



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: IP55

4. Date of test: 2021.06.30 - 2021.07.01



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 
-------------	--	--

2021. 07. 02

Standard LaBS Representative (Signature) 

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

Tel: +82-70-7700-9351 Fax: +82-31-427-9350





– 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 - 10
4. Test Equipment	11

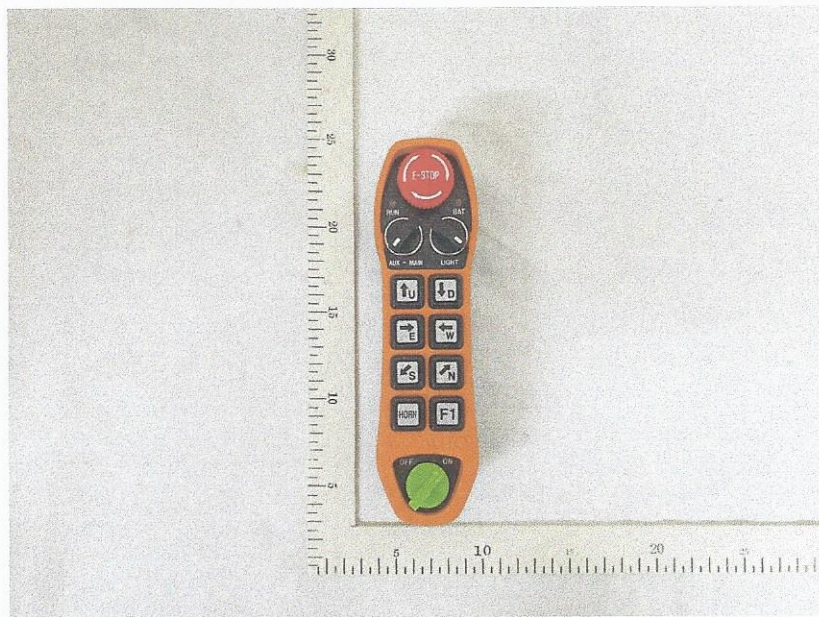


1. Product

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

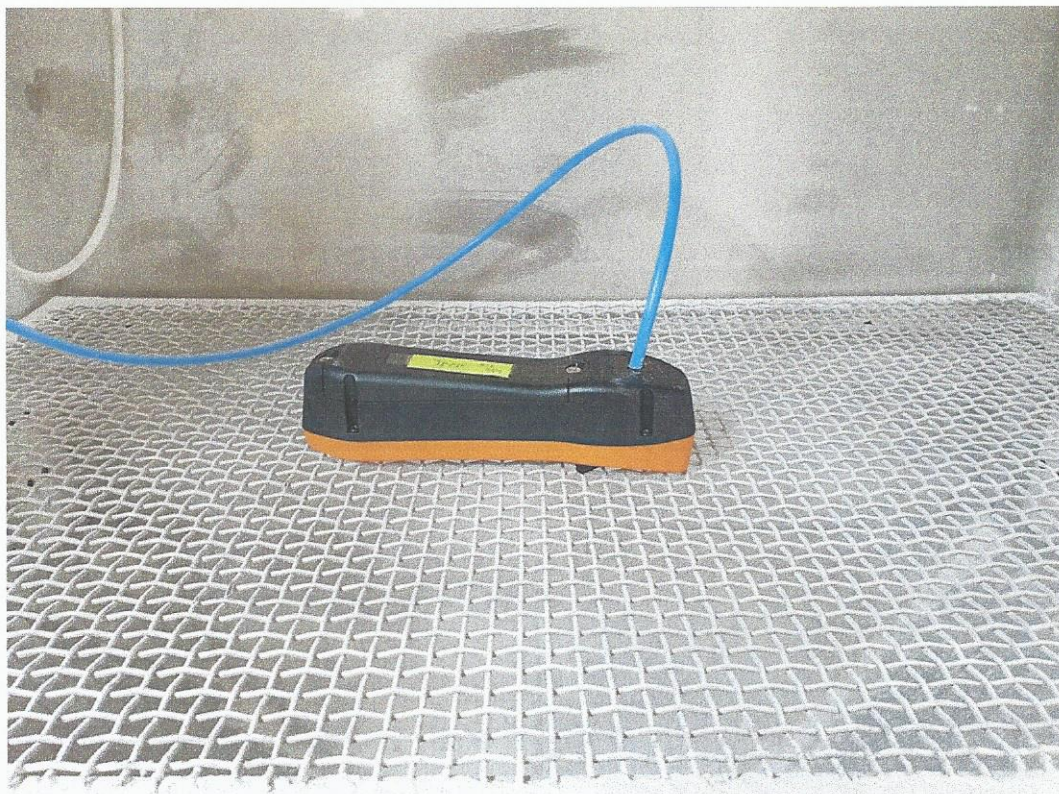
Items	Descriptions
1 st characteristic numeral	5
Enclosure category	<input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2
Test conditions	<ul style="list-style-type: none"> • Square-meshed sieve - Wire diameter: 50 μm, Width 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	Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety
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

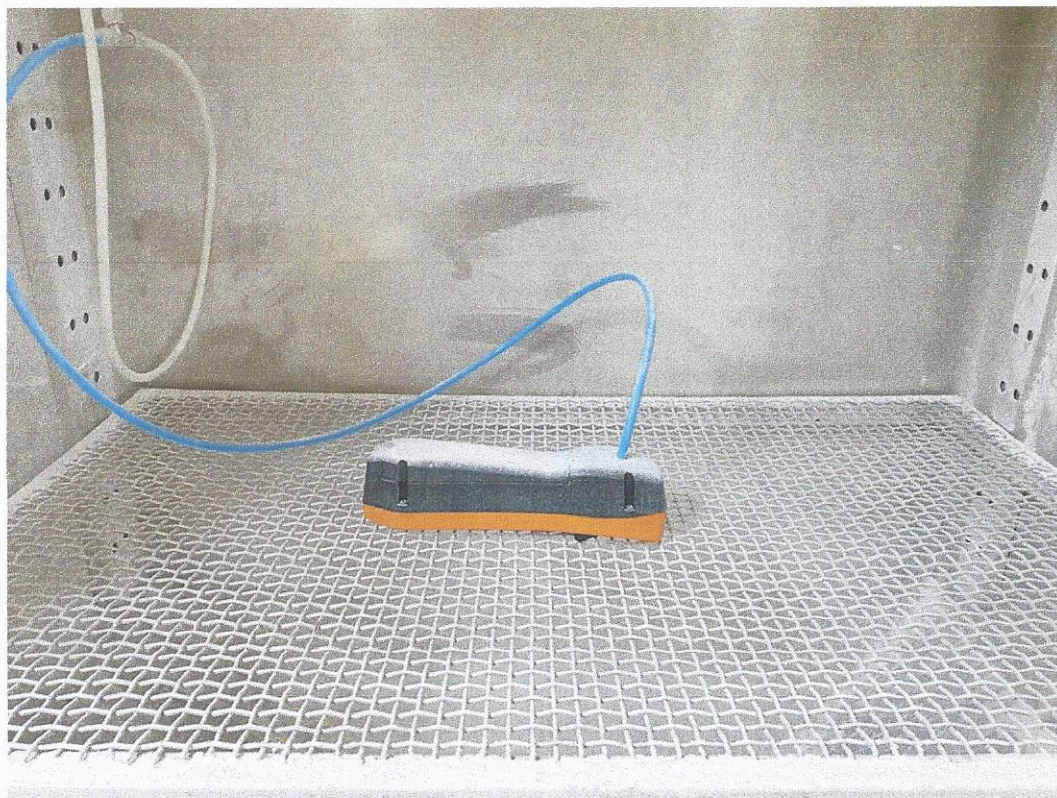


3. Photographs



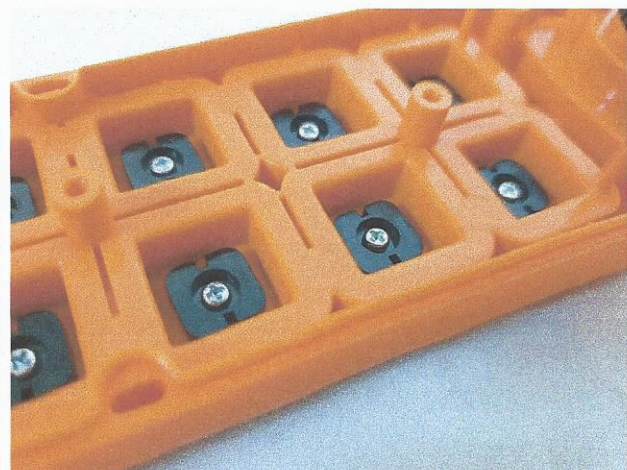
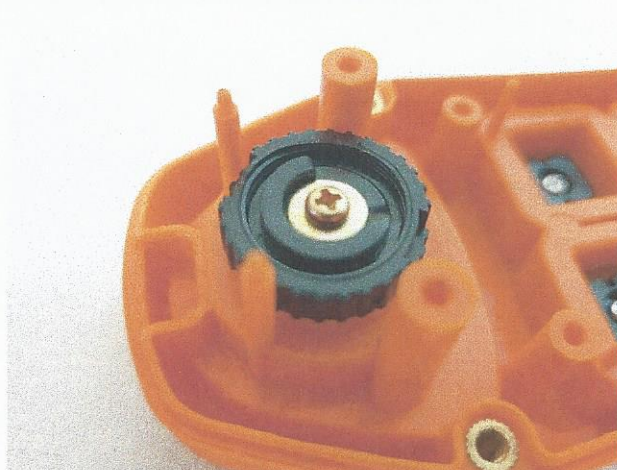
[Photo 1 - before dust test]





[Photo 2 - after dust test]





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



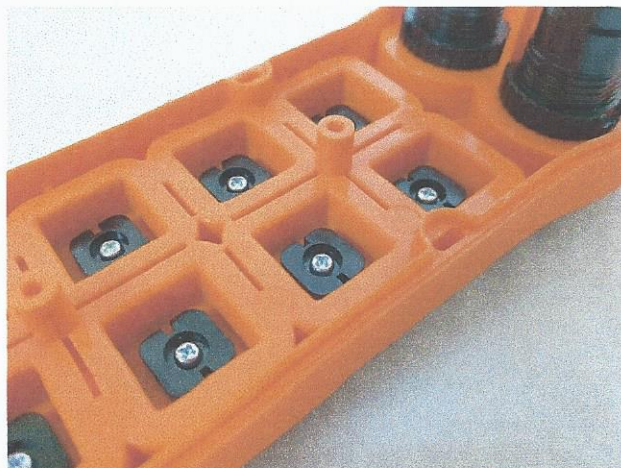
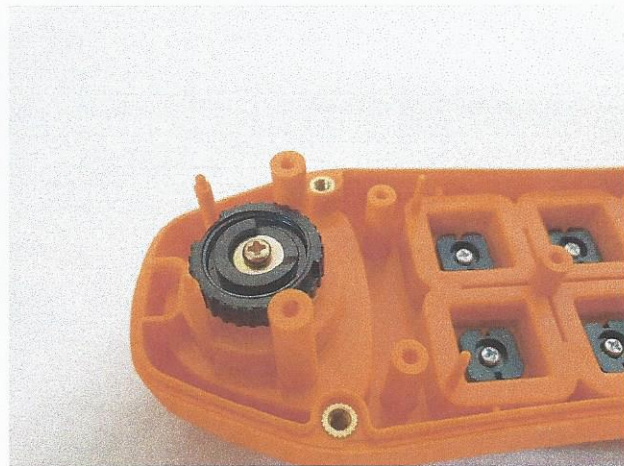
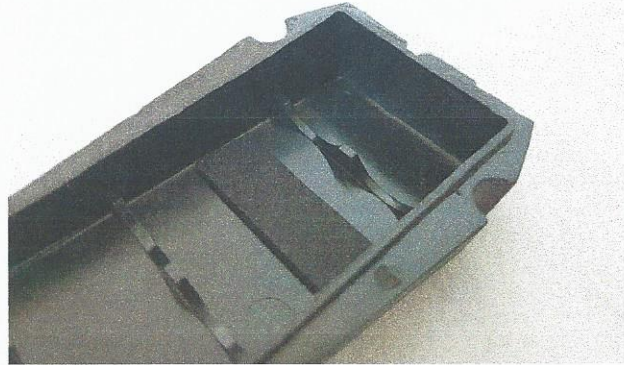
[Photo 4 - waterproof test setting]





[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 -----

