



**Grace Industries, Inc.**

*Solutions for Life Safety*

# Personal Alarm 1000



The PA1000 is a Personal Alarm system that protects personnel by sounding a **Loud Audible alarm** and **transmitting a radio "Call For Help" signal** in the event of an emergency.

**This Personal Alarm Features Several Levels of Protection:**

- ◆ A built in motion sensor can automatically trigger the alarm summoning help if the user stops moving. This activates a Loud Audible alarm and transmits the radio "Call for Help" signal.
- ◆ The tethered emergency key can be easily knocked off the PA1000A in a scuffle or assault incident that activates both the Loud Audible alarm and transmits a radio "Call for Help" signal.
- ◆ A silent alarm mode can be activated by pressing the center red button. This activates the radio "Call for Help" signal only, keeping the audible alarm off.



## FEATURING THE EMERGENCY ACTIVATION KEY

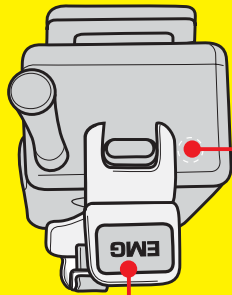


**Simply Push Your Hand Across the Top of the Emergency Key. Knocking it Away from it's Mount Activates the Alarm.**

PA  
1000

# Personal Alarm 1000

## SPECIFICATIONS



Emergency Activation Key

Silent Alarm Push Button

Red Light Status Indicator\*

\*Red Light Status Indicator . . .

**No Glow** – Unit is OFF.

**Slow Pulsed Glow** – Unit is ON and in motion sensing mode.

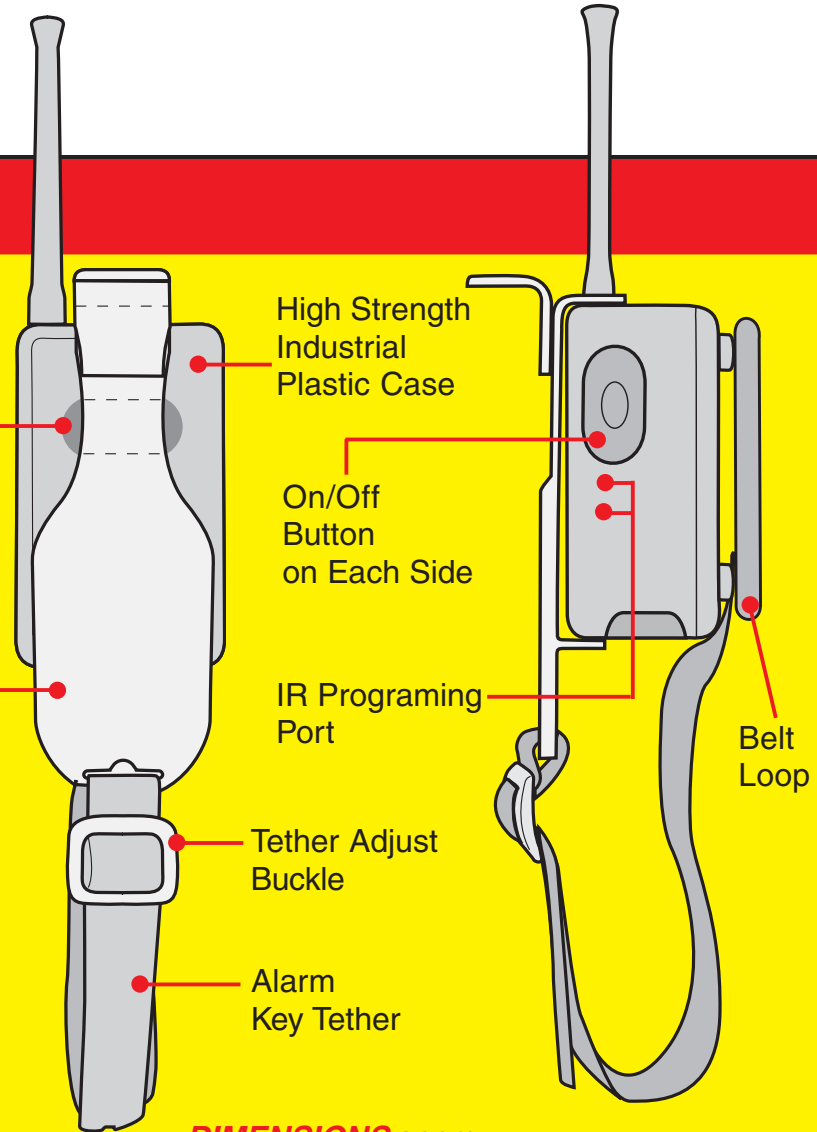
**Rapid Pulsed Glow** – Unit is in Alarm.

