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# **V3 CLESS**

## **User Manual**

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## FOREWORD

**INSTALLATION.** We recommend you to read these instructions very carefully. They are included with your V3 CLESS Reader in order to explain its installation.

**USE.** Once it is installed and equipped with the application you case use your V3 CLESS reader.

**GUARANTEE AND SAFETY.** In order to benefit from the guarantee on this equipment and in order to follow the safety instructions, only authorized person shall entrust assembly or disassembly procedures and installed the reader.

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## 1- SAFETY INSTRUCTIONS

### **A- In order to power down your V3 CLESS :**

Disconnect the V3 CLESS power supply block from the electric power supply network

### **B- Electrical power supply**

Only use Flowbird CLESS reader cable

Only use Flowbird antenna cable with it's Ferrite for EMI protection

The V3 CLESS input voltage should be +12VDC +/- 10%

### **C- Reader cover Flap**

The cover flap located on the side ( see chapter – installation and removal of Sams) must be in place during normal operation

### **D- Warning**

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

This device must be professionally installed

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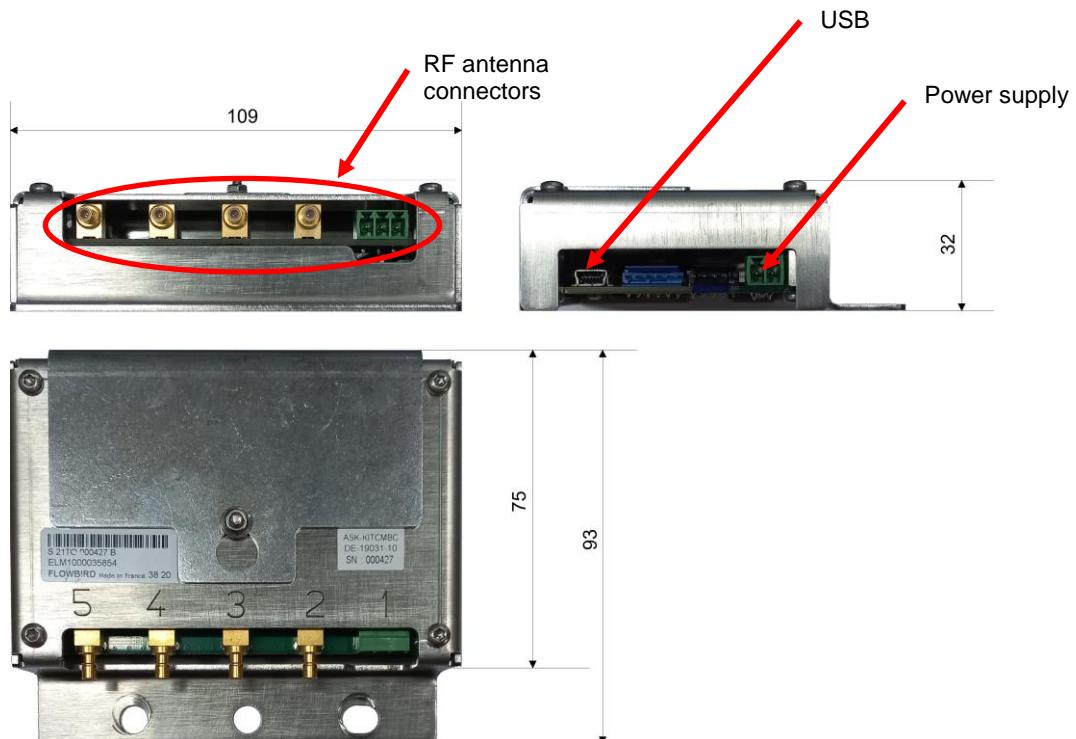
## 2- UNPACKING. PRODUCT CONTENTS

Carefully preserve the packaging of the V3 CLESS and the antenna. It must be re-used whenever the reader is shipped.

