

Test Report



**Korea Marine Equipment
Research Institute**

24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Republic of Korea
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Report No. :

KOMERI-0314-23T3097(E)

<http://www.komeri.re.kr>



1. Applicant

- Company Name : SEGIBIZ CO., LTD
- Address : (46989) 32, Saebyeoksijang-ro, Sasang-Gu Busan, Korea



2. Equipment under Test

- Name of Product : Aluminum Push Button Boxes
- Model : SG-CB-0001
- Serial No. : -

3. Test Standards : KS C IEC 60529:2013 Degrees of protection provided by enclosures (IP CODE)

4. Test Period : 2023. 11. 08 ~ 2023. 11. 09

5. Test Site : Permanent Testing Lab On Site Testing
(Address : 24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Republic of Korea)

6. Test Result : Conformity(IP65)

Note 1. The information of the sample(s) in this test report is provided by the applicant. And you can check website (www.g4bgo.kr) to verify the authenticity of the certificate.

Note 2. The result shown in this test report are only limited in to the samples provided by the applicant and do not guarantee the quality of all products of the applicant.

Note 3. This test report shall be used only within the purpose of its defined use and shall not be used for public relation, advertisement and lawsuit.

Affirmation	Tested by	Technical Manager
	Name : Sang-Jin LEE (이상진)	Name : Myeong-Gwan HAN (한명관) (Signature)

This test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA and related to KS Q ISO/IEC 17025 and KOLAS accreditation.

Date of issue : 2023. 11. 28.

Accredited by KOLAS, Republic of KOREA

The President of Korea Marine Equipment Research Institute (Signature)





■ GENERAL

Test condition	Status	Note
opened without the use of a key or tool	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
be used additional material for degrees of protection	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
not exceeded a rated voltage of 72.5 kV	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
be charged or operated during the test	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

■ SPEICAL NOTE

· None

NOTE 1) The recommended atmospheric conditions during the tests

Temperature : (15 ~ 35) °C, Humidity : (25 ~ 75) % R.H., Atmospheric pressure : (86 ~ 106) kPa

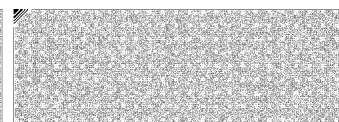
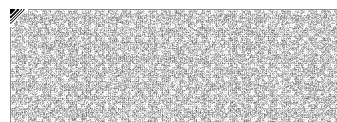
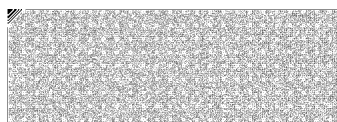
NOTE 2) EUT installation

Unless otherwise specified in a relevant product standard, the test samples for each test shall be a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer.

NOTE 3) Empty enclosures

If the enclosure is tested without equipment inside, detailed requirements shall be indicated by the enclosure manufacturer in his instructions for the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water.

The manufacturer of the final assembly shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of protection of the final product.





1. IP TEST

1.1 TEST STANDARD

- KS C IEC 60529:2013 Degrees of protection provided by enclosures (IP CODE)

1.2 TEST RESULTS (※Refer to ATTACHMENT II for detailed test results)

Table 1-1 Protection of persons against access to hazardous parts

Test item	Criterion	Result
IP6X	<ul style="list-style-type: none"> · Test wire shall not fully penetrate and adequate clearance shall be kept. · A diameter of the test wire : ϕ 1.0 mm · Test force : (1 ± 0.1) N 	Test wire did not fully penetrate and adequate clearance was kept.

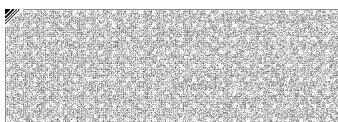
Table 1-2 Protection against solid foreign objects

Test item	Criterion	Result
IP6X	<ul style="list-style-type: none"> · Ingress of dust is totally prevented. · Test depression : -2 kPa(20 mbar) · Test duration : 8 hours 	Ingress of dust was totally prevented.

