TTI

GUARDIAN

WIRELESS EMERGENCY NOTIFICATION SYSTEM

Classrooms

Lone Worker

Hospitality

Manufacturing

Courtrooms

Healthcare

TTI Guardian is a completely wireless duress notification system, that gives your staff a way to quickly and effectively communicate an emergency situation. TTI Guardian knows the exact user and location of the incident, which dramatically decreases response time, in turn, saving lives.

With existing buildings, wired systems are time consuming and expensive to install. TTI Guardian Repeaters are completely wireless, and require no cabling or AC power. Designed to run for two years before the batteries need replacing, installation is simple and inexpensive. The only powered device is the Hub which even comes with battery backup in the event of a power failure. Both the Pager and Call Fob with personal alarm, operate on a long life rechargeable battery. Additionally, the TTI Guardian system is completely independent from wireless carriers, won't interfere with existing wireless networks, and has no monthly airtime or recurring charges.

TTI Guardian can also be used as an effective communications tool for staff members. Networked text messaging software allows messages to be sent from any PC on the facility network. Text messages can be sent to individuals or to groups. Ideal for reaching mobile staff members including maintenence, management, emergency response teams, and more. Call logs also track both messages sent, and who responded. Auto dialers, LED signs, and PA systems can all be integrated to work with TTI Guardian to create a customized solution that meets the needs of your environment.

FEATURES

- No monthly or recurring fees - you own the system outright
- No electric or cabling needed to power or connect each Repeater
- Complimentary 24x7x365 support for the first year included with installation
- Extremely easy to operate
- Highly scalable and flexible: the system is expandable by number of users, areas, and buildings we can cover
- The Hub can still receive alarms during a power failure for up to 4 hours using its back up battery
- Redundancy in design provides security, even if a Repeater becomes inoperable
- 3 Alarms: panic button, man-down, and no-response
- Alarms can be audible or silent
- Completely wireless system: IEEE 802.15.4 radio backbone
- Will not interfere with existing Wi-Fi networks
- Self-organizing
- Self-repairing mesh network
- All devices automatically configured from the Hub
- Up to 500 Repeaters & Pagers / unlimited Call Fobs
- Can be deployed outdoor using weatherproof enclosures

Devices

Hub

Repeaters

Call Fob

Pager

HUB

The heart of the system, the Hub is responsible for processing alarms, delivering messages, and providing over-the-air configurations to the Repeaters, Pagers, and Call Fobs. Battery backup is on board if power fails. Access to web browser application and management tools plus connections to outside systems. Full log and audit trail of messages and alarms. The Hub has a built in radio, which starts the chain of connections to the Repeaters in the mesh network.

About the size of a small smoke alarm, the battery powered Repeater provides the messaging path to and from the Pagers and Call Fobs, plus relays the location and user information back to the Hub. Repeaters are designed to run for over two years before needing a battery replacement. Polling of other Repeaters allows the best path back to the Hub to be found. Shown on the right is a Push-Button Repeater, which allows the user to signal an alarm without the use of a Call Fob or Pager, directly from the Repeater itself. They can easily be mounted to the wall, the ceiling, or under a desk or other discreet place.

CALL FOB

About the size of your car's keyless entry device, the Call Fob allows an alert to be generated either by pressing the duress button, or automatically by the system by way of the Man-Down or No-Response features. User and location information is relayed over the Repeater network to the Hub and Two-Way Pagers on the system. Message received notifications can be sent to the Call Fob to provide the user the reassurance that assistance is on the way. It can be worn around the neck with a break-away lanyard, on a belt clip, or mounted under a desk or other discreet place.

GUARDIAN

Four line alphanumeric display Pager can automatically receive alerts from Call Fobs and other Pagers providing location and user identity. In addition, the Pager also has a personal duress button, polling and man-down functionality. Alerts are sent over the Repeater network to other staff members providing the location and the identity of staff members in need of help. The Pager can also be used for routine messages. Pagers are commonly used for staff members who roam throughout the Repeater network, such as a security guard making the rounds.

TYPES OF ALARMS

Personal Duress

The personal duress alarm is activated by a simple button press on either the Call Fob or on the Two-Way Pager. User and location information is quickly sent across the Repeater network back to the Hub and to other users on the system.

Response Polling

The polling feature can be turned on and off as needed. When making rounds or working in un-manned areas of a site, the polling feature can be turned on to provide another layer of protection to your workers. A periodic alert is sent to the Call Fob or Pager, requiring the worker to acknowledge it. In the event that two alerts do not get acknowledged, a warning tone will be generated followed by a notification providing user and location information back to the Hub and Two-Way Pagers on the system.

Man-Down

Similar to the no response alarm, the Man-Down alarm feature can be turned on and off. With the feature enabled, when the device is tipped beyond a certain angle, a tilt switch inside the Call Fob automatically signals a warning to the user. If the warning is not cleared by the user, the Call Fob will signal an alarm for that user, providing user and location information to the Hub and Two-Way Pagers on the system.