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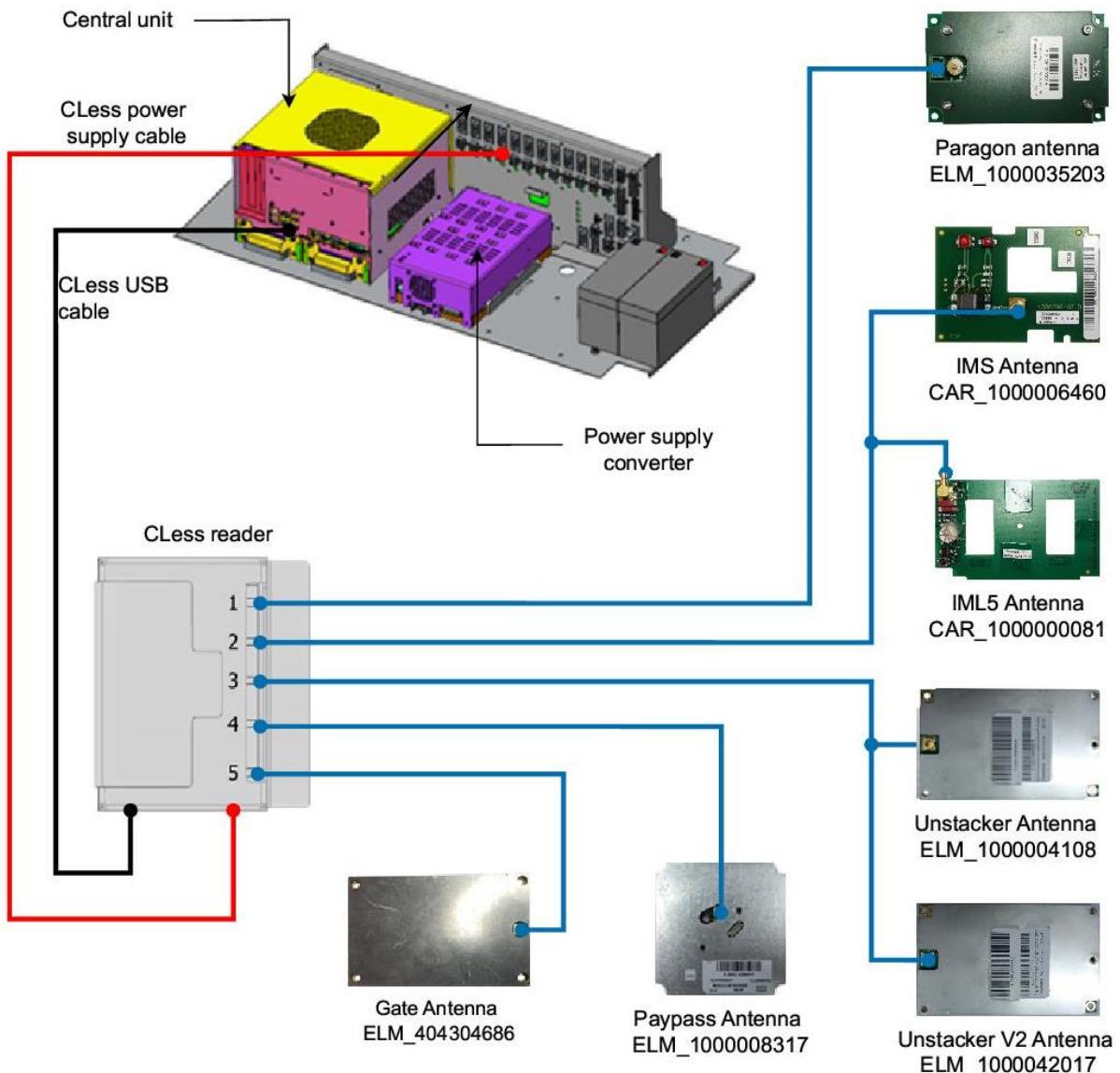
### 3- DESCRIPTION OF THE RF READER

Reminder of Safety Instructions :  
Select the recommended electrical power



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### Diagram of connection



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Only 7 different antennas can be integrated ( ref ELM\_404304686 / ELM\_1000004108 / CAR\_10000000081 / CAR\_1000006460 / ELM\_1000008317 / ELM\_1000035203 / ELM\_1000042017)

