

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 09, 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. DUST 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. HIGH PRESSURE WASH TEST 11**
 - 3.1 TEST EQUIPMENT 11
 - 3.2 LABORATORY AMBIENCE CONDITION..... 11
 - 3.3 REFERENCE DOCUMENT 11
 - 3.4 TEST CONDITION..... 11
 - 3.5 SUMMARY OF TEST 11
 - 3.6 PHOTO OF TEST 12

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
3131	NEMA waterproof enclosure with flat surface	1 unit
3158	NEMA waterproof enclosure with ribs surface	1 unit

1.2 UNIT OPERATING CONDITION

None

2. DUST TEST

2.1 TEST EQUIPMENT

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

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 IP6X (2013) Dust Test Protected.

2.4 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/m³ (chamber volume)

Depression level : 20 mbar (2 kPa)

Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 8 hours

2.5 SUMMARY OF TEST

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

2.6 PHOTO OF TEST

Depression level

3131

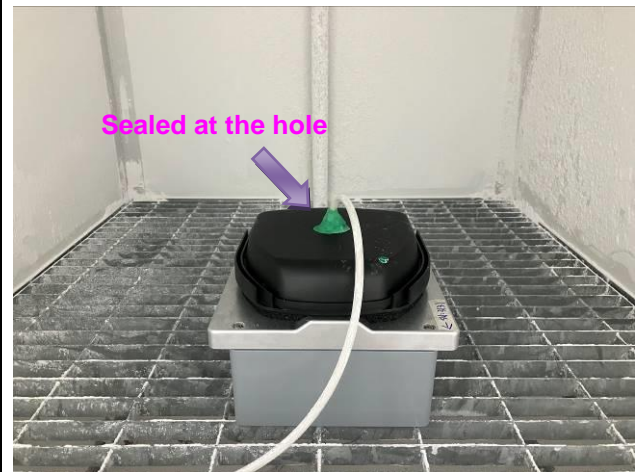


3158

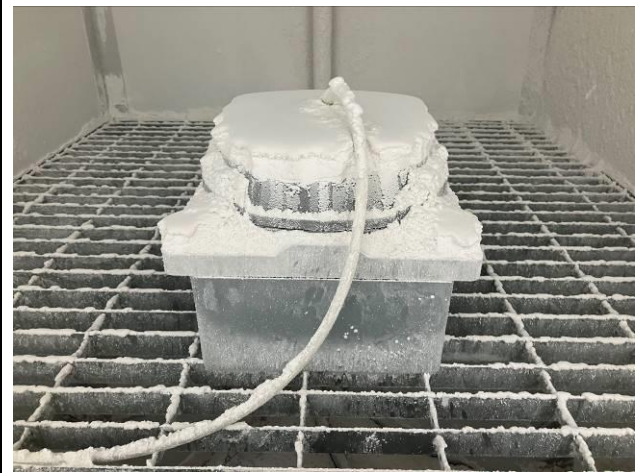


3131

Setup for before test

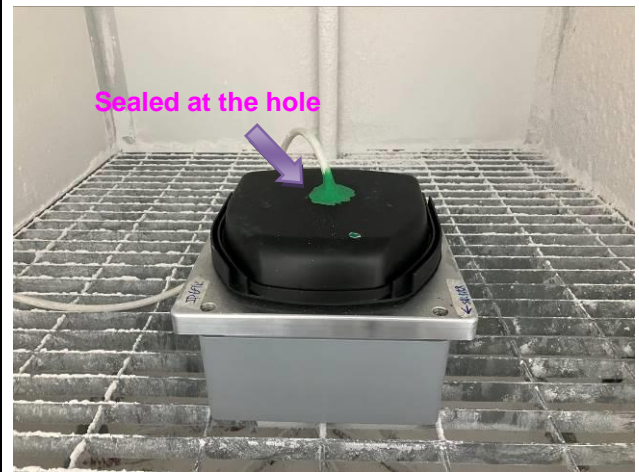
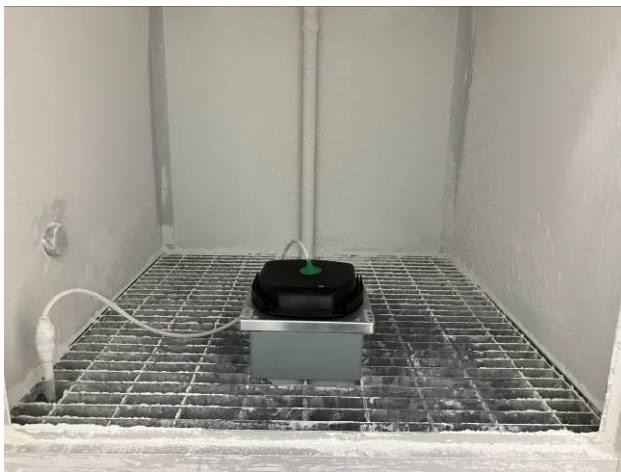


