

# TEST REPORT

Company : Airgain, Inc  
Address : 3611 Valley Centre Drive, Ste. 150, San Diego, CA 92130 USA  
Sample Name : AirgainConnect Fleet  
Model Name : AirgainConnect Fleet  
Date Received : FEB 06, 2024  
Date Tested : FEB 06, 2024 ~ FEB 11, 2024

Signed for and on behalf of  
**DEKRA iST Reliability Services Inc.**

*Injel Chen*

Approver

*Injel Chen*

Reviewer

*Angus. wu*

Engineer



## REVISION HISTORY

Rev.	Date	Author	Revision Description
A	MAY 03, 2024	Christine Wu	First release

## TABLE OF CONTENTS

- 1. GENERAL INFORMATION ..... 4**
  - 1.1 DESCRIPTION OF UNIT ..... 4
  - 1.2 UNIT OPERATING CONDITION ..... 4
  
- 2. TEMPORARY IMMERSION TEST ..... 5**
  - 2.1 TEST EQUIPMENT ..... 5
  - 2.2 LABORATORY AMBIENCE CONDITION..... 5
  - 2.3 REFERENCE DOCUMENT ..... 5
  - 2.4 TEST CONDITION..... 5
  - 2.5 SUMMARY OF TEST ..... 5
  - 2.6 PHOTO OF TEST ..... 6
  
- 3. DUST TEST ..... 9**
  - 3.1 TEST EQUIPMENT ..... 9
  - 3.2 LABORATORY AMBIENCE CONDITION..... 9
  - 3.3 REFERENCE DOCUMENT ..... 9
  - 3.4 TEST CONDITION..... 10
  - 3.5 SUMMARY OF TEST ..... 10
  - 3.6 PHOTO OF TEST ..... 11

## 1. GENERAL INFORMATION

### 1.1 DESCRIPTION OF UNIT

Manufacturer : Airgain, Inc

Sample name : AirgainConnect Fleet

Model name : AirgainConnect Fleet

Serial number, Sample configuration and Sample quantity are shown in below list : (Total of 2 units)

Serial number	Sample configuration	Sample quantity
3133	NEMA waterproof enclosure with ribs surface	1 unit
3198	NEMA waterproof enclosure with flat surface	1 unit

### 1.2 UNIT OPERATING CONDITION

None

## 2. TEMPORARY IMMERSION TEST

### 2.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date	Test Location
CHTEK CH-2010-78	---	NCR	No.19, Puding Road
Tape Measure : 5.5M	A040623301	JUL 18, 2023	

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 %

### 2.3 REFERENCE DOCUMENT

This test method refers to IEC / EN 60529 IPX7 (2013) Temporary Immersion Test Protected.

### 2.4 TEST CONDITION

Units are non-operating.

The water temperature is +25 °C

The lowest point of unit is locating 1000 mm below surface of the water.

The duration of test is 30 minutes

### 2.5 SUMMARY OF TEST

After testing, visual inspection showed no water permeated into units.

## 2.6 PHOTO OF TEST

Setup



After testing

No water permeated into unit

3133



**After testing**

No water permeated into unit

3198



### 3. DUST TEST

#### 3.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date	Test Location
Vötsch VDT 1000A	59566059640010	MAR 23, 2023	No.19, Puding Road

#### 3.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 %

#### 3.3 REFERENCE DOCUMENT

This test method refers to IEC / EN 60529 IP6X (2013) Dust Test Protected.

### 3.4 TEST CONDITION

Units are non-operating.

Dust material : Talcum powder (100% dry fine)

Particle size	Amount (%)
< 5 µm (Diameter)	39.88% ± 5
5 to 10 µm (Diameter)	32.19% ± 5
10 to 20 µm (Diameter)	23.13% ± 5
20 to 42 µm (Diameter)	4.8% ± 5
> 42 µm (Diameter)	0%

Amount of talcum powder : 2 kg/m<sup>3</sup> (chamber volume)

Dust density : 2.03 g/cm<sup>3</sup>

Depression level : 20 mbar (2 kPa)

Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 8 hours

### 3.5 SUMMARY OF TEST

3.5.1 After testing, visual inspection showed no dust particle permeated into units.

3.5.2 After testing, the function inspection of all samples was performed by ZYXEL, Inc (Without 3rd party lab DEKRA - iST person participated)

3.5.3 To follow customer requirement, attached functional inspection result as below table :

Sample name	Test result
AirgainConnect Fleet	After testing, the function of units was normal.

