

1. Client

oName: KG AUTO CO., LTD

oAdress: 45,Sojeongsandan 4-ro, Sojeong-myeon, Sejong-si, Republic of Korea

2. Manufacturer

oName: KG AUTO CO., LTD

oAdress: 45,Sojeongsandan 4-ro, Sojeong-myeon, Sejong-si, Republic of Korea

3. Sample Description

oName: REMOTE CONTROLLER

oModel: KG - R12MLHAAAT

oRating: IP65

4. Date of test: 2021.06.28 - 2021.06.29



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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2021. 07. 02

Standard LaBS Representative (Signature)

46, LS-ro 91beon-gil, Dongan-gu, Anyang-si, gyeonggi-do Rep. of KOREA

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1. Product

1.1 Description of product

Items	Specification
Product name	REMOTE CONTROLLER
Basic model	KG - R12MLHAAAT
Family models	-

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/m^3 	
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 \pm 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

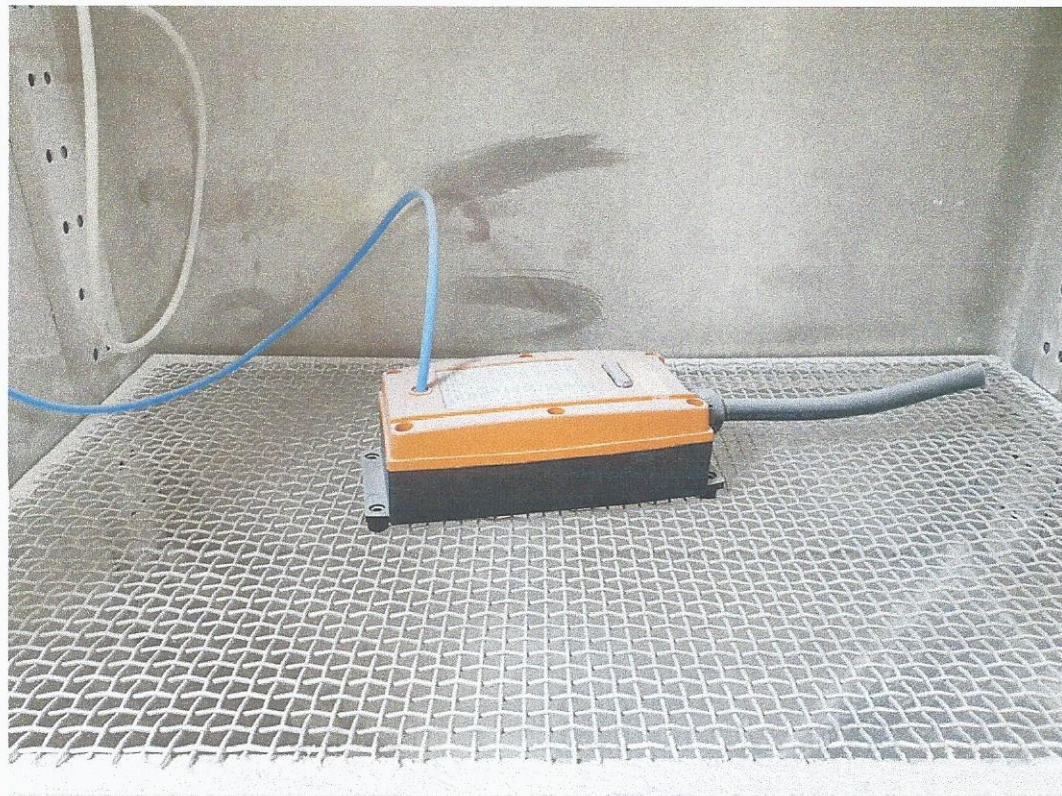


3. Photographs



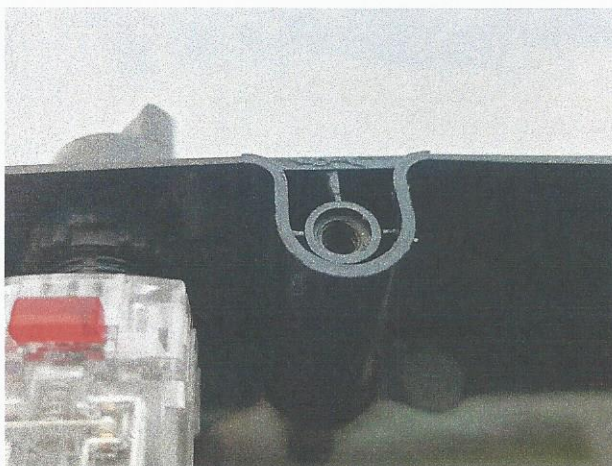
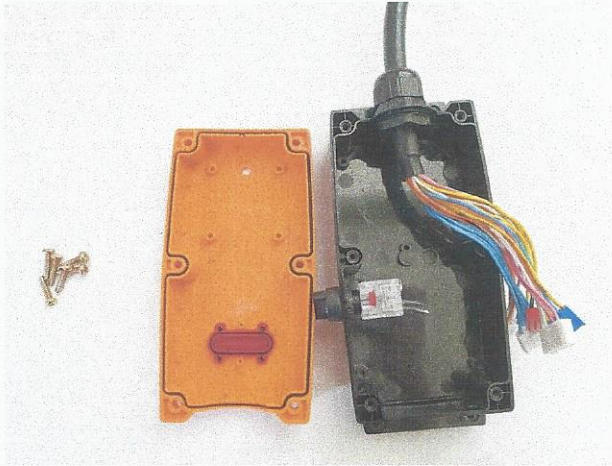
[Photo 1 - before dust test]





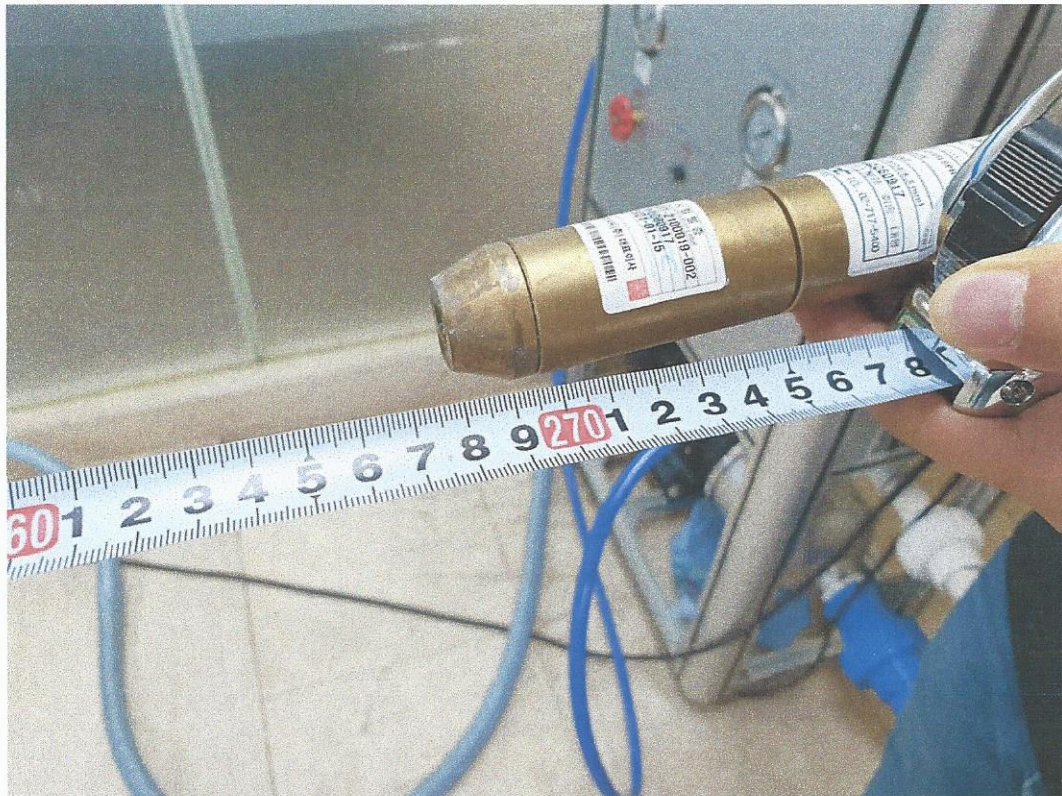
[Photo 2 - after dust test]





[Photo 3 – Product (after the dust test)]





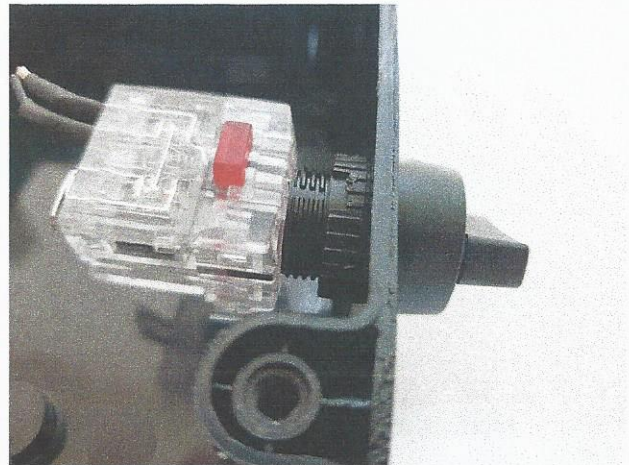
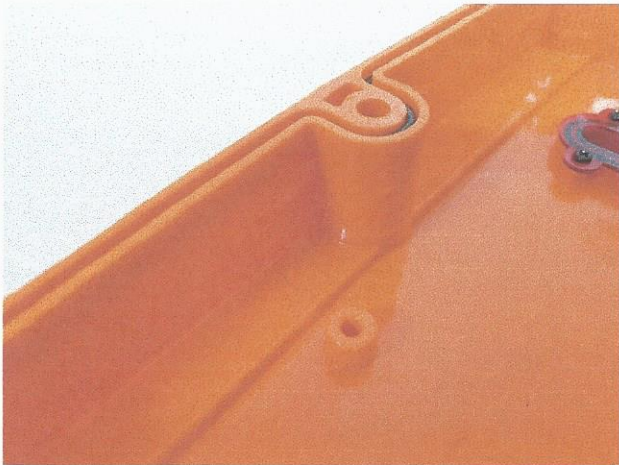
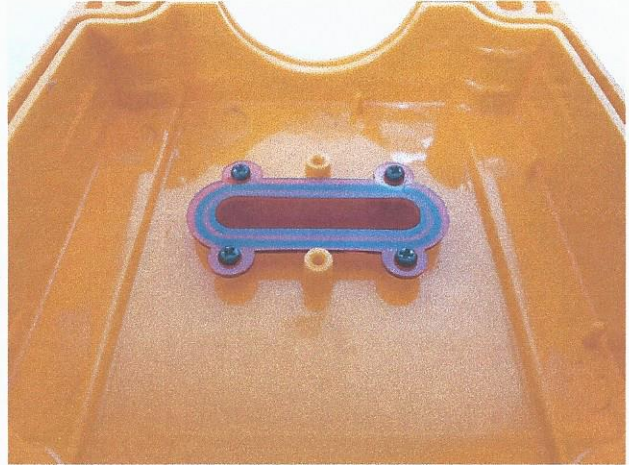
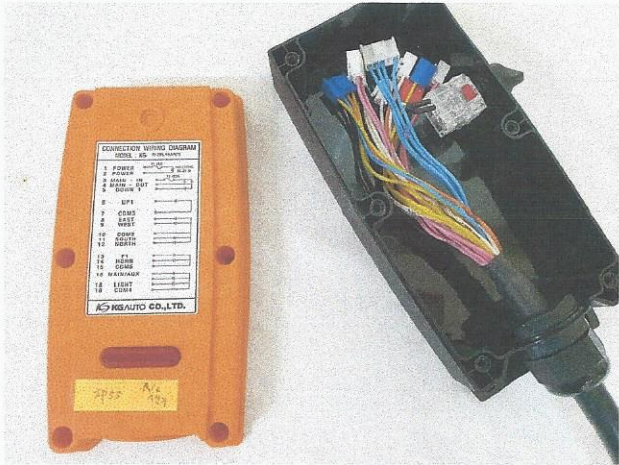
[Photo 4 - waterproof test setting]





[Photo 5 - during the waterproof test]





[Photo 6 - Product (after the waterproof test)]



4. Test equipments

Name of equipment	Model	Manufacturer	Serial No.	Date of calibration
Sand & Dust Test chamber	RH18501C	Guangzhou Sunho Electronic	RH0290817	2022-01-12
Water spray test device	RH18104 (Ø 6.3mm)	-	RH5060917	2022-01-15
Water supply system	RH18109B	Rehoboth testing equipment limited	RH0300817	2022-01-12
Tape Measure	5M	KOMELON	1705522	2022-02-25

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

