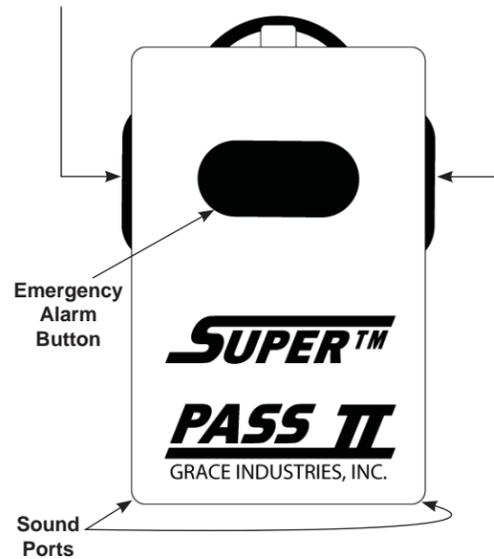


## Pre-Alert and Alarm Time Periods

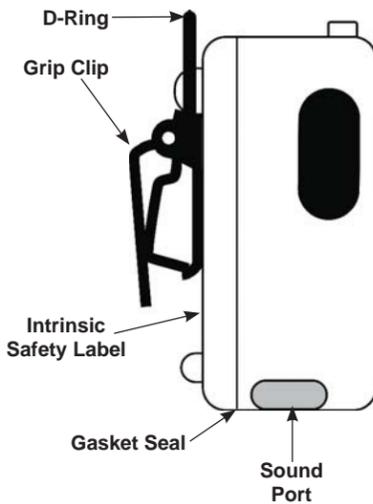
Alarm Time	Pre-Alert	ALARM
30 seconds	Pre-Alert 18 to 23 seconds	30 to 35 seconds to Alarm
60 seconds	Pre-Alert 48 to 53 seconds	60 to 65 seconds to Alarm
90 seconds	Pre-Alert 78 to 83 seconds	90 to 95 seconds to Alarm
120 seconds	Pre-Alert 108 to 113 seconds	120 to 125 seconds to Alarm

### SuperPASS®II Front View

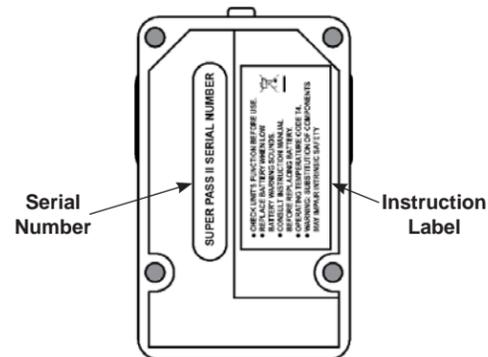
1. To turn **ON**, press both side buttons simultaneously.
2. To turn **OFF**, press both side buttons simultaneously.



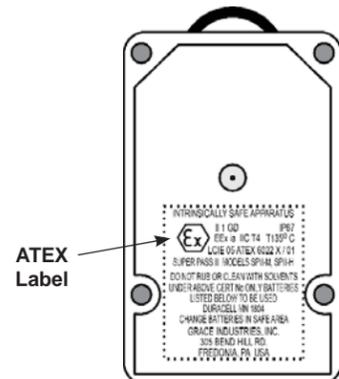
### Side View



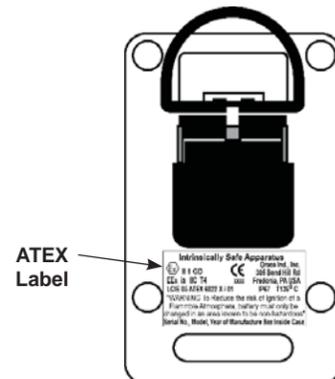
### Battery Chamber



### Back - Inside View



### Back - Outside View



## Warranty Information

Grace Industries, Inc. warrants SuperPASS®II to be free from defects in workmanship and materials for a period of one year from date of purchase. This warranty is valid only when the returned SuperPASS®II is accompanied by a sales receipt or other proof of purchase that states the date and location of purchase. Grace Industries, Inc. will not repair or replace any merchandise under warranty which has been damaged because of accident, misuse or abuse of the SuperPASS®II while in possession or control of the consumer or outside of Grace Industries Inc's control. This warranty is void if any attempt to repair or replace parts was made or attempted by other than qualified Grace Industries, Inc. personnel. This warranty is void if any of the sealed compartments are opened or tampered with. Send all returned merchandise, prepaid and accompanied by proof of purchase to: Grace Industries, Inc., Repair Division, 305 Bend Hill Road, Fredonia, PA 16124. Customer is responsible for return shipping. Grace Industries, Inc. shall not be liable for any direct, incidental or other consequential loss or damage arising out of the failure of the device to operate.

