

# TEMPORARY IMMERSION AND DUST TEST REPORT

Company : AAEON Technology Inc.  
 Address : 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist.,  
New Taipei City, 231, Taiwan, R.O.C.  
 Model Name : AIOT-QM SERIES  
 Date Received : SEP 09, 2015  
 Date Tested : SEP 09, 2015 ~ SEP 10, 2015

## TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : 1.72.0031

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-140329

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

## WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Andy Ku	<i>Andy ku</i>	Sep 21, 2015
Manager	Injel Chen	<i>Injel Chen</i>	Sep 21, 2015

## **NOTE :**

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



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## 1. GENERAL INFORMATION

### 1.1 DESCRIPTION OF UNIT

Manufacturer : AAEON Technology Inc.

Model name : AIOT-QM SERIES

Test item and Sample quantity : (Total of 2 units)

Test item	Sample quantity
Temporary immersion test	1 unit
Dust test	1 unit

### 1.2 UNIT OPERATING CONDITION

None

## 2. TEMPORARY IMMERSION TEST

### 2.1 TEST EQUIPMENT

Model	Calibration Date
ETL-L180 Water Leakage Test Chamber	NCR

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 % (RH)

### 2.3 REFERENCE DOCUMENT

This test is based on IEC/EN 60529 IPX7 temporary immersion Test Protected. (2013)

### 2.4 TEST CONDITION

Unit is 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 the unit (the inner unit was dry).

### 3. DUST TEST

#### 3.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
Vötsch VDT 1000A	59566059640010	DEC 13, 2014

#### 3.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 % (RH)

#### 3.3 REFERENCE DOCUMENT

The test is based on IEC/EN 60529 IP6X Dust Test Protected. (2013)

#### 3.4 TEST CONDITION

Unit is non-operating.

Dust material : Talcum powder (100% dry fine)

Particle size	Amount (%)
< 5 µm (Diameter)	42.31%±5
5~10 µm (Diameter)	35.85%±5
10~20 µm (Diameter)	21.15%±5
20~40 µm (Diameter)	0.69%±5
> 40 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

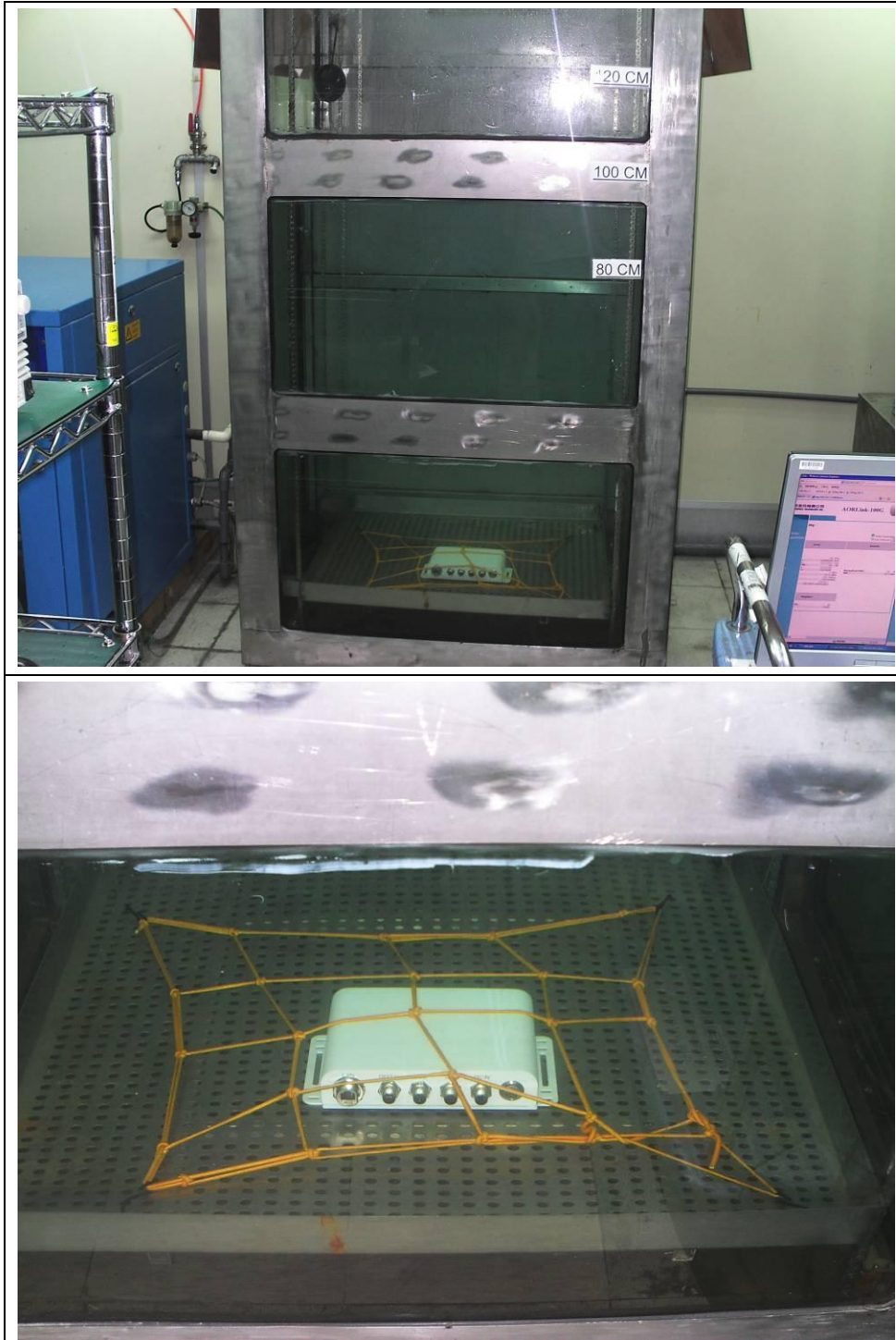
Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 8 hours

