Smart Deactivator Manual UL

MANUAL SMART DEACTIVATOR ACCORDING TO UL REGULATIONS

- SMART DEAC Mounting
- SMART DEAC Wiring
- Appendix 1 : Quick Reference

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Safety precautions:



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED NEDAP SERVICE PERSONNEL.



EN 50419:2005

This European Standard specifies a marking

- of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96/ EC (WEEE); This is in addition to the marking requirement in Article 10(3) of this Directive which requires producers to mark electrical and electronic equipment put on the market after 13 August 2005 with a 'crossed-out wheeled bin' symbol.
- that applies to electrical and electronic equipment falling under Annex IA of Directive 2002/96/EC, provided the equipment concerned is not part of another type of equipment that does not fall within the scope of this Directive. Annex IB of Directive 2002/96/EC contains an indicative list of the products, which fall under the categories set out in Annex IA of this Directive:
- that serves to clearly identify the producer of the equipment and that the equipment has been put on the market after 13 August 2005.

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1 Introduction

N.V. Nederlandsche Apparatenfabriek "Nedap", hereafter called "Nedap", is manufacturer of one of the most reliable and scalable EAS Systems in the market today.

With a Nedap EAS system you are able to reduce shoplifting costs to a minimum in combination with Nedap's tagging solutions.

The Nedap Smart Deactivator, also called SMART DEAC, is meant for deactivation of disposable 8.2MHz RF labels

It detects RF labels and hard tags in range of the deactivator antenna and tries to deactivate the rf labels until they are deactivated.

Some of the Smart Deactivator advantages are:

- 1. Constant optimal deactivation distance, independent of the tag frequency between 7.2 8.8 MHz
- 2. Deactivation behavior programmable with switches
- 3. Detect only Mode
- 4. Deactivation on input
- 5. Forced deactivation on input
- 6. Short repeating acoustical feedback for successful deactivation, continuous beep when deactivation is unsuccessful or when a hard tag is detected.
- 7. Prepared for connectivity in RS485 bus structure
- 8. Sends only a deactivation burst when a tag is detected; Low energy consumption
- 9. Through air synchronization with Nedap OS/T systems and other SMARTDEAC 's

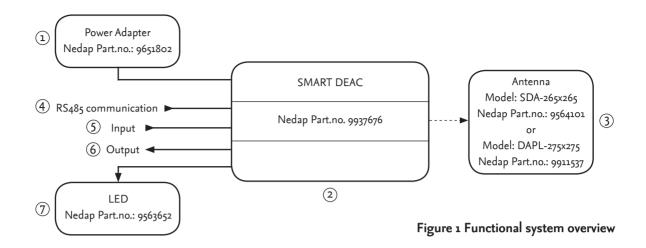
The SMART DEAC produces an acoustic and visual signal when it detects and / or deactivates an operating RF label or hard tag.







2 System overview



The SMART DEAC system (Figure 1) consists of the following components:

- 1. AC/DC Power adapter Wall Mount 100 240 VAC / 12 VDC Nedap Part.no.: (9551802)
- 2. Smart Deactivator electronics (9937676)
- 3. Antenna including cable Model: SDA-265x265 (9564101) or Model: DAPL-275x275 (9911537)
- 4. RS485 connection to communicate with the SMART DEAC
- 5. Input for functionality to be defined
- 6. Output for functionality to be defined
- 7. LED for visual indication (9563652)

The SMART DEAC system is plug & play. You only have to follow the next steps:

- Install the Smart Deactivator system according the instructions;
- Power up the Smart Deactivator system;
- Check the functionality; by deactivating a RF label above the antenna and check it for a audio signal.
- Call Nedap EAS Support for quick hands-on problem solution in case of unforeseen trouble (see Technical Support on page 2)

3 Installation instructions

The SMART DEAC electronics unit must be powered with a NEC class2 type power source like the NEDAP AC/DC power adapter 100~240Vac/12V dc NEDAP part number 9651802.

Always place the unit near a power outlet (less than 1 meter / 3.3 feet), the power outlet should be easily accessible, also after installation.

All the outputs from the SMART DEAC are NEC class2 outputs, output voltages will be 12Vdc or less. The inputs may only be connected to class2 powered system.

The SMARTDEAC must be mounted on a solid, nonflammable surface, using all mounting holes and proper mounting material, according to local regulations.

All wiring should be done according to local regulations.

External LED

An external LED can be connected to the connector pins marked LED + and -. We recommend the use of an UL recognized LED like the APEM red panel mount indicator led type Q14F1CXXRo2.