**Radio** Spread Spectrum 902-928 MHz band. No FCC license required.

**Audio Output** 98+dBA minimum measured at 10 feet.

**Motion Detector** Solid state accelerometer

**Power** 9 volt alkaline battery (Duracell MN 1604 recommended).



High Strength Industrial Plastic Case

On/Off Button on Each Side

IR Programming Port

Belt Loop

Tether Adjust Buckle

Alarm Key Tether

**DIMENSIONS** approx.

Ht: 3-1/8" Width: 2-1/4" Depth: 1-1/2"

**WEIGHT** approx. 9 ounces

## SM1000 System Monitor - Alarm Receiver

The SM1000 receives radio signals from the PA1000 Personal Alarm and displays the status of each PA1000 device on a large LCD screen.

- ◆ Identifies user by name and ID number for all PA1000 units.
- ◆ Shows the active PA1000 units in motion sensing or alarm modes.
- ◆ Alarm display shows flashing Red lights and plays a custom audio voice recorded message.



**Range:** Up to 1/2 mile depending on environment and other limiting factors.

**Power:** 120-240 volts AC, internal battery pack, self charging, +12 volt DC input.

**Case:** Portable, rugged impact resistant ABS plastic.

**Outputs:** Form C Relay contact closure for alarm conditions.

**RS232** Serial port for data log output and user name database management.

**GRACE INDUSTRIES, INC.**  
Solutions for Life Safety

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QUALITY SYSTEM  
REGISTERED TO  
ISO 9001-2000

**SM  
1000**

# System Monitor

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## ADVANCED RADIO TECHNOLOGY TO PROTECT CORRECTIONS OFFICERS

The SM1000 System Monitor receives alarm signals transmitted by PA1000 Personal Alarms and instantly identifies the officers in need of help.

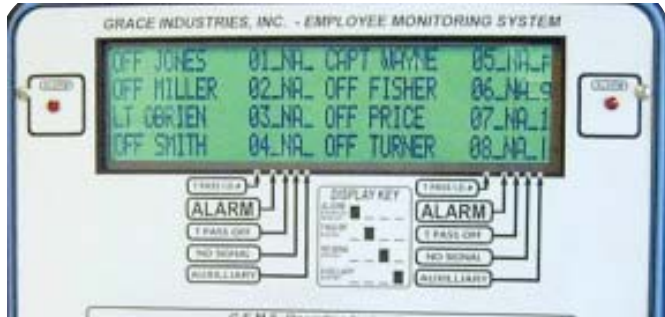
Immediate notification of an emergency is shown by red flashing lights, playback of a customized audio recording and displaying the officer's name on the screen.



# System Monitor

Advanced Radio Technology  
to Protect Corrections Officers

**SM1000 continually monitors PA1000 Personal Alarms and displays their status on a large LCD screen:**



- ◆ Identifies by user name and ID number all PA1000 units.
- ◆ Displays all active PA1000 devices in motion sensing or alarm modes.
- ◆ Alarm display of flashing Red lights and custom audio voice recorded message.

The SM1000 System Monitor along with the PA1000 Personal Alarms use high performance radio telemetry providing officers a reliable easy way to summon help in the event of a scuffle, attack or other emergency.

**Wireless**, the SM1000 system easily accommodates installation into new or existing facilities and does not require expensive hard wiring and time consuming installation procedures associated with other monitoring methods.

**Reliable**, SM1000 System Monitors and PA1000 Personal Alarms are designed and built to the same high quality and extreme durability requirements of fire fighter monitoring equipment manufactured by Grace Industries.

**Expandable**, SM1000 systems are easily expanded to accommodate growing facilities where larger areas and more personnel may be needed.

**The System Monitor 1000 along with the rugged & dependable Personal Alarm 1000 transmitter, gives your officers protection they deserve.**

## SPECIFICATIONS

**Alarm Indicators:** Flashing Red lights, Playback of customized recorded audio message, form C relay contact closure, LCD screen displaying user name and ID.

**Range:** Up to 1/2 mile depending on environment and other limiting factors.

**Radio:** Spread Spectrum 902 – 928 MHz license free ISM band.



**Power:** 120-240 volts AC, internal battery pack, self-charging, +12 volt DC input.



**Case:** Portable, rugged impact resistant ABS plastic. Approx. 14 x 10 x 6 inches.

**Capacity:** Up to 800 PA1000 personal alarms can be monitored simultaneously.

**Outputs:** Form C Relay contact closure for all alarm conditions can be used to trigger other external auxiliary devices including phone dialers and warning sirens. Relay Contact Rating 5A/250VAC, 5A/30VDC.

**RS232:** Serial port data log output and user name database management.

**Options:** Enhanced Remote Receiver, for extended range covering larger facilities.  
Smart Repeater, for extended range and to cover the largest facilities.  
Lead Acid Battery Pack, for long-term stationary installations.