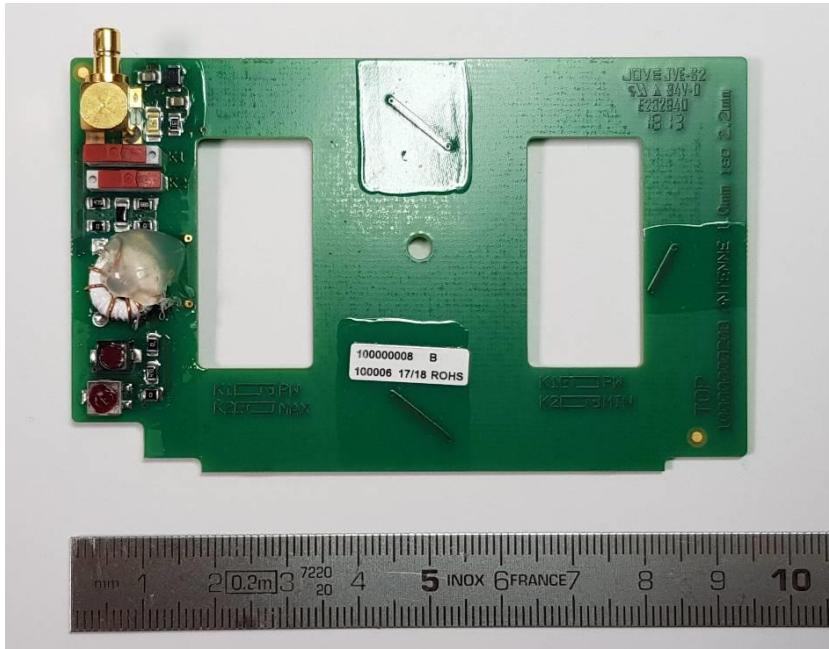


Gate antenna Top (ELM\_404304686)

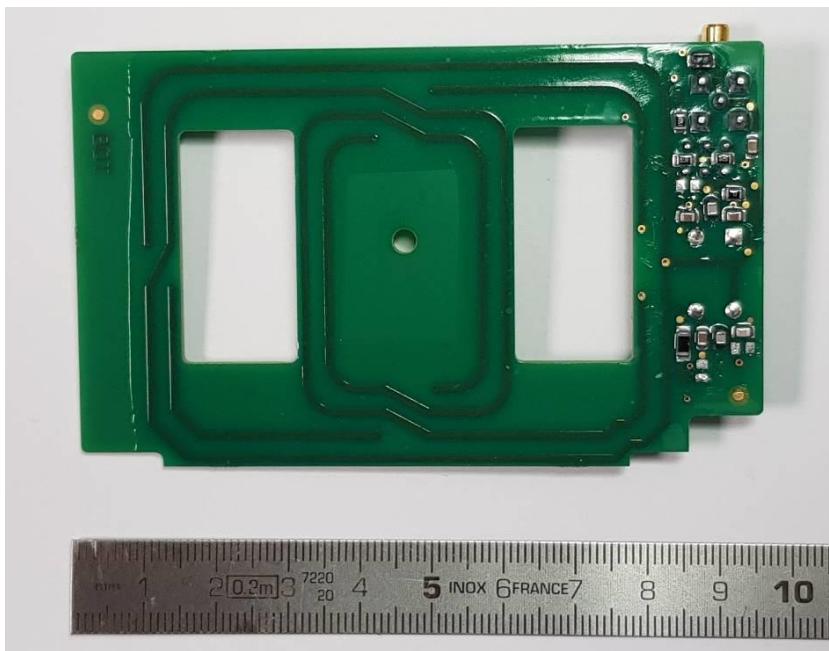


Gate antenna Bot (ELM\_404304686)