(V_forward 1,6v +/-10% and I_forward max. 20mA)

The LED output is current limited and short-circuit protected.

4 Regulatory declaration

Compliance statements (part15.19)

This device complies with part 15 of the FCC Rules and to RSS210 of Industry Canada.

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.

Warning (part15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This in particular is applicable for the antenna which can be delivered with the SMART DEAC System.

RF Exposure (OET Bulletin 65)

To comply with FCC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20cm / 8" separation distance between the antenna and all persons.

Information to the User (Part 15.106(b))

Note: This equipment has been tested and found to comply with the limits for a class B digital devices, 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 frequent energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes 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 your local Nedap Business Partner or
- Consult the dealer of the radio communication device(s) or an experienced radio/TV technician for help.

5 Specifications SMART DEAC

Enviromental

Description				
Material Construction	Aluminium			
Protection Class IP20				
	Min.	Typical	Max.	Condition
Operating frequency	7.5 MHz	8.2 MHz	8.8 MHz	
Operational temperature	o °C / 32 °F		40 °C / 104 °F	
Storage temperature	-10 °C / 14 °F		+70 °C / 158 °F	
Relative Humidity	20 %		90 %	non-condensing
Operating Distance		o.3 m / 12"		Tag-dependant

Input Requirements and electrical specifications

Description					
	Min.	Typical	Max.	Condition	
Input Voltage	90 VAC	100-240	264 VAC	Full Range; 50/60Hz	
Input Current	o.35 A	-	o.7 A	264 VAC - 90 VAC	
Line Frequency	47 Hz	50-60 Hz	63 Hz	-	
Operation Voltage					
Power		3 W		230 VAC 50Hz	

Regulations

Safety approvals of the Power Adapter

- cULus according to UL/CSA 60950-1
- CB according to IEC60950-1
- TUV EN60950-1 (2006)
- NEC Class 2
- CE Europe according to EN300330
- Japan PSE

Telecom system approval

- Canada IC according to RSS210 IC ID:1444A-SMARTDEAC
- US according to FCC Part 15 FCC ID:CGDSMARTDEAC
- CE according to EN300330
- Japan pending

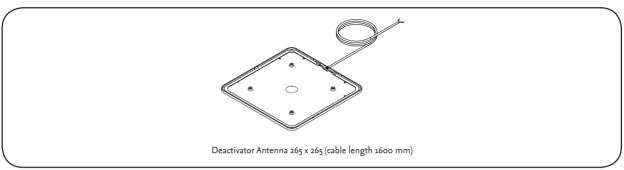
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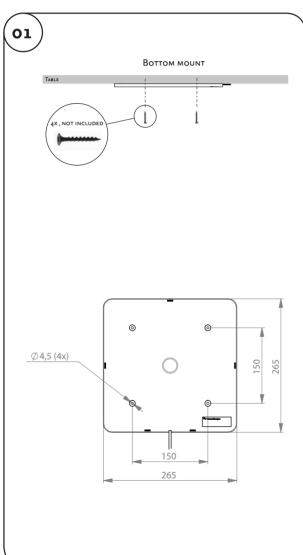
- EN62369-1 and EN50364
- ICNIRP Guidelines
- IEEE C95.1
- RSS102
- ARIB STD-38
- IEC62369-1

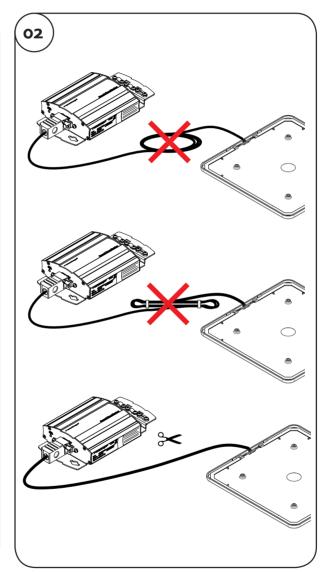
Electromagnetic compatibility

- EN 301 489 (Emission according to EN55022)
- IEC 61000-6-2
- IEC 61000-6-3
- CISPR 22

