

TEST REPORT



Report No. : 20-054606-03-2

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1. Client

Name : Seojin Instech Co., Ltd.

Address : 12, Sagimakgol-ro, 148beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

Date of Receipt : 2020. 08. 26

2. Use of Report : To verify IP grade to IEC 60529

3. Test Sample

Description : QUICK FLOAT HOLDER TYPE LEVEL SWITCH

Manufacturer : Seojin Instech Co., Ltd.

Model Name : SQ-E-4-C-1-OP-2-C-6

Serial Number : -

Remark : Please refer to the clause 1.4 regarding the test sample and results.

4. Date of Test : 2020. 08. 31. ~ 2020. 08. 31.

5. Location of Test :

■ KTL Permanent Test Lab (Address : 87, Digital-ro 26-gil, Guro-gu, Seoul, KOREA)

□ On Site Testing

6. Test Standard/Method : IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015

7. Test Results : Pass (IP66)

Note :

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4. The results marked as ' ※ ' are out of KOLAS accreditation scope.

Affirmation	Tested by	Technical Manager
	Name : Chae Hui-dong (Signature)	Name : Min Yeong-seung (Signature)

The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2020. 09. 07

Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



87, Digital-ro 26-gil, Guro-gu, Seoul, KOREA Tel.+82-2-860-1537 Fax. +82-2-860-1549

FP104-03-00



※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

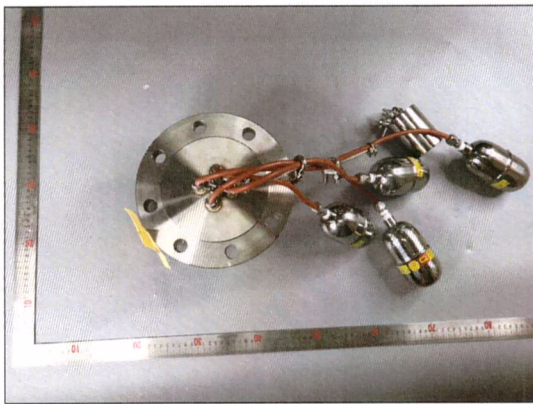
1. Summary of Test

1.1 Test Standard

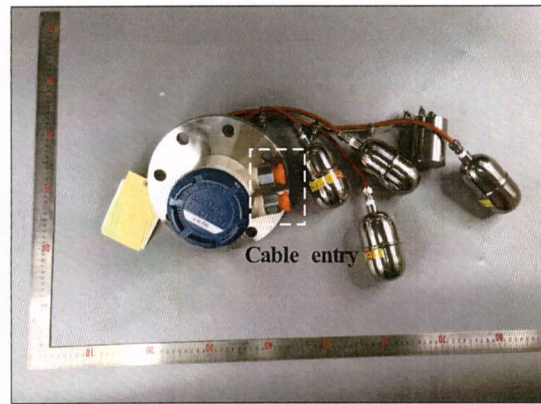
This test was conducted in accordance with "IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015".

1.2 Test Sample

- Description : QUICK FLOAT HOLDER TYPE LEVEL SWITCH
- Model Name : SQ-E-4-C-1-OP-2-C-6
- Dimensions : Diameter 121.0 mm × 105.5 mm



[Fig. 1: Sample]



[Fig. 2: Sample]

1.3 Test Environment

- Temperature : (23.0 ± 2.0) °C
- Humidity : (50 ± 2) % R.H.
- Atmospheric Pressure : (100.1 ± 2.0) kPa

1.4 Remark

The cable entry was assembled with the stop plug(Refer to Fig. 2)



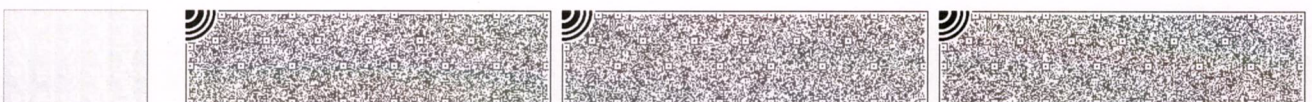
2. Results

Code Letters	IP	Conditions	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	2.1 Dust Test Conditions <ul style="list-style-type: none"> Talcum powder(mesh) wire diameter: 50 μm Talcum powder(mesh) wire width: 75 μm Amount of talcum powder of the test chamber: 2 kg/m³ 2.2 Dust Test Contents <ul style="list-style-type: none"> Volume of the enclosures: About 890.3 cm³ Reduction air pressure: -2.00 kPa (-200 mmH₂O) Flow rate: About 0.8 L/min Extraction rate per hour: About 53.91 volumes/h Test duration: 2 h 	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	6	2.3 Water Test Conditions <ul style="list-style-type: none"> Internal diameter of the nozzle: 12.5 mm Delivery rate: (100 \pm 5) L/min Core of the substantial stream: Circle of 120 mm diameter at 2.5 m distance from the nozzle Distance from nozzle to enclosure surface: 2.8 m 2.4 Water Test Contents <ul style="list-style-type: none"> Test duration: 3 min 	Pass

3. List of Testing Equipments

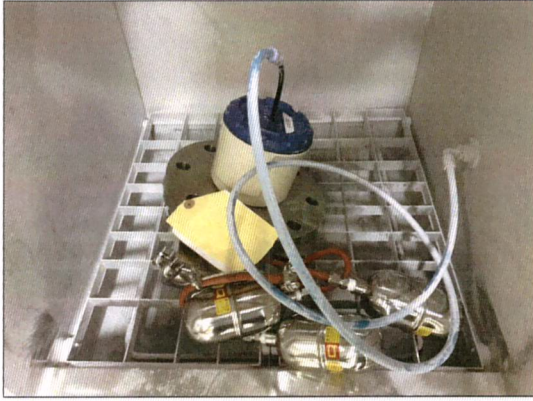
Equipment	Manufacture	Model	ICP No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Testo 622	ICP20140892	2020. 04. 09	KTL
Vernia Caliper	MITUTOYO	CD-20APX	ICP20160207	2020. 05. 14	KTL
Flow Meter (Compact)	DWYER	RMA-13-SSV	ICP20150336	2020. 05. 11	KTL
Flow Meter (Nozzle)	KOMETER	GA-101	ICP20150325	2020. 04. 13	KOMETER
Nozzle	SCM	NONE	ICP20190032	2020. 01. 10	KTL

FP104-04-00



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4. Test Figures



[Fig. 3: IP6X]



[Fig. 4: IPX6]

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