

Nedap Flux

Gateway and Reader Installation Manual

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1 Flux Reader



The FLUX READER is a RFID Tag Reader powered by four consumer battery (AA type). It is capable of reading Mifare cards, which info, completed with the info of the pushed button (IN / OUT) will be transmitted to the FLUX GATEWAY. This gateway is connected to the central FLUX system where all received data is processed. To use, present the RFID tag/card and press either the IN or the OUT button. A beep will sound and a green LED will blink

2 Flux Gateway



The FLUX GATEWAY communicates between the FLUX READERS and the central FLUX application. The FLUX GATEWAY is capable of buffering received data from the FLUX READERS in case the communication with the central FLUX application fails. The FLUX GATEWAY is powered on by plugging the power adapter plug into a wall socket. LED's on the side of the gateway will turn on, indicating the device is powered on.

3 Copyright-Disclaimer-Warranty

3.1 Copyright

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3.2 Disclaimer

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3.3 Warranty and spare parts

Please consult the Nedap products dealer from whom you purchased this product, in regards to the applicable warranty conditions. This product cannot be used for any other purpose as described in this document. If the product is not installed according to this document; the warranty provided is not applicable. At the sole discretion of Nedap N.V., Nedap N.V. may decide to change the conditions of the warranty policy. You agree that Nedap N.V. is able to compensate you the pro-rata value of the warranty involved rather than replacing or repairing the product depending on the technical or economical value of the product.

Prior to applying the warranty, please verify if you comply with the warranty conditions of the warranty policy, whether you can successfully apply for the replacement or repair of a defective part.

Parts can only be replaced with original Nedap parts, otherwise the warranty policy will not be applicable on the product.

If the warranty is applicable, please contact the dealer or send the defective parts to the dealer.

4 Installation and use



The products will be disposed of by the end-user and discharge Nedap for any liability or responsibility thereof.

5 Compliancey

Hereby, Nedap N.V. declares that this equipment is in compliance for CE with directives 2014/30/EU (EMC Directive) and 2011/65/EU (RoHS). And for UKCA with SI 2016/1091 (UK EMC Regulations 2016) and UK RoHS Regulations 2012.

Full text of declarations of conformity is available at www.nedapflux.com/nl/hardware-en, where, if applicable, also REACH information can be found.

6 FLUX READER Technical information

General

Model FLUX READER
Product code 9956239

Communication

Wireless 868MHz
13,56MHz MIFARE/DESFire
Optical Status LED

Power 4 x 1.5V AA Batteries

Mechanical

Dimensions (LxBxH) 173x84x50 mm
Weight ± 300 gr
Operating temperature 0 °C – 40 °C
Storage temperature 0 °C – 40 °C
Relative humidity 0 – 93% (non condensing)
Usage Inside (IP20)

7 FLUX GATEWAY Technical information

General

Model	FLUX GATEWAY
Product code	9951650
<u>Communication</u>	
Wireless	868MHz 900/1800 MHz GSM
Optical	Status LEDs
<u>Power</u>	100-240VAC 0.6-0.3A 50-60Hz Adapter included

Mechanical

Dimensions (LxBxH)	211 x 91 x 43 mm
Weight	± 440 gr
Operating temperature	0 °C – 40 °C
Storage temperature	0 °C – 40 °C
Relative humidity	0 – 93% (non condensing)
Usage	Inside (IP20)

8 Flux Reader

8.1 Installation

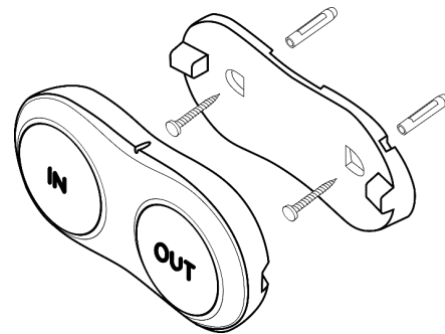
The FLUX READER makes a wireless connection to the FLUX GATEWAY. The maximum distance between READER and GATEWAY strongly depends on any walls, steel constructions and other objects in between.

Attach the READER to a wall or a horizontal surface by means of the back plate included in this package at comfortable height.

Note: The distance between the READER and a metal plate should be at least 2 cm.

Gently click the front to the mounted back plate, your FLUX READER is now ready for use.

The front can be removed again by pressing the small notches at the sides of the FLUX READER.

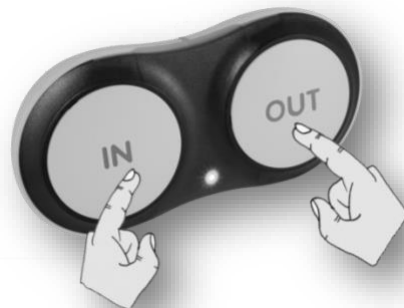


8.2 Testing

The FLUX READER communicates with the FLUX GATEWAY, so for operating and testing the FLUX GATEWAY must be installed and operation.

Testing the FLUX READER can be done by pressing both buttons (IN and OUT) at the same time until the light on the FLUX READER between the buttons turns on:

- If the light is blue, the connection between the FLUX READER and the FLUX GATEWAY is sufficient.
- If the light is rood, there is a connection between the FLUX READER and the FLUX GATEWAY, but it is not very stable. It may be better to move the FLUX READER more towards the GATEWAY.
- If the light blinks red 5 times and 5 beeps are audible there is no connection. The FLUX READER should be moved to a better position.