Setup for after test

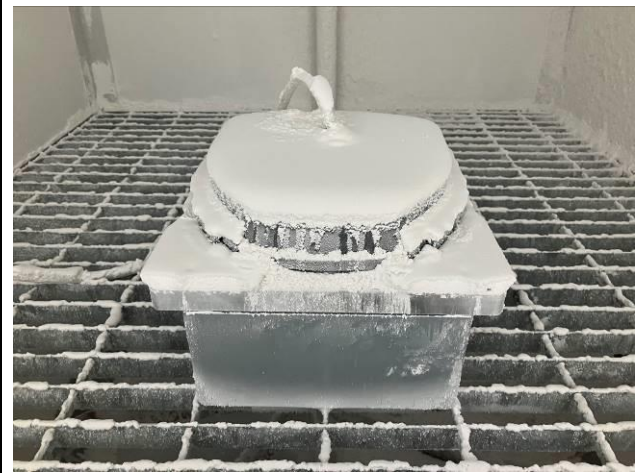


3158

Setup for before test



Setup for after test



After testing

The appearance of unit was normal (No dust particle permeate into inner of the unit)

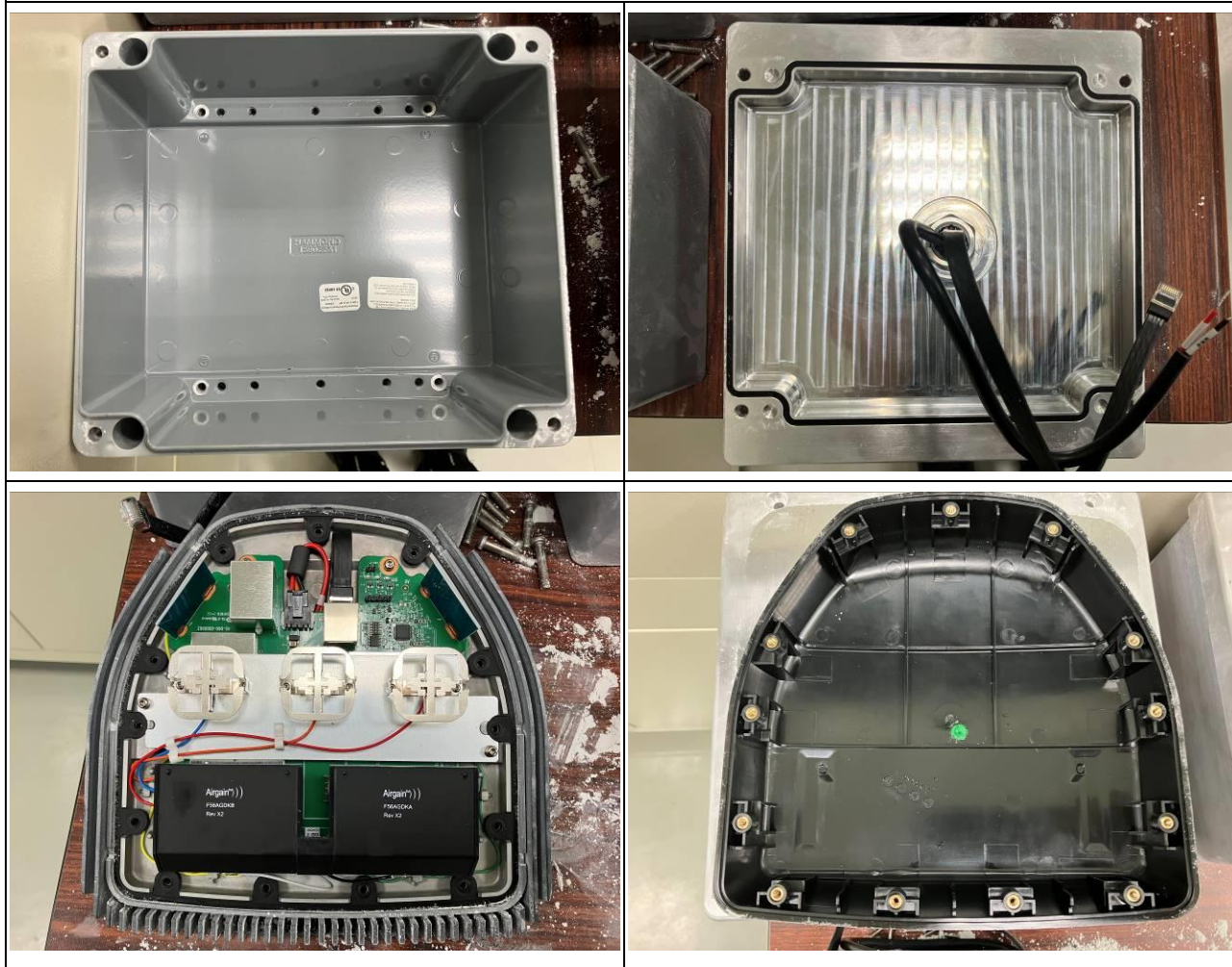
3131



After testing

The appearance of unit was normal (No dust particle permeate into inner of the unit)

3158



3. HIGH PRESSURE WASH TEST

3.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date	Test Location
CHTEK CH-2010-D	CH-2010-D180301	FEB 05, 2024	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 ISO 20653 - IPX9K (2013) High Pressure Wash Test Standard and Procedure.