Table 1-3 Protection against water

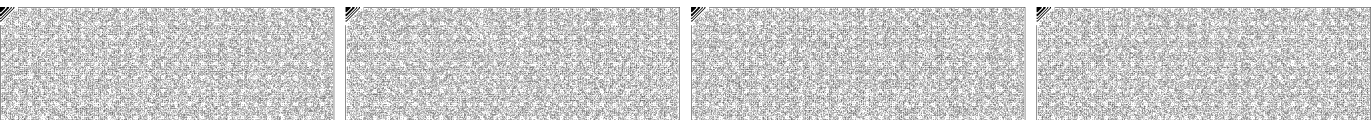
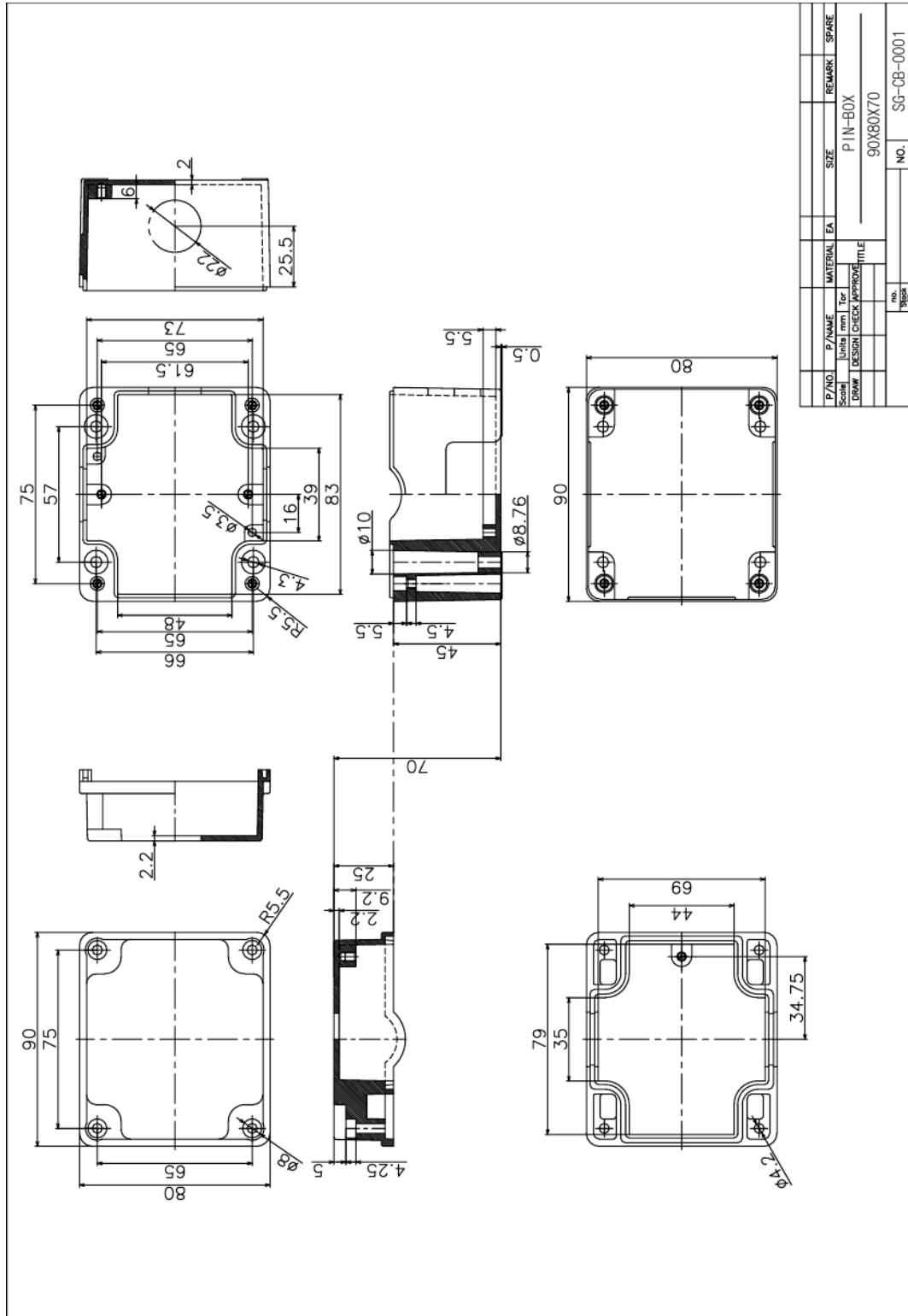
Test item	Criterion	Result
IPX5	<ul style="list-style-type: none"> · Flow rate : (12.5 ± 0.625) L/min · Distance from nozzle to enclosure surface : 2.5 m ~ 3.0 m · Test direction : all practicable directions · Test duration : 3 min. · After test, the enclosure shall be inspected for ingress of water. ※ In general, if any water has entered, it shall not <ul style="list-style-type: none"> · be sufficient to interfere with the correct operation of the equipment or impair safety · deposit on insulation parts where it could lead to tracking along the creepage distances · accumulate near the cable end or enter the cable if any · If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment. · For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts. 	Water did not penetrate into the enclosure.

※ the water temperature should not differ by more than 5 K from the temperature of the EUT



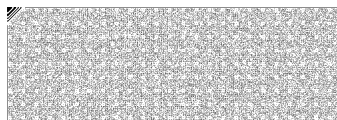
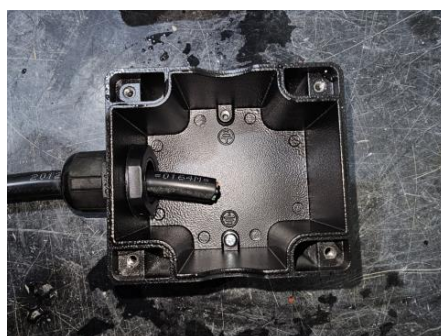
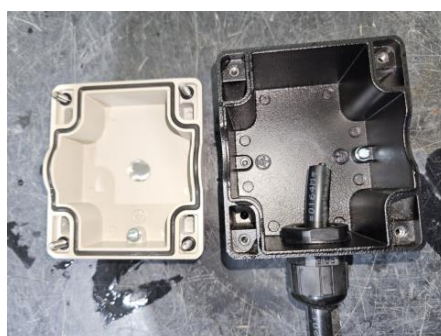
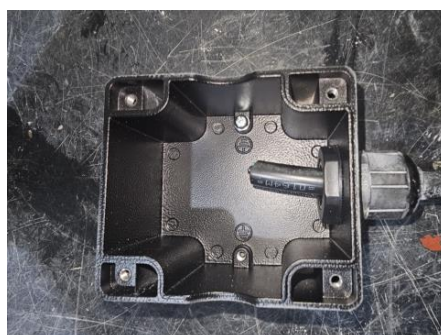
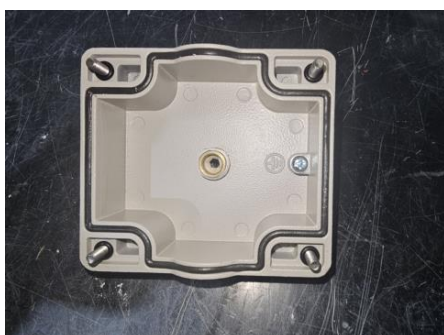


■ ATTACHMENT I. DRAWING





■ ATTACHMENT II, TEST RESULT





■ ATTACHMENT III. EQUIPMENT UNDER TEST



-The end-