8.3 Operating

Present card (or slide it into the slot at the upper side) and at the same time press the IN or OUT button according the use:

- A beep will be given and the light will turn GREEN is card and button is correctly processed
- If no beep sounds and no green light turns on, make sure that:
 - The card/tag you are using is a Flux card
 - The card is presented by inserting it into the card slot
 - If it still does not work, please contact our support desk at support@nedapflux.com

8.4 Replacing batteries

In most cases Nedap Flux support will send a replacement Reader when battery levels are low and there should be no need to replace batteries by yourself. If for some reason you do need to replace batteries, follow the following steps to do so:

For replacing the batteries, remove the upper side (see installation instructions):

- Remove the original batteries
Pay attention to the local laws/regulation for disposal of the used batteries.
- Place new batteries, specifications must identical to the original batteries: 4x AA battery of 1.5V, (don't use reloadable batteries). Pay attention that the batteries are placed correctly according their polarity.
- Re-mount the upped side and test if the FLUX READER is working correctly now.

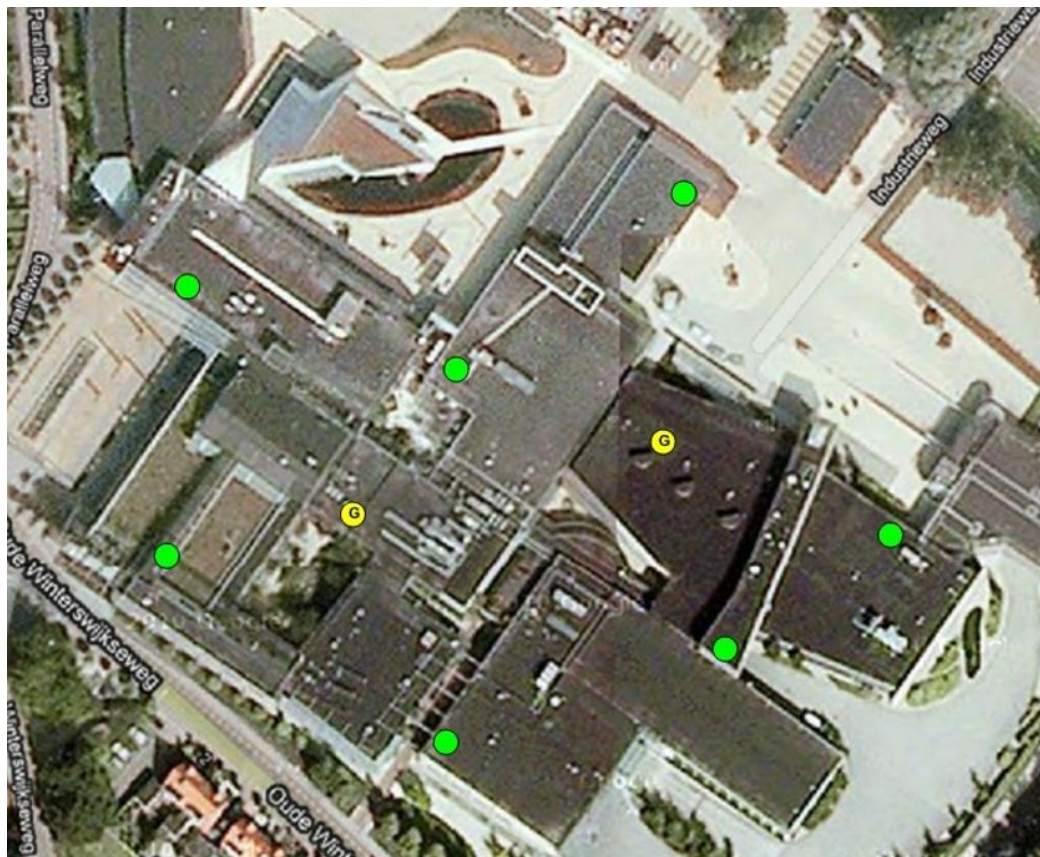
9 Flux Gateway

9.1 Installation

For a well-functioning system with FLUX GATEWAYS and READERS, please consider the following:

- Think carefully about where to place the FLUX READERS
- The GATEWAY must be plugged into a power outlet. The optimal placement of a GATEWAY is a vertical orientation at about 2m height
- READERS make a wireless connection to the GATEWAY. The maximum distance between READERS and GATEWAY strongly depends on any walls, steel constructions and other objects in between
- A GATEWAY can receive registrations from multiple READERS and should be placed as centrally as possible in relation to the READERS
- A READER should not be placed directly on metal. Please install a wooden plank of at least 2cm thick in between.

An example of an installation is:



- G FLUX GATEWAY
- FLUX READER

9.2 LED Indications for testing

The FLUX READER communicates with the FLUX GATEWAY, the GATEWAY communicates with the central server. The three LEDs show the state of the FLUX GATEWAY :

- Upper LED: Green LED, indicating the device is powered ON
- Middle LED: Red LED, first: turned ON (no blinking): the device is booting. When blinking once every 2 seconds, the device has successfully connected to the mobile network.
- Lower LED: White LED, only lights up briefly during startup.

9.3 Operating

See indications of the LEDs to check the availability of the GATEWAY.

- When Middle, Red LED does not start to blink after circa 90 seconds, make sure the GATEWAY is not mounted on or near metal. If it is not mounted on or close to metal, try moving the GATEWAY to a different location and try again. If this still does not solve the problem, please contact support at support@nedapflux.com

10 Cleaning

Don't use chemical substances as alcohol or ammonia for cleaning the FLUX READER and GATEWAY. A slightly damp microfiber cloth will be sufficient for cleaning.

11 Problem solving

FLUX READER is not reacting: Check functionality by pressing IN and OUT button simultaneously for 2 seconds to check if the connection to FLUX GATEWAY is correct. If connection can be made, a blue light will blink briefly. If not, move the FLUX READER closer to the FLUX GATEWAY. If this does not work, please contact support at support@nedapflux.com.

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