



ZIGBEE Template: Release October 12th, 2021

# **TEST REPORT**

# N°: 13238937-774896-B

Version: 02

# Radio spectrum matters tests according to standards: RSS-102 Issue 5

IJINUS 25 Zone d'activité de KERVIDANOU 3, 25 rue A. Schweitzer 29300-MELLAC France

# Apparatus under test

🗞 Product

Subject

Issued to

♦ Trade mark

- Schule Manufacturer
- ♦ Model under test
- Serial number
- 🏷 FCC ID
- ♥ IC

# Conclusion

Test date Test location ISED Test site Composition of document

Document issued on

Written by : Julien PALARD Tests operator Wireless sensor IJINUS IJINUS A0102 IJA0102-0000 0111 SE6A002 10983A-A002

# PASS

March 28, 2022 Fontenay Aux Roses & Ecuelles 6500A-1 & 6500A-3 8 pages

April 25, 2022

Approved by : trick TEIXEIRA utical manager tieral Leoler UNTENAY AUX

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# LCIE

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# **PUBLICATION HISTORY**

Version	Date	Author	Modification
01	April 25, 2022	Julien PALARD	Creation of the document
02	April 25, 2022	Julien PALARD	Creation of the document

Each new edition of this test report replaces and cancels the previous edition. The control of the old editions of report is under responsibility of client.



	SUMMARY				
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#### 1. **TEST PROGRAM**

## **References**

### > RSS-102 Issue 5

		Test result - Comments				
☑ PASS			□ NP(1)			
This table is a summary of test report, see conclusion of each clause of this test report for detail.						
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PASS: EUT complies with standard's requirement FAIL: EUT does not comply with standard's requirement NA: Not Applicable NP: Test Not Performed



# 2. EQUIPMENT UNDER TEST: CONFIGURATION (DECLARED BY PROVIDER)

#### 2.1. INFORMATIONS

Exemple d'information pour la qualification d'une gamme, dans le cas ou l'option full option a été testé -Tests are performed on the most complete product **IJINUS**, SN: **IJA0102-0000 0111**. See Table below for difference between products.

We, IJINUS, declare that all the following products (PMNs) are based on the same electronics card and same mechanical basis. The products are electrically based on a mother board shared by all the A0102 products. This mother board manages the global control, the memory, and the ISM radio short range communication. Depending on the needed functionalities different peripherals can be added to the common basis.

Below are listed the specific features of all the PMNs:

PMN	Features added to the common basis
LNU06V4	Level ultrasonic sensor (6m max)
LNU10V4	Level ultrasonic sensor (10m max)
CNU06V4	Level ultrasonic sensor (6m max) with 4-20mA output
CNU10V4	Level ultrasonic sensor (10m max) with 4-20mA output
LOGAZV4	Gas concentration sensor
LP025V4	Pressure sensor
BANV4	Electrochemical sensor (housing surrounded by a buoy)
LOG03V4	Datalogger with Digital and 4-20mA inputs
LOG04V4	Datalogger with Digital and RS485 inputs
LOG09V4	Datalogger with Digital, 4-20mA and RS485 inputs
LOG10V4	Level sensor with external ultrasonic probe

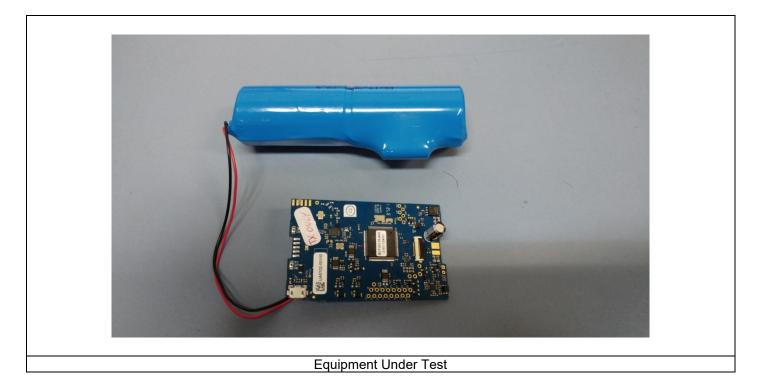


# Equipment under test (EUT): IJINUS A0102

# Serial Number: IJA0102-0000 0111







# Power supply:

Name	Туре	Rating	Reference / Sn	Comments
Supply1	□ AC □ DC ☑ Battery	3.6V	FANSO ER34615H-2+1025	

# Inputs/outputs - Cable:

Access	Туре	Length used (m)	Declared <3m	Shielded	Under test	Comments
-	-	-				

# Auxiliary equipment used during test:

Туре	Reference	Sn	Comments
-	-	-	-



# 3. **RF Exposure Compliance For Exemption From Routine Evaluation Limits**

#### 3.1. TEST CONDITIONS

Calcul performed by: Julien PalardDate of test: March 28, 2022Ambient temperature: -

#### 3.2. RESULTS

# MOBILE

#### **Calculation:**

RSS-102 issue 5 / 2.5.2 Exemption Limits for Routine Evaluation — RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- ✓ below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- ✓ at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where *f* is in MHz;
- ✓ at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- ✓ at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2  $f^{0.6834}$  W (adjusted for tune-up tolerance), where *f* is in MHz;
- ✓ at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Frequency (lowest worst case) in MHz:	914,800
Limit of time-averaged in W:	1,4
Antenna output power in dBm:	9,92
Antenna gain in dBi:	0,0
EIRP in mW:	9,82

RF interface 1: 9.82 mW