The sole and exclusive remedy under all guarantees or warranties, expressed or implied, is strictly limited to repair or replacement as herein provided. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE (1) YEAR FROM THE DATE OF PURCHASE. The warranty and liability set forth in the prior paragraphs are in lieu of all other warranties, expressed or implied, in law or in fact, including implied warranties of merchantability and fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

The information contained in this booklet is believed to be accurate and reliable. Grace Industries, Inc. provides this information as a guide only.

SuperPASS®II technical assistance is available by contacting Grace Industries, Inc. at (724) 962-9231 or by email at [info@graceindustries.com](mailto:info@graceindustries.com).

For training purposes a copy of this information is available by contacting Grace Industries, Inc.

SuperPASS®II issues may be reported at any time to Grace Industries, Inc. at 724-962-9231.

## SuperPASS®II USER'S INFORMATION

Only To Be Removed By End User

ATEX Certified  
Manual Activation



SP11 with Motion Sensing and Temperature Sensing



SP11 with Motion Sensing Only

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

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P/N: SP2-EX-MAN 01 0719

## **READ INSTRUCTIONS BEFORE USE**

### **SuperPASS®II Intended Use**

**SuperPASS®II** is a motion-sensing PASS device designed for use by firefighters, first-responders, and industrial users engaged in firefighting, rescue, and other hazardous duties. SuperPASS®II provides distinct audible and visual alarms for indicating a user distress or emergency situation. The very loud audio alarm allows rescue personnel to rapidly pinpoint the location of the firefighter or worker in distress.

**It is highly recommended that all personnel be thoroughly trained in the proper use and operation of SuperPASS®II prior to use. Always inspect and test SuperPASS®II prior to use. Failure to do so may expose the user to serious injury or loss of life.**

Each member involved in fire suppression, rescue, or other duties shall be provided with and shall use a PASS device in hazardous areas.

### **Features**

- Emergency Alarm Button
- Pre-Alert: Warning Prior to Full Alarm
- Audible and Visual Indicators for all Modes of Operation

### **Operating Instructions**

**ACTIVATING SuperPASS®II:** Simultaneously press both side buttons to activate SuperPASS®II into the motion **Sensing Mode**.

During activation, an operational signal of escalating audio tones will be heard and an alternating display of four Yellow LEDs indicates the SuperPASS®II is in **Sensing Mode**.

**PRE-ALERT MODE:** After approximately 18 to 23 seconds of no motion, SuperPASS®II begins an audible Pre-Alert sound and the alternating Yellow LED display is interrupted by intermittent pulsing of four Red LEDs. The Pre-Alert sound progressively becomes louder, indicating SuperPASS®II is closer to full **Alarm Mode**.

**ALARM MODE:** There are two methods of activating the Alarm Mode.

**1) MOTION-ALARM:** After 30 to 35 seconds of no motion, SuperPASS®II enters the **Alarm Mode**.

**2) EMERGENCY ALARM:** User can activate **Alarm Mode** at any time (from **Sensing Mode** or **Off Mode**) by pressing Emergency Alarm Button.

**ALARM MODE** is indicated by a rapid pulsing of four Red LEDs while sounding a loud audio alarm.

**TURN OFF:** SuperPASS®II can be turned **OFF** from any mode by simultaneously pressing both side buttons.

### **Mounting and Attachment**

SuperPASS®II is equipped with a high-strength Grip Clip designed for secure attachment to a vertical strap on the upper left or right shoulder, in the horizontal position with the sound port facing out to the side, or on the right hip area. **The ideal wearing position is often best determined by the end user for ease of access and operation.**

### **Visual / Audio Mode Display**

#### **OFF**

- A series of de-escalating, loud audio tones.
- No LED display.

#### **ON (Sensing Mode)**

- A series of escalating, loud audio tones.
- Alternating display of four Yellow LEDs.

#### **PRE-ALERT**

- No motion sensed for 18 - 23 seconds.
- Yellow alternating LED display is interrupted by pulsing of four Red LEDs.
- Accompanied by progressively louder audio tones.

#### **ALARM**

- No motion sensed for 30 - 35 seconds.
- Rapid pulsing of four Red LEDs.
- Accompanied by loud (98+ dBA) audio alarm.

#### **LOW BATTERY**

- Series of three audio beep tones enunciated every five seconds.

### **Mode Selection**

#### **ON (Sensing Mode)**

- Simultaneously press both side buttons to activate SuperPASS®II into the **ON** or motion **Sensing Mode**.

#### **ALARM**

- **Alarm Mode** can be manually activated at any time (from **Sensing Mode** or **Off Mode**) by pressing the Emergency Alarm Button.

#### **OFF**

- SuperPASS®II can be turned **OFF** from any mode by simultaneously pressing both side buttons.

### **Maintenance**

SuperPASS®II requires minimum maintenance and will provide years of service.

#### **Please Observe These Guidelines**

- At the end of each use, clean unit with a damp cloth. **DO NOT use cleaning solvents.**
- After each use, inspect for signs of physical damage. **Remove SuperPASS®II from service if physical damage is observed.**

- Store SuperPASS®II in a dry, well ventilated area consistent with battery manufacturer requirements. Recommended storage conditions are: 50° to 77°F (10° to 25°C) at no more than 65% relative humidity.

- Units contaminated by chemical or radioactive materials must be disposed of or decontaminated in accordance with all applicable regulatory standards.

- Replace battery approximately every 6 months or sooner if indicated by Low Battery Alarm.

- **DO NOT mark or apply paint to SuperPASS®II**

### **Specifications**

**Dimensions:** 2.1" wide, 3.2" high, 1.6" deep

**Weight:** seven ounces with battery

**Alarm Audio Output:** 98+ dBA at 10 feet

**Case:** rugged, high temperature, impact resistant, translucent, Apache Yellow engineered plastic.

**Attachment:** rugged Grip Clip and D-ring for versatility in attaching to gear.

**Battery:** 9 volt Duracell MN1604 required.

**Battery Life:** approximately 100 hours in **Sensing Mode** and 2 to 4 hours in **ALARM Mode**.

**Product Life:** Approximately 3 to 5 years, depending on fitness for use. Fitness for use is best determined by the end user through a proper inspection and maintenance program. **Product should be retired from service when damaged or determined unfit for use.**

### **Limitations**

**To reduce risk of serious injury or loss of life, ensure SuperPASS®II is fully operational by testing and inspecting the unit prior to use. Use of a SuperPASS®II maintenance and training program including replacement of exhausted or low batteries is required for safe and proper use.**

If proper operation of SuperPASS®II is questionable, remove unit from service and contact Grace Industries for assistance.

### **Temperature Sensing**

SuperPASS®II is equipped with temperature sensing capability if the buttons are Red and the serial number ends in an **H**. Serial number is located in the battery chamber.

SuperPASS®II temperature alarm (a rapid ringing tone) should not be regarded as an absolute measure of existing temperatures. The temperature alarm may sound an alarm earlier or later with regards to integrated time-temperature sensing. The time variation is dependent upon where the unit is worn and the environmental conditions at the fire scene. When the temperature alarm solid-state thermostat threshold has been exceeded by exposure to extreme environmen-

tal conditions, the unit will sound the temperature alarm audio tone with a specific LED display. The temperature alarm sound signature is a loud, piercing, rapid chirping tone accompanied by the slow pulsing of four Red LEDs. The temperature alarm cannot be turned off. SuperPASS®II must cool down below the temperature alarm threshold and will automatically reset.

#### **Approximate Temp. Alarm Response Times**

350°F - 6 minutes  
300°F - 8 minutes  
250°F - 10 minutes  
200°F - 12 minutes

### **Battery Installation and Replacement**

To reduce the risk of ignition of a flammable atmosphere, battery must only be changed in an area known to be non-flammable.



To change battery, remove the four screws securing the back cover. Remove back cover, disconnect and dispose of the exhausted battery and connect a new battery. Dispose of used batteries in accordance with national or local regulations.

**WARNING!** Always use the specified 9 volt alkaline battery. Duracell MN1604 is required for intrinsic safety and optimum performance.

Before replacing the back cover, inspect and remove any dust or dirt on the mating edges of the back cover and case. **Carefully replace back cover and gently tighten all four screws using a crisscross pattern for even gasket pressure, ensuring a good seal. DO NOT over tighten screws.**

Replacing the battery every 6 months is recommended unless indicated earlier by the **Low Battery Alarm**.

**Low Battery Alarm** will sound when the battery has been exhausted to 20% of capacity (indicating approximately 1 hour of Alarm operating time remains). Immediate replacement of the battery is necessary when the **Low Battery Alarm** sounds.

When SuperPASS®II is in **Sensing Mode**, the **Low Battery Alarm** is an easily recognized series of three audio beep tones enunciated every five seconds.

Grace Industries, Inc. assumes no liability for mechanical, electrical, or other types of battery failure.

### **Safety Certifications**

LCIE 05 ATEX 6022 X /01

CE - Directive 2014/34/EU

Ex - II 1 G EEx ia IIC T4

- EN50014 (1997) + amendments 1& 2

- EN 50020 (2002)

IP67 Tested by MET Labs

### **Intrinsically Safe, Sécurité Intrinsèque**

#### **WARNINGS!**

**WARNING! To prevent ignition of a hazardous atmosphere, batteries must only be changed in an area known to be nonhazardous.**

**WARNING! Substitution of components may impair intrinsic safety.**

#### **AVERTISSEMENTS!**

**AVERTISSEMENT! Afin de prévenir les inflammations des atmosphères dangereuses, ne changer les batteries que dans des emplacements désignés non dangereux.**

**AVERTISSEMENT! La substitution de composants peut compromettre la sécurité intrinsèque.**

### **Environmental Protection**

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

### **Protection Environnementale**

Les déchets de produits électriques ne doivent pas être jetés avec les ordures ménagères. Veuillez recycler là où les installations existent. Vérifiez avec votre autorité locale ou votre détaillant pour des conseils de recyclage.