#### 3.5 SUMMARY OF TEST

After testing, visual inspection showed no dust particles permeated into the unit.

**Attachment 1 : Photo of temporary immersion test setup**





## Attachment 2 : Photo of dust test setup

Setup



Before testing



After testing



### Attachment 3 : Photo of unit before and after temporary immersion test

**Before testing**

Function was normal



**After testing**

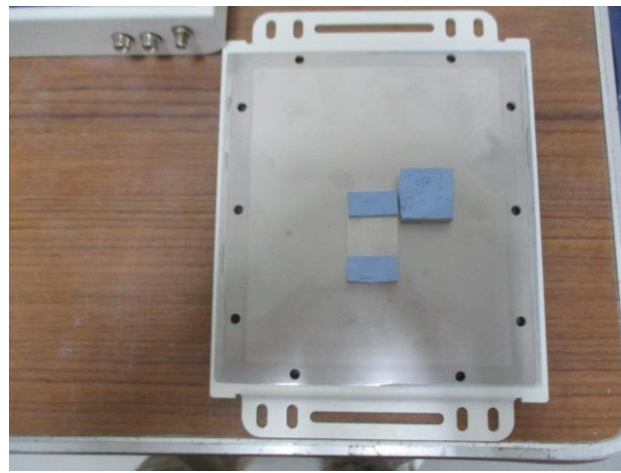
Function was normal





**After testing**

No water permeated into unit



**Attachment 4 : Photo of unit before and after dust test**

**Before testing**

Function was normal



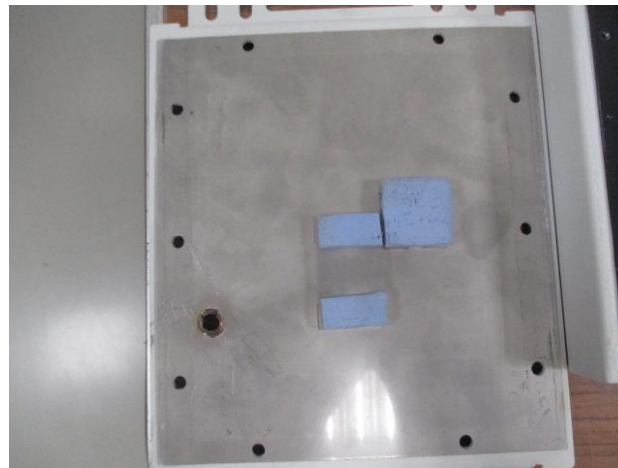
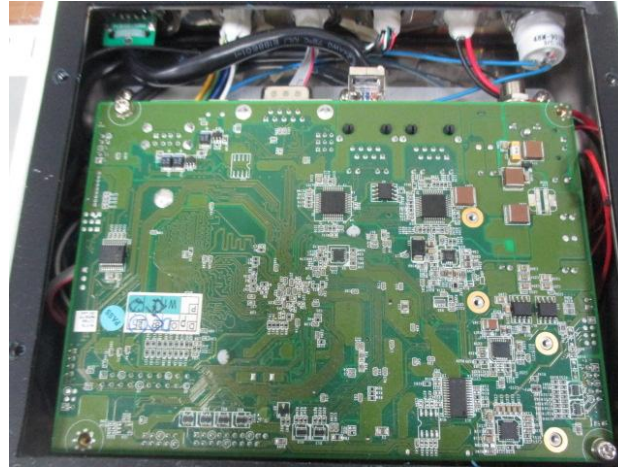
**After testing**

Function was normal



**After testing**

No dust particle permeated into unit



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