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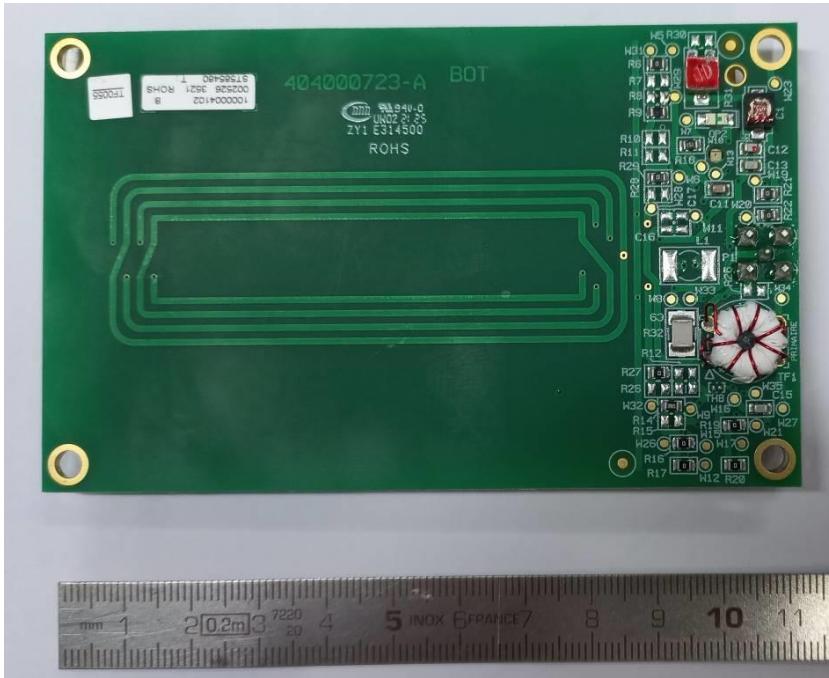


IML5 antenna Top (CAR\_1000000081)



IML5 antenna Bot (CAR\_1000000081)

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Unstacker antenna Top (ELM\_1000004108)

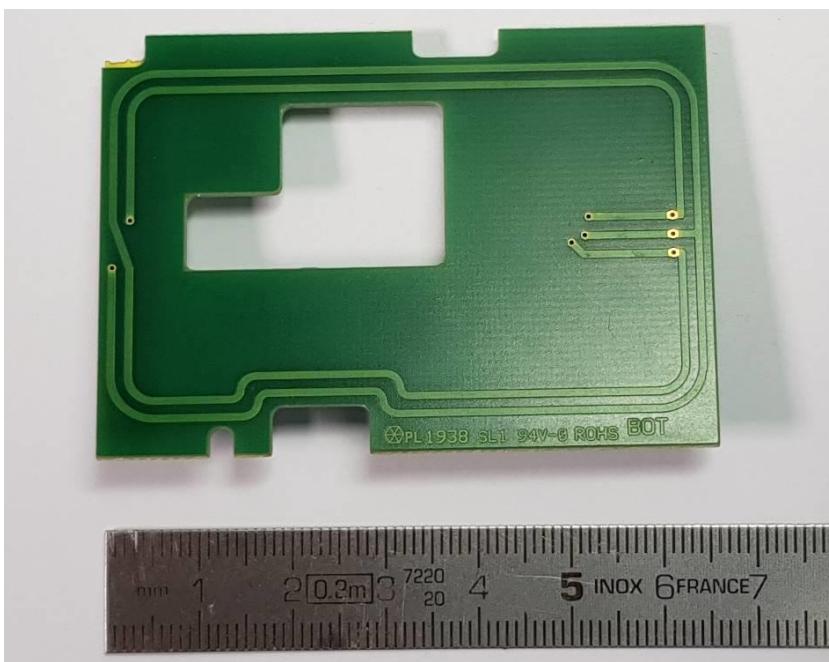


Unstacker antenna Bot (ELM\_1000004108)

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IMS antenna Top (CAR\_1000006460)



IMS antenna Bot (CAR\_1000006460)

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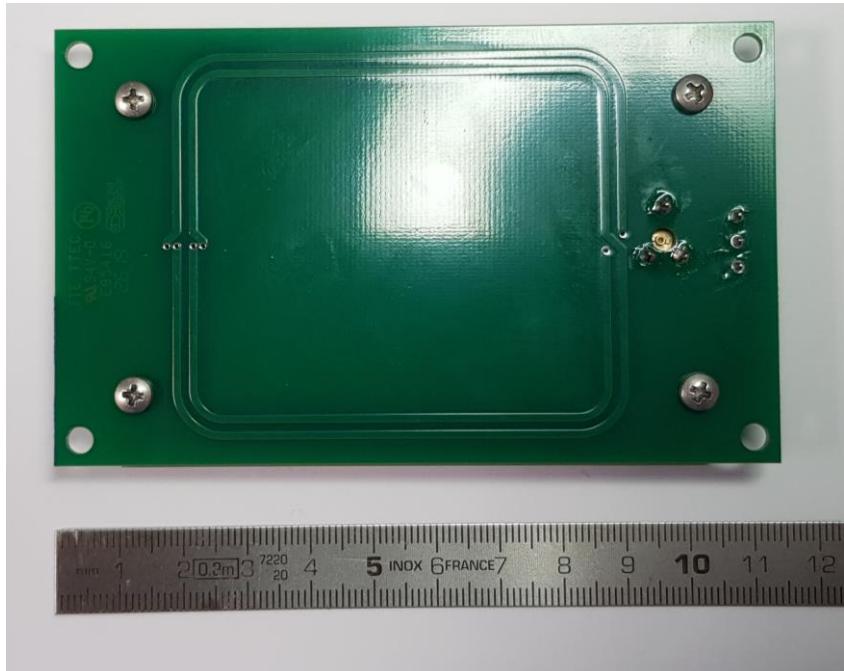


