

Product Specifications

Personal Alarm Device (PAD)

Part Number: HN-PAD

Size: 3.81" x 2.92" / 97mm x 74.2mm

Weight: 4.7oz / 133g

Input Voltage: 3.7 VDC

Magnetic Field: none

Transmitter Frequency: 916 MHz

Transmitter Power: 0.001 W (typical)

Receiver Frequency: 73 kHz signal

PAD Battery: 3.7 VDC Lithium Ion

PAD Battery Capacity: 800 mAh

Charging Specifications:
0.75A at 4.25V max

Only use Lithium Ion Battery Charger

Operating Temperature Range:
-30° to +70°C; -22°F to +158°F

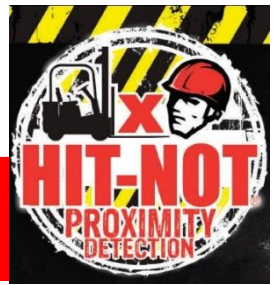
Environmental Considerations:
85 dBa minimum

Shipping Considerations: Contains a
Lithium Ion Battery (packed in
equipment)

Patent #'s US7420471, US5939986,
US6810353, US8169335,
US8232888, AU2005289704,
ZA2007/02919, ZA2008/02673, and
ZA2010/09068 Patent Pending

Users Guide

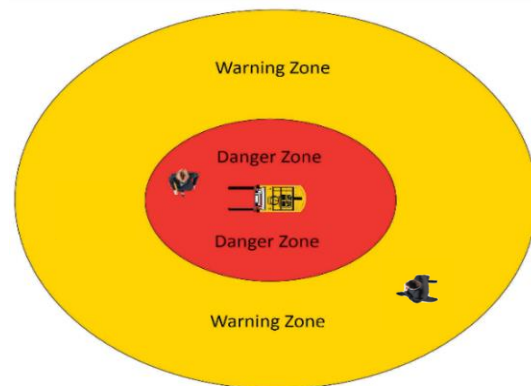
Personal Alarm Device



Frederick Energy Products developed the HIT-NOT® Proximity Detection System to protect pedestrians from “struck-by” accidents. The HIT-NOT® system warns both the vehicle operator and the pedestrian when the pedestrian is at risk of being hit.



The Personal Alarm Device is worn by the pedestrian and contains sensing elements that detect the magnetic field from the generator and initiates warnings for the pedestrian and vehicle operator. The PAD is calibrated to differentiate the magnetic field into two zones: a Warning Zone (Yellow) and a Danger Zone (Red) closest to the vehicle.



As shown, the magnetic fields (zones) are oval in shape and the PAD senses the field without obstruction. The PAD will sense the magnetic field from the generator, determine the threat level (Warning or Danger), confirm the signal, alert the generator of the warning, and turn on its own alarms (audible and visual). When a pedestrian is in the Warning Zone, the LED light and the sounder will give an alarm in a series of 3 beeps. At the Danger Zone, the pedestrian will receive a continuous alarm from the sounder and LED.

Product Specifications

Personal Alarm Device (PAD)

Part Number: HN-PAD

Size: 3.81" x 2.92" / 97mm x 74.2mm

Weight: 4.7oz / 133g

Input Voltage: 3.7 VDC

Magnetic Field: none

Transmitter Frequency: 916 MHz

Transmitter Power: 0.001 W (typical)

Receiver Frequency: 73 kHz signal

PAD Battery: 3.7 VDC Lithium Ion

PAD Battery Capacity: 800 mAh

Charging Specifications:
0.75A at 4.25V max

Only use Lithium Ion Battery Charger

Operating Temperature Range:
-30° to +70°

Environmental Considerations:
85 dBa minimum

Shipping Considerations: Contains a
Lithium Ion Battery (packed in
equipment)

Patent #'s US7420471, US5939986,
US6810353, US8169335,
US8232888, AU2005289704,
ZA2007/02919, ZA2008/02673, and
ZA2010/09068 Patent Pending

The PAD is powered by a Lithium Ion Battery. Lithium Ion batteries have a finite life and eventually need to be replaced. Battery life is based on the number of times it is recharged. Batteries in the HIT-NOT® PADs are designed to be replaced by the user. Remove the 2 screws and the cover on the back to replace the battery in the PAD. The PAD contains a LI-ION 14500 rechargeable cell: 3.7V, 800mAh (2.77Wh, 1.0A rate, flat top, PCB protected)-UN approved. Since this cell is a button top cell with PCB installed, the height is longer than a standard 14500 cell.



Approved batteries/chargers and vendors:

Battery Space (preferred) Part #: LC-14500-750
Phone: (510) 525-2328 Product ID #: 7108
www.batteryspace.com

batteryjunction.com (acceptable)
Phone: (860) 767-8888 Item #: ULTRAFIRE-PROTECTED-14500

The 3.7V Li-ion/Polymer Battery Charger plugs into the charging port and is the standard plug supplied with the battery charger. A red LED light indicates that the battery needs charging and the green light means the battery is fully charged. When the plug is pulled, the sounder on the PAD will activate for approx. 2 seconds to indicate it is in proper working order. Also, the LED light on the PAD will blink every 15 seconds to show that the PAD is working.



Potential Health Effects

Effects of 916MHz PAD Transmission-The FCC's exposure guidelines specify limits for human exposure to RF emissions from hand-held RF devices in terms of Specific Absorption Rate (SAR). The SAR limit is an absorption threshold of 1.6 watts/kg, as measured over any one gram of body tissue. The output power of the HIT-NOT® PAD is 0.001 watts and is well below any limits.