3.4 TEST CONDITION

Unit will be turned off and washed with high pressure spray.

Water temperature : 80 ± 5 °C

Reference point : 0°, 30°, 60° and 90°

Water pressure : 8000 to 10000 kPa

Table rotation speed : 5 ± 1 rpm

Distance of nozzle : 100 to 150 mm (from nozzle to specimen)

Water flow rate : 14 to 16 L / minute

Duration of test : 30 seconds per position

3.5 SUMMARY OF TEST

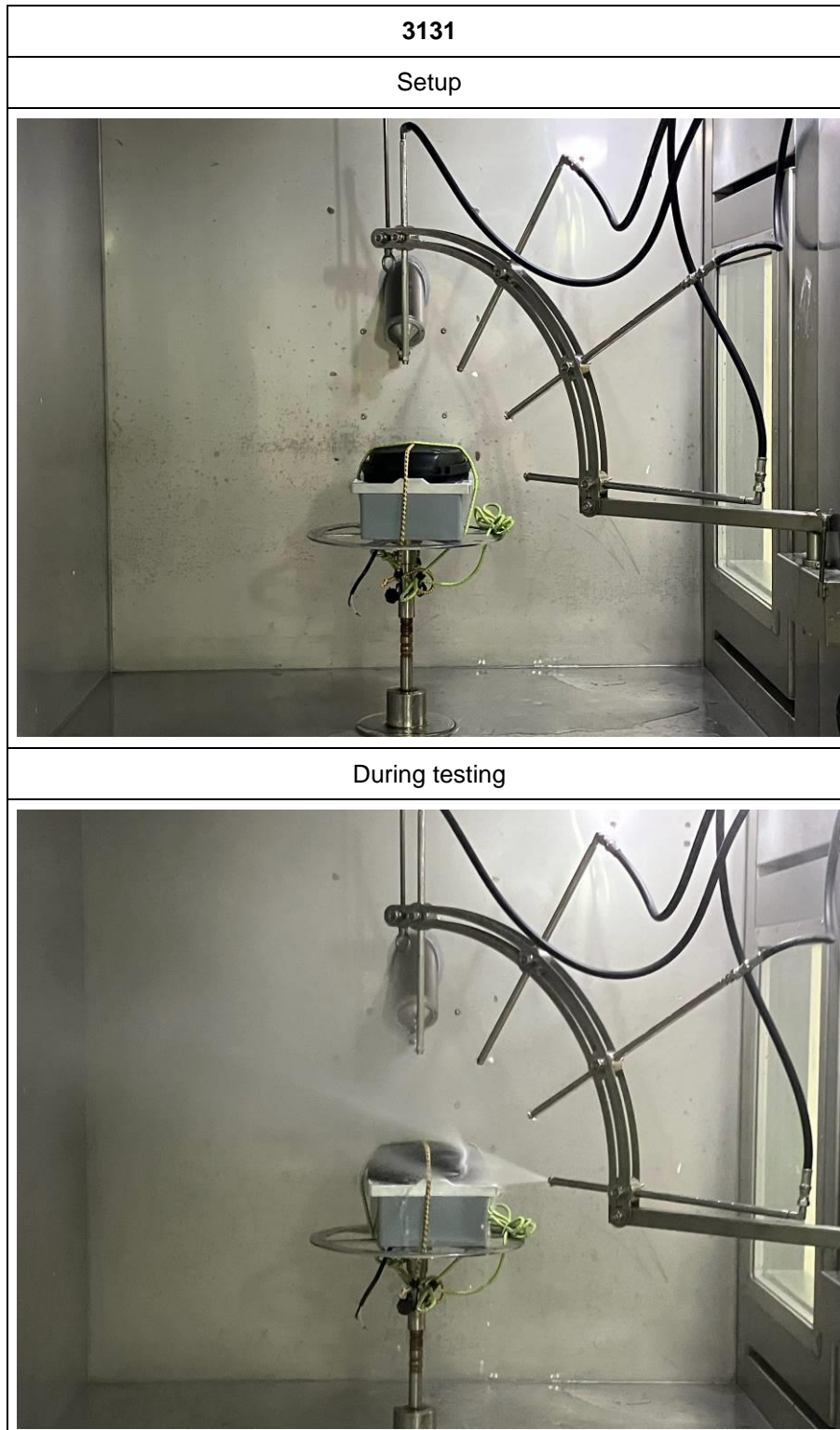
3.5.1 After testing, visual inspection showed that no water permeated into units. (The inner unit was dry)

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



3158

Setup



During testing



After testing

The appearance of unit was normal (No water permeate into inner of the unit)

3131



After testing

The appearance of unit was normal (No water permeate into inner of the unit)

3158



--- 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.