Flash™

Personal emergency alarm system

DESCRIPTION – To help keep personnel working in high-threat environments safe, the Flash™ emergency alarm system instantly sends a call for help at the touch of a button. When a user causes an alarm by activating his / her Personal Protection Device (PPD) the PPD emits an RF signal that is picked up by Flash sensors installed in wall or ceiling spaces. The Flash sensors in turn signal the alarm condition to the central control computer running Flash user-interface software. The alarm and PPD is displayed to security personnel. Flash is ideal for individuals who work in an environment where their safety could be threatened by physical assault, sudden illness or an accident.

APPLICATION – Flash RF sensors are installed in wall or ceiling spaces of the area being provided with Flash coverage. Both indoor and outdoor areas can be covered. The PPD contains a radio frequency transmitter and is worn on the user's belt. When a user needs assistance, he / she simply presses a button on the PPD which transmits the alarm signal. Pull-pin and man-down (tilt activated) options can be added.

Features

- Supports more than 4,000 unique IDs
- Covers rooms, stairwells, corridors and outdoor areas
- Signal is not blocked by building materials, smoke, human body or heavy clothing
- Modular system
- Internal antenna - protected against damage
- Protective holster

Benefits

- High reliability
- Cost-effective
- Rugged
- Easy-to-install
- Low maintenance
- No blind spots
- Modularity means easy-to-expand coverage and easy to add users
- Compliant with International Frequency Coordination Bodies (FCC Part 90, CE and IC)

Markets

- Correctional facilities
- Hospital
- Industrial (high-risk environment)
- University / college campuses

LIFE SAFETY / DURESS PRODUCTS

Technical Specifications

Technology

The Flash system uses reliable radio frequency technology that alerts security personnel when a staff member is in trouble. Although the PPD is compact, it is powerful enough to send an instantaneous distress signal up to 1 Km when the alarm button is pushed. Sensors in the facility identify the signal and a control room computer displays the PPD's unique ID number and displays the name of the user or facility to which the device is assigned. Flash is designed to operate in a concrete and metal environment so building material, smoke, heavy clothing or people will not block the signal. It operates on a licensed frequency within the Public Safety band (420 - 450 MHz in Canada and 450 - 470 MHz in USA) and so is protected from interference from other radio signals. PPDs and sensors can be added as required.

System components

- RF receivers
- Monitor Post Interface Units (MPIUs)
- Control computer (Windows® PC)
- PPD transmitters

PPD SPECIFICATIONS

ENVIRONMENTAL AND PHYSICAL

SIZE, EXCLUDING HOLSTER: 120 x 50 x 25 mm (4.7 x 2 x 1 in.)

WEIGHT INCLUDING HOLSTER AND BATTERY: 200 g (7 oz.)

TEMPERATURE RANGE: -40°C to +50°C (-40°F to +122°F)

HUMIDITY: 0% to 90% non-condensing

ENCLOSURE:
- Black ABS plastic
- Tamper resistant screws

BATTERY COVER: Four tamper resistant screws

HOLSTER: Black leather with belt loop and snaps

ELECTRICAL & ALARM TRANSMISSION

BATTERY: 9 volt alkaline, user replaceable

BATTERY LIFE: 1 - 2 years

LOW BATTERY WARNING: Automatic warning transmission to head end computer

BATTERY LIFE AFTER LOW BATTERY WARNING: At least 15 days

ANTENNA: Internal (optional external)

FREQUENCY RANGE:
- Operates in the International public safety band: 420 to 470 MHz
- Two sub-band model types:

  Low-band (Canada): 420 to 450 MHz
  High-band (USA): 450 to 470 MHz
  Other Countries: Contact factory

FREQUENCY WITHIN SUB-BAND:
- Reprogrammable to meet local frequency allocation guidelines

DATA ENCODING: FSK

TRANSMISSION RANGE: 1 km (0.6 mile) line of sight, 100% coverage in prescribed areas

USER PROGRAMMABLE PPD SETTINGS

PPD ID CODE: 4096 unique ID codes

LANYARD (PULL-PIN) OPTION:
- Alarm repeat period: 5 to 60 seconds

MAN-DOWN (TILT) OPTION SETTINGS:
- Alarm repeat mode: single, retransmit until PPD is righted, retransmit until manual reset
- Alarm repeat period: 5 to 60 seconds
- Tilt angle for alarm: 20 to 90 degrees from vertical
- Time before warning: 0 to 10 seconds
- Alarm time after warning: 5 to 30 seconds
- Warning and alarm tones enable

FREQUENCY COORDINATION CERTIFICATIONS:

- FCC Part 90
- Industry Canada RSS119

PRODUCT SAFETY CERTIFICATIONS:

- UL
- CSA
- CE

TRANSMITTER PROGRAMMER

CONNECTION TO TRANSMITTER: 457 mm (18 in.) cable connects to header inside battery compartment

CONNECTION TO COMPUTER: 1.82 m (6 ft.) RS-232C cable

SOFTWARE: CD ROM with manual

SOFTWARE PLATFORM: Windows® 98, 2000 or XP

PROGRAMMABLE FUNCTIONS:

- ID code
- Man-down time and angle
- Man-down alarm retransmit
- Man-down alarm repeat period
- Warning tone options

Specifications are subject to change without prior notice.

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