Paypass antenna Top (ELM\_1000008317)



Paypass antenna Bot (ELM\_1000008317)

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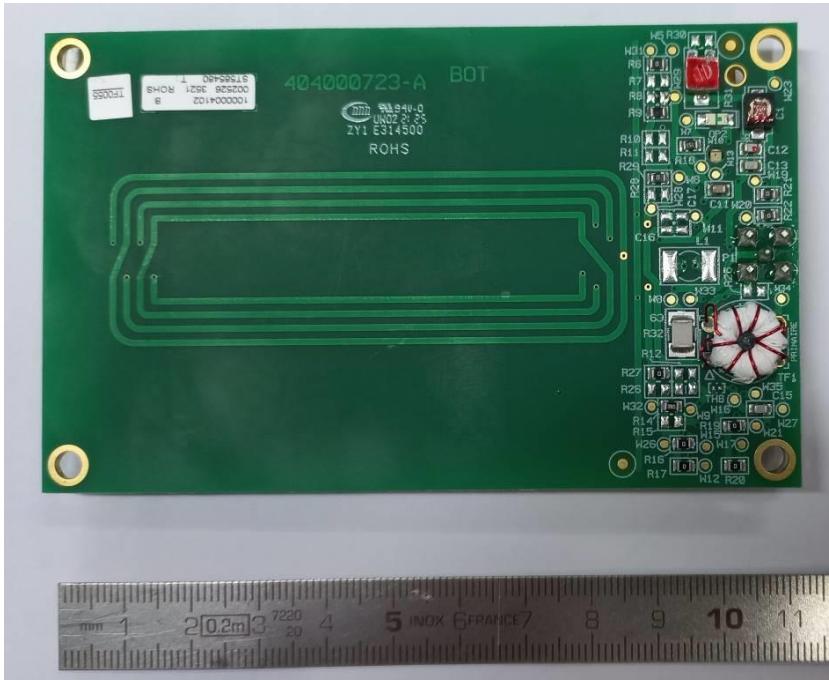


Paragon antenna Top (ELM\_1000035203)



Paragon antenna Bot (ELM\_1000035203)

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CLess unstacker V2 antenna Top (ELM\_1000042017)



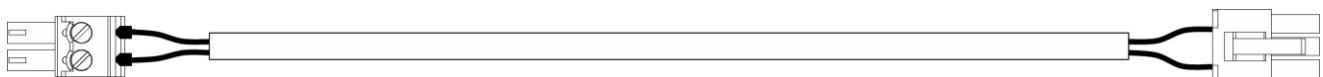
CLess unstacker V2 antenna Bot (ELM\_1000042017)

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## Contactless reader cabling

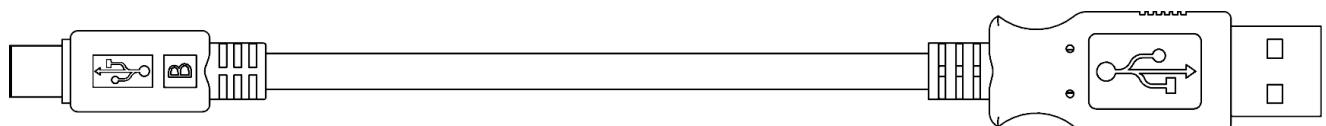
### Power cable

The CLESS reader is supplied with the connection card via a cable marked "PARAGON READER".



