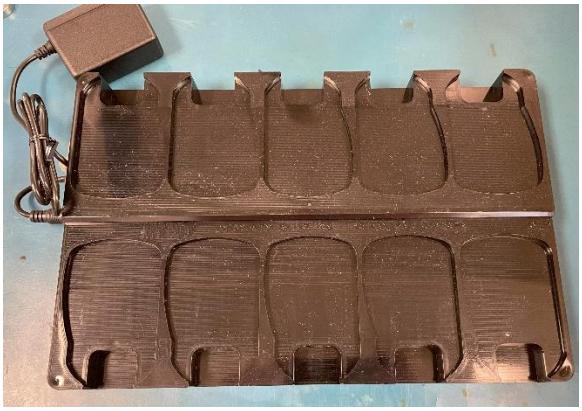
HIT-NOT Proximity System

10 Bay Wireless Charger

Model: DDAC-10P-WCHG

User's Manual v1.0



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US7,420,471; US8,169,335; US8,232,888; US5,939,986; US6,810,353; AU2005289704; ZA2007/02919; ZA2008/02673; ZA2010/06816, ZA2010/09068 Patent Pending

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1 Overview

The DDAC Wireless Charger, model DDAC-10P-WCHG, is part of a complete HIT-NOT® Proximity Detection System from Frederick Energy Products. This device is used to charge the wearable Personal Alarm Device (PAD), worn by pedestrians in facilities utilizing the Hit-Not® system. PADs are placed on the charger after use and are recharged for the next pedestrian.

1.1 Theory of Operation

Functions of the Wireless Charger are:

- To sense the presence of a PAD placed on one of the 10 bays
- Fully charge PAD after use so it is ready for the next user.

The Wireless Charger follows the Qi protocol for wireless charging. It emits a small magnetic pulse between 95-137kHz to detect the presence of a PAD and begin charging.

1.2 Frequency of Operation

The Charger emits a frequency of 95-137kHz.

1.3 FCC/IC Information

The FCC ID for the DDAC Wireless Charger is QUI-DDAC-10P-WCHG. This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Any intentional or unintentional changes or modifications to the configuration of the Personal Alarm Device, not expressly approved by Frederick Energy Products LLC, could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is not guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.

Conformité aux normes FCC Cet équipement a été testé trouvé conforme aux limites pour un dispositif numérique de classe B, conformément à la Partie 15 des règlements de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle.

Cet équipement génère, utilise et peut émettre des fréquences radio et, s'il n'est pas installé et utilisé conformément ment aux instructions du fabricant, peut causer des interférences nuisibles aux communications radio.

Rien ne garantit cependant que l'interférences ne se produira pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou de télévision, qui peut être déterminé en comparant et en l'éteignant, l'utilisateur est encouragé à essayer de corriger les interférence par une ou plusieurs des mesures suivantes:
--Réorienter ou déplacer l'antenne de réception.
--Augmenter la distance entre l'équipement et le récepteur.

--Branchez l'appareil dans une prise sur un circuit différent de celui auquel le récepteur est connecté.
--Consulter le vendeur ou un technicien radio / expérimenté.

Les changements ou modifications à cet appareil sans expressément approuvée par la partie responsable de conformité pourraient annuler l'autorité de l'utilisateur de faire fonctionner cet équipement.

The required notices are specified in the RSS documents (including RSS-Gen) applicable to the equipment model. **These notices are required to be shown in a conspicuous location in the user manual for the equipment, or to be displayed on the equipment model. If more than one notice is required, the equipment model(s) to which each notice pertains should be identified.** Suppliers of radio apparatus shall provide notices and user information in **both English and French.**

This device complies with Industry Canada license-exempt RSS-standards(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avecx Industrie Canada exempt de licence Rss standard(s). Son fonctionnement est soumis aux deux conditions suivantes:
(1) cet appareil ne peut causer d'interférence, et

(2) cet appareil doit accepter toute interférence, y compris des interférences qui peuvent provoquer un fonctionnement indésirable du périphérique.

2 Operation

2.1 Installation Information

The Wireless Charger should be placed flat on a desk or table near the entrance to the facility where the Hit-Not® PADs are being utilized. A standard 110V wall outlet is required for power using the included 5VDC 5A "wall wart" converter.

2.1.1 Inoperability Warning

The Wireless Charger has a red LED on the outside of the unit to indicate power. No other indication is given from the EUT.

2.2 Alerts

The DDAC Wireless Charger does not provide any alerts.

2.3 Maintenance

The Wireless Charger should be kept clean and free of foreign material on the charging pads. The Red LED on the side of the unit indicates power to the unit.

2.4 Adjustments

The Wireless charger is not adjustable by the end user.

2.5 RF Exposure

To comply with FCC and ISED RF Exposure requirements, a minimum separation distance of 20cm should be maintained between the device and all persons during normal operation.

Pour se conformer aux exigences de la FCC et d'ISDE en matière d'exposition aux RF, une distance de séparation minimale de 20 cm doit être maintenue entre l'appareil et toutes les personnes pendant le fonctionnement normal.

2.6 Charger Specifications

Part Number: DDAC-10P-WCHG

Size: 14” x 9.5” x 1.5” / 355.6mm x 240mm x 40mm

Weight: 34 oz./ 0.96kg

Input Voltage: 5 VDC

Magnetic Field Frequency: 95-137kHz

Receiver Frequency: 95-137 kHz signal

Transmitter Frequency: none

Transmitter Power: n/a

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

Shipping Considerations: None

3 Revision History

3.1 Version 1.0 – February 26, 2025

Original Release. No revision history.