Notification Features

- User and location information delivered directly to security and select staff.
- Instant group notifications of emergency messages such as chemical spills, fire alarms, weather alerts, or intruders to all staff using the two-way Pager.
- Acknowledgement of message received sent back to dispatch/sender of the message.
- All clear messages can be sent to groups including crisis resolved or return to location. This can even be grouped by job function.
- Routine messages can also be sent, such as information on staff meetings, visitors in the building, and even current events and morale messaging.
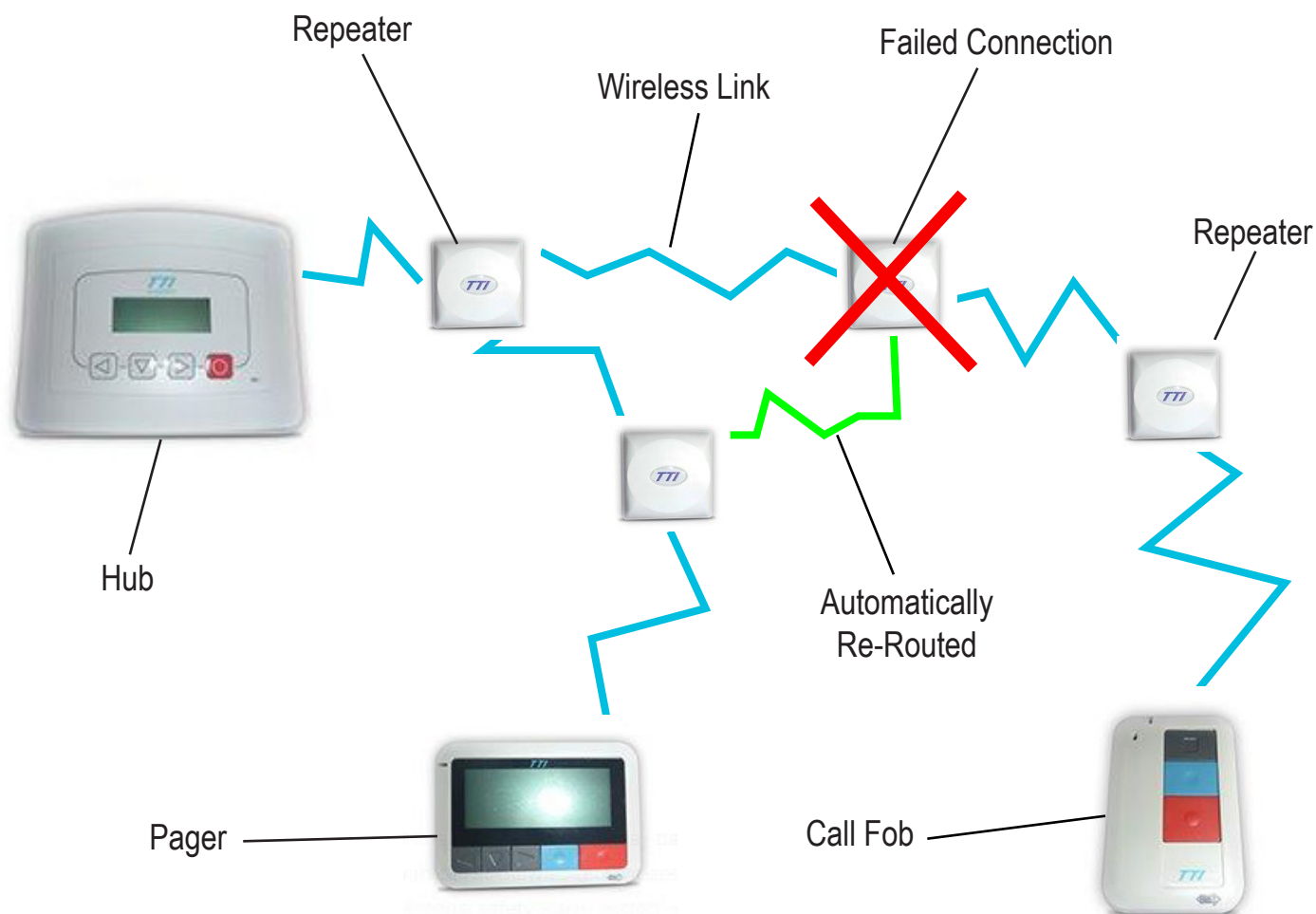
Security Features

- Location information sent upon alarm.
- User identification sent upon alarm.
- Notification back to user that alarm was received.
- Instant, discreet notification of alarms to staff and security.
- TTI Guardian system tracks location as a user moves through the facility.
- Outdoor enclosures to cover parking areas, walkways, roofs, and outdoor areas.

How It Works

When an alarm is signaled on a Call Fob or Pager, the user and location information is wirelessly transmitted to the closest Repeater in the network, and across the closest path of Repeaters back to the Hub.
In the event that a Repeater fails, the signal is automatically re-routed to the next closest Repeater in the network, then back to the Hub.

Repeater

Wireless Link

Failed Connection

Repeater

Hub

Automatically
Re-Routed

Pager

Call Fob

What happens after an alert is generated?

Once the alert has been received by the Hub, the location and user information will be shown on the Hub's display.

- Using the location and user information on the Hub's display, staff members can quickly find the employee, and assist them

- An optional Auto-Dialer can be integrated, to call a list of phone numbers once an alarm is generated

- Software can be integrated that can send out SMS text messages or Email Blasts to a list of personnel that you choose

- An optional LED sign can be integrated that can display an emergency message to personnel

- The Hub can be integrated to work with overhead PA systems to generate a canned audio message to personnel

TTI GUARDIAN

TTI Guardian has been successfully deployed in:

- Hospitals
- Schools
- Courtrooms
- Manufacturing Facilities
- Hotels
- Behavioral Health Clinics
- Television Studios
- Laboratories
- Warehouses
- Detention Centers

Demo Kits for evaluation are available at no charge. Contact us today to learn more:

**Turn-key Technologies
2400 Main Street Extension, Suite 12
Sayreville, NJ 08872
(732) 553-9100**