



1. Client

- Name: KG AUTO.,Ltd
- Adress: Nae-dong 71-4, Ojeong-gu, Bucheon-si, Gyeonggi-do

2. Manufacturer

- Name: KG AUTO.,Ltd
- Adress: Nae-dong 71-4, Ojeong-gu, Bucheon-si, Gyeonggi-do

3. Sample Description

- Name: Ampere Indicator66
- Model: AI66-VMB
- Rating: AC 110-220 V, 50/60 Hz, DC 12/24 V

4. Date of test: 2018.10.05 - 2018.10.08



5. Test method used: IEC 60529:1989+A1:1999+A2:2013

6. Test results: Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This laboratory is not accredited for the test results makred *.

If you want verify the authenticity of the test report, please contact Standard LaBS.

Affirmation	Tested by Name (Signature): D. H. Ahn 	Tested by Name (Signature): S. J. Lee 
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2018. 10. 10

Standard LaBS Representative (Signature)



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– INDEX –

1. Product	3
1.1 Description of product	3
1.2 Photograph of product	3
2. Test and Results	4
2.1 Dust test	4
2.2 Waterproof test	4
3. Photographs	5 - 8
4. Test Equipment.....	9



1. Product

1.1 Description of product

Items	Specification
Product name	Ampere Indicator66
Basic model	AI66-VMB
Family models	AI66-VMS, AI66-V50B, AI66-V50S, AI66-D10B, AI66-D10S, VI66-VB, VI66-VS, VI66-DB, VI66-DS
Material of enclosure	PC

The family models are the same as the basic model AI66-VMB except for model designation.

1.2 Photograph of product





2. Test and Results

2.1 Dust test

Items	Descriptions	
1 st characteristic numeral	6	
Enclosure category	<input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2	
Test conditions	<ul style="list-style-type: none"> • Square-meshed sieve - Wire diameter: 50 μm, Width of a gap between wires: 75 μm • Amount of talcum powder of the test chamber: 2 kg/m³ 	
Test Method	Category 1 <input type="checkbox"/> If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2h. <input checked="" type="checkbox"/> If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.	
	Category 2 <input type="checkbox"/> The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.	
Acceptance criteria	No ingress of dust	
Results	No dust penetration inside of enclosure	Pass

2.2 Waterproof test

Items	Descriptions	
2 nd characteristic numeral	5	
Test conditions	<ul style="list-style-type: none"> • Internal diameter of the nozzle: 6,3 mm • Delivery rate: 12,5 l/min ± 5 % • minimum test duration: 3 min 	
Test Method	<ul style="list-style-type: none"> • Water pressure: to be adjusted to achieve the specified delivery rate • Distance from nozzle to enclosure surface: between 2,5 m and 3 m 	
Acceptance criteria	Water projected in jets against the enclosure from any direction shall have no harmful effects	
Results	No water penetration inside of enclosure	Pass



3. Photographs



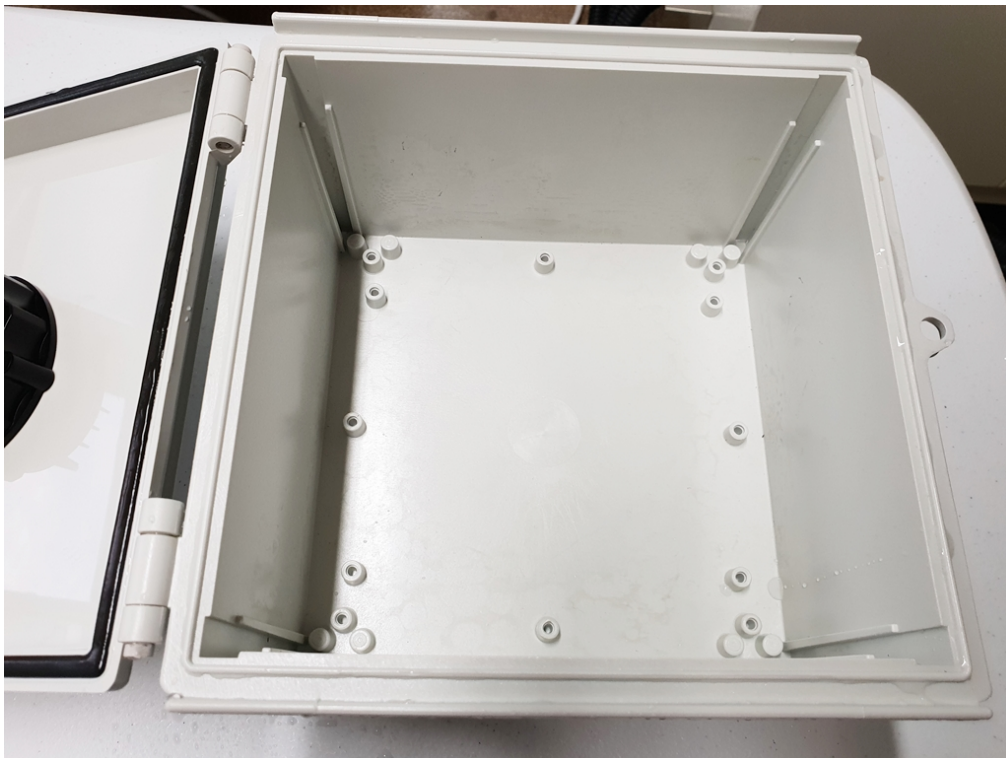
[Photo – dust test]



[Photo – waterproof test]



[Product - after the dust test]



[Product - after the waterproof test]



4. Test equipments

Name of equipment	Model	Manufacturer	Serial No.	Date of calibration
Sand & Dust Test chamber	RH18501C	Rehoboth testing equipment limited	RH0290817	2017-10-18
Tape Measure	5M	KOMERON	1705522	2018-03-13
Water supply system	RH18109B	Rehoboth testing equipment limited	RH0300817	2017-10-23
Water spray test device	RH18104 (6,3 mm)	-	RH5060917	2017-10-09

----- The end of test report -----