### 3.6 PHOTO OF TEST




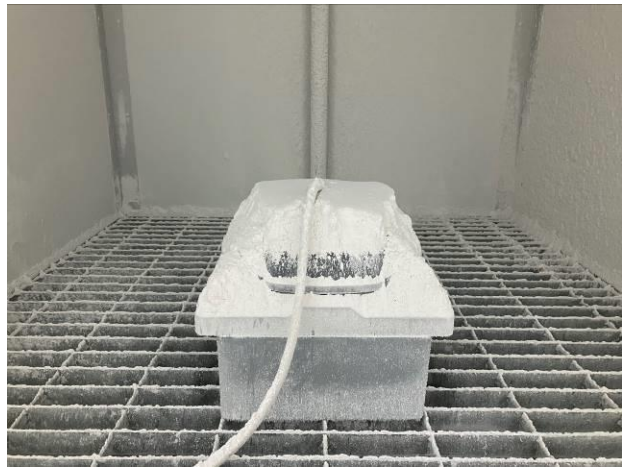
Depression level

3133



3198



Setup	
3133	
Before testing	
	
After testing	
	

**Setup**

3198

**Before testing**



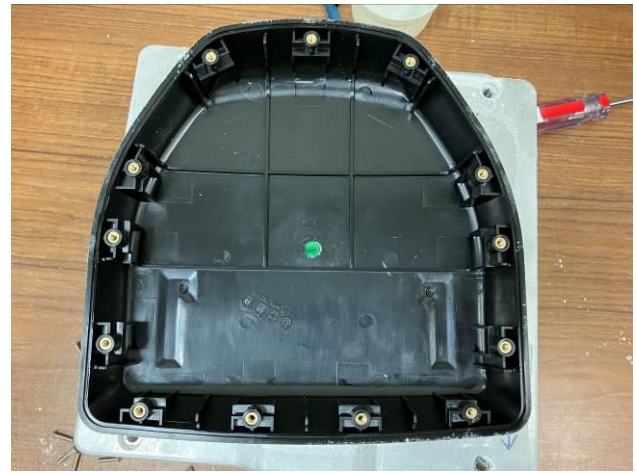
**After testing**



After testing

No dust particle permeated into unit

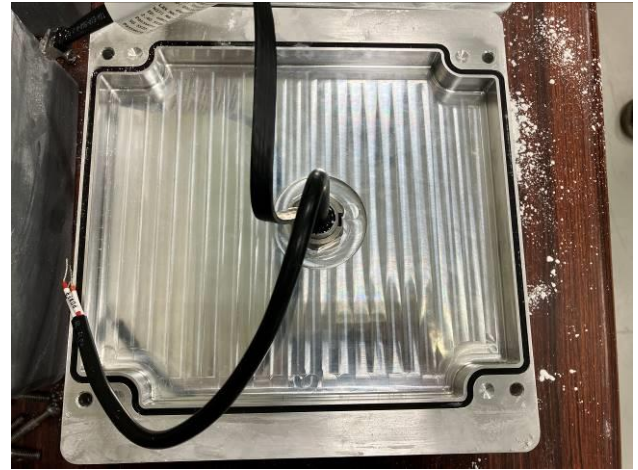
3133



After testing

No dust particle permeated into unit

3198



--- End of report ---

This report will be invalid if duplicated or photocopied in part. This report refers only to the specimen(s) submitted to test, and is invalid as separately used. This report is invalid without examination stamp and signature of this institute. The tested specimen(s) will be preserved for thirty days from the date issued, if not taken back by the applicant. Please feedback within one month if you have any questions. This report is only used for the purpose of research, teaching, internal quality control and product research.