

# TEST REPORT



한국산업기술시험원  
Korea Testing Laboratory

Report No. : 16-041849-01

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## 1. Client

Name : SeoJin Instech Co., Ltd

Address : 12, Sagimakgol-ro 148beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, 462-807, Korea

Date of Receipt : 2016. 07. 15

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

## 3. Test Sample

Description : Remote Drum Level Switch

Manufacturer : SeoJin Instech Co., Ltd

Model Name : SDS-3000

Serial Number : -

Remark : