> <p>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.</p>

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