### Communications cable

The connection between the CLESS reader and the PC is made with a USB/mini USB cable



### Antenna cables

The connection between the reader module and the ELM\_404304686 / ELM\_1000004108 / CAR\_10000000081 / CAR\_1000006460 / ELM\_1000008317 / ELM\_1000042017 antennas is made with a coaxial cable. This cable is equipped with 2 Wurth ferrites N°742 711 12 with double cable routing inside. They are positioned at each end of the cable.



The connection between the reader module and the ELM\_1000035203 antenna is made with a shielded cable, 2 conductors. This cable is equipped with a Wurth 742 712 21 ferrite. They are positioned as close as possible to the reader.



## 4- INSTALLING THE V3 CLESS

### 4.1 CLESS reader

Tools required: an 8 mm open-end spanner

Time required for the intervention: 2 min

Other components to remove/Preliminaries: switch off the power to the devices in EMS mode or with the button on the front of the CPU.

Screw the two bolts holding the CLESS READER.

Connect the cables on CLESS reader.



Press the power button device of the CPU.

Perform a functional test using the "test connection map" from the menu EMS "travel card reader".

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## 4.2 Antenna

Tools required: none  
Clip the antenna into the bracket  
Connect the antenna cable.



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## 5- INSTALLING AND REMOVING SECURITY ACCESS MODULES

Tools required: an 5.5 mm open-end spanner

Time required for the intervention: 2 min

Unscrew the nut that secures the SAM access panel.

Remove the cover.

Insert the SIM cards.

Replace the cover.

Tighten the nut that locks the door.



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## 6- DAILY USE

No specific care shall be done. Clean the antenna each year with Isopropanol

## 7- V3 CLESS CHARACTERISTICS

### Physical Characteristics

Mass : approximately 300g without cable

Dimensions : approximately 109x93x32 mm (LxWxH)

### Standards

See "EC standard compliance marking" in appendix

### Operating conditions

Class II equipment

Electric supply network : 12VDC +/- 10%

Max. consumption : 0.5 A

Ambient temperature : from -20°C to +60°C

Max. relative humidity : 90% at +60°C

Communication : USB2.0 full speed interface

### Storage conditions

Storage temperature : -40°C, +70°C

Max relative humidity : 90% at +60°C

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## 8- EC STANDARD COMPLIANCE MARKING

This product complies with the rules for CE marking. The applicable directives depend on the presence of the radio communication option:

The product complies with the following directives:

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the law of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC

Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

## 9- FCC COMPLIANCE STATEMENT

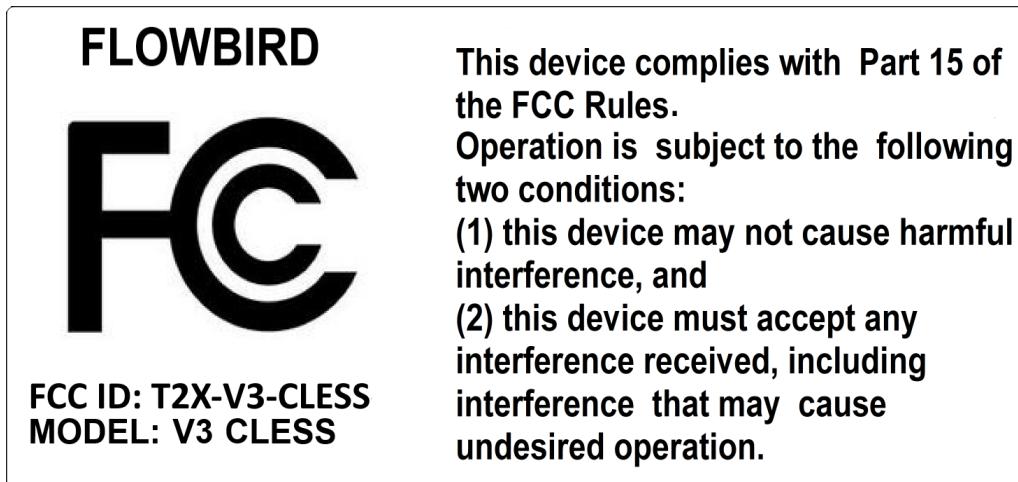
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no 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