Deactivator Antenna 265x265



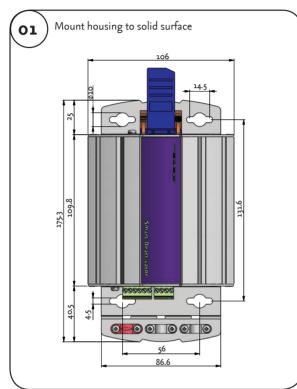


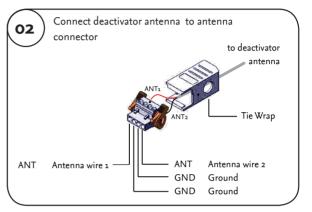


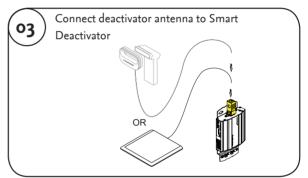
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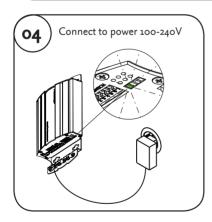
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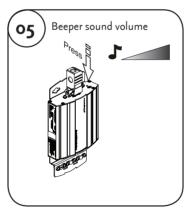


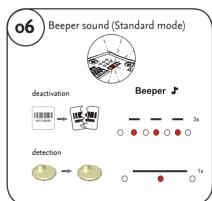




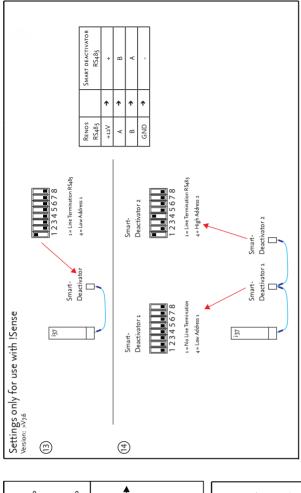


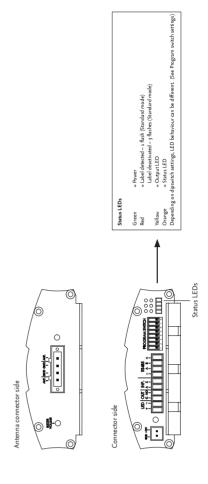


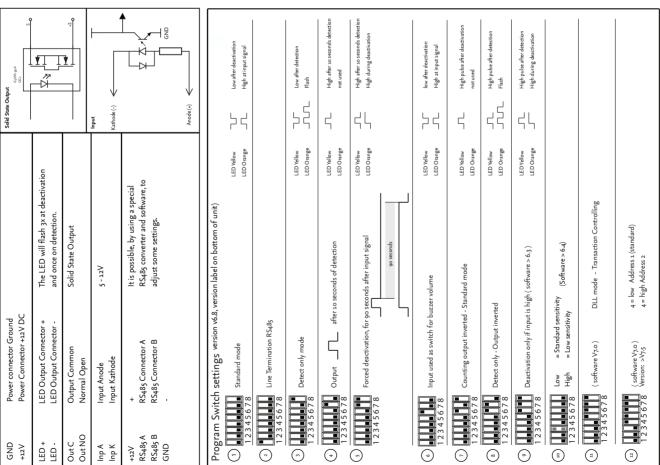


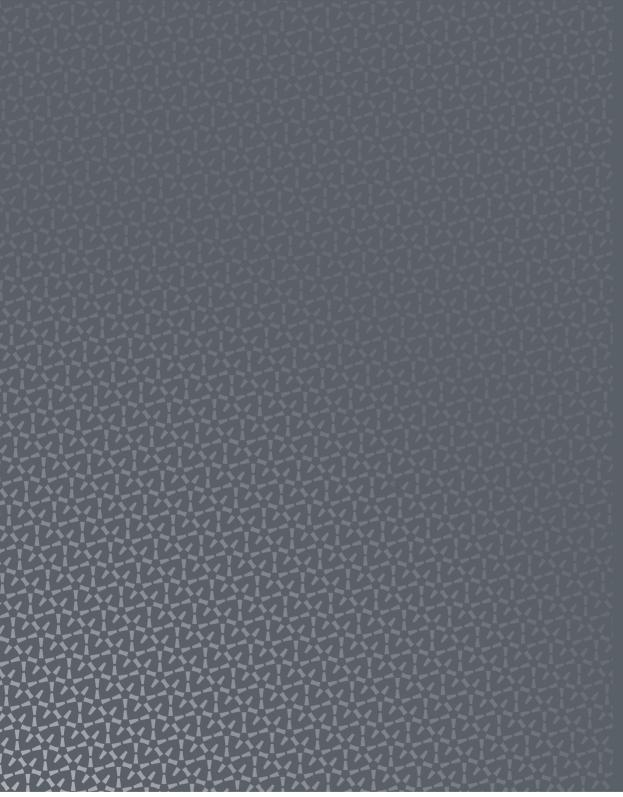


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