



**AMERICAN<sup>™</sup>**  
**AIRWORKS**

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## **DoublePASS<sup>™</sup>**

### **Personal Alert Safety System (PASS) Remote Alarm Module**

#### **Product Specification Sheet**

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#### **I. Purpose**

To establish minimum standards for a Remote Alarm Module.

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#### **II. Approvals**

A. DoublePASS shall be certified as an SCBA accessory by the National Institute for Occupational Safety and Health (NIOSH) under Title 42, Part 84 of the Code of Federal Regulations.

B. DoublePASS shall be certified as compliant with all appropriate performance requirements of the National Fire Protection Association's 2002 edition of NFPA 1981, *Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services*.

C. DoublePASS shall be certified as intrinsically safe meeting ANSI/UL, Standard 913, latest edition for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, Division I, Groups A, B, C, D, E, F, and G; Class II; and Class III Hazardous (Classified) Locations.

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#### **III. Configuration**

A. The device shall be mounted on the hose retainer block located on the left side of the backpack's tank band.

B. The device shall be constructed of a material that will withstand a drop of 30 feet onto concrete without breakage.

C. The device shall not contain a motion sensor, but instead shall be activated by the COMPASS integrated PASS device to which it is connected. SCBA air shall not flow through the device.

- D. The electronics compartment shall be water-tight to a minimum depth of 1 meter.
- E. The device shall plug in to a socket in COMPASS; the signal from COMPASS shall be sent through a rugged, flexible metal hose.

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#### **IV. Display**

The device shall have one row of three high-intensity LEDs. One of the LEDs shall be green, one shall be red, and one shall be amber. In sensing mode and pre-alarm mode, only the green LED shall flash. In full alarm mode, only the red LED shall flash. In low battery condition, the amber LED shall flash (see section VI).

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#### **V. Alarm**

- A. The device shall have one audible piezoelectric alarm mounted on the front of the unit.
- B. Alarm Signal
  - 1. The alarm shall have a sound pressure level of 95-105 dBA at 3 meters for the first 4 hours in alarm mode and 95 dBA minimum at 3 meters after a minimum of 1 hour in low battery condition. The signal shall alternate with the audible alarm from COMPASS.
  - 2. The frequency range shall be 1000–4000 Hz.

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#### **VI. Battery**

- A. The DoublePASS shall utilize a 9-volt battery.
- B. There shall be a separate battery compartment to prevent damage if the battery leaks. The battery compartment shall be accessible by removal of a Phillips screw. The battery compartment shall be water-tight to a minimum depth of 1 meter.
- C. The device shall have an amber low battery light and an audible alarm that shall warn the user of a low battery condition.
  - 1. The audible alarm shall emit two beeps every 15 seconds.
  - 2. The visual alarm shall incorporate an amber LED which flashes 2 times per second.
- D. The battery life shall be a minimum of 100 hours in sensing mode and a minimum of 4 hours in alarm mode before the low battery warning.

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**VII. Instruction Card or Booklet**

An instruction card or booklet shall be provided with each DoublePASS. Instructions shall contain complete installation (if purchased as a kit) and operation procedures.

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**VIII. Warranty**

The DoublePASS shall carry a warranty of not less than three years.