This equipment complies with FCC's radiation exposure limits set forth for an uncontrolled environment under the following conditions :

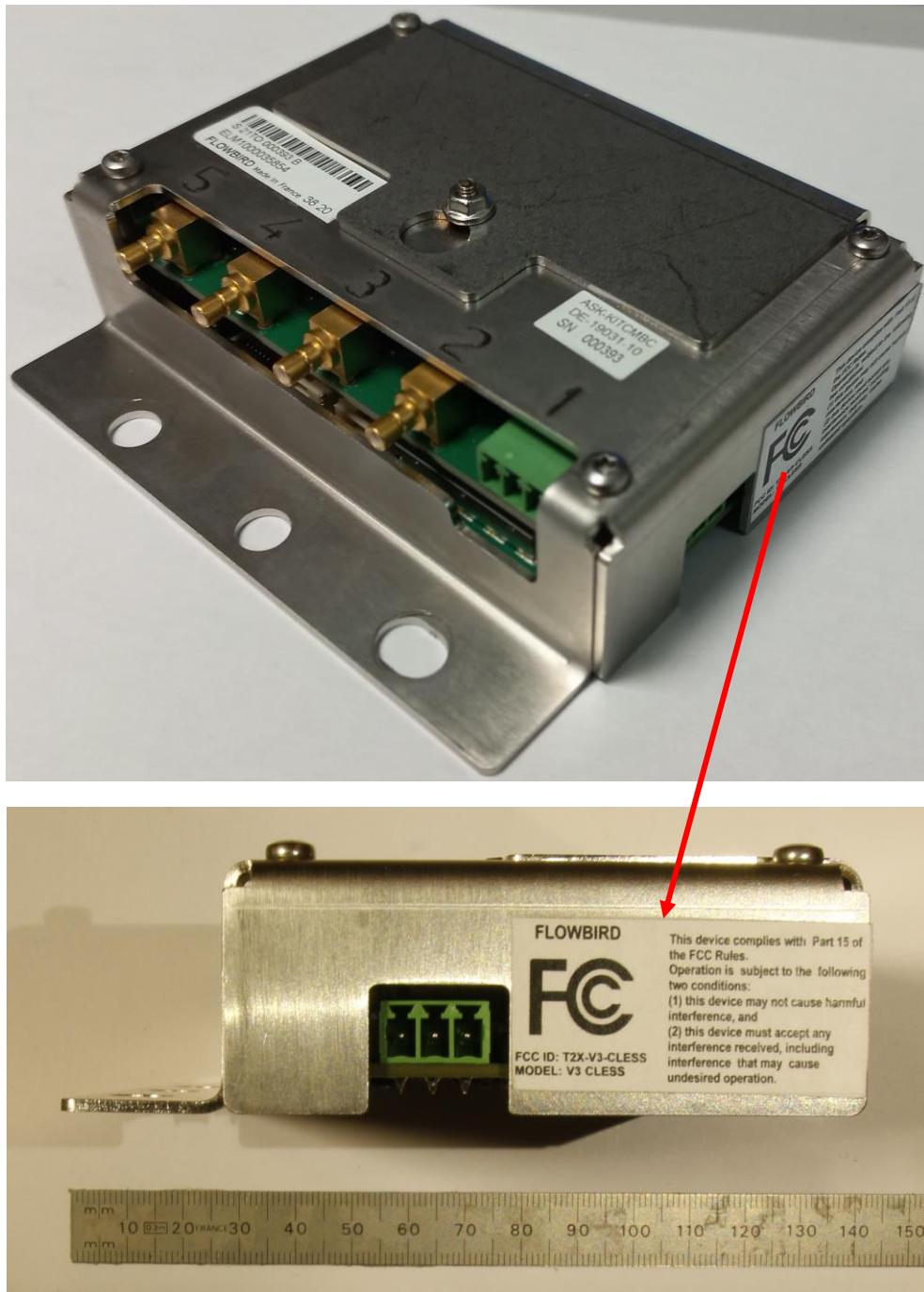
1. This equipment should be installed and operated such that a minimum separation distance of 20cm is maintained between the radiator (antenna) and user's/nearby person's body at all times.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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FCC label placed on the CLESS reader

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#### POSITION OF THE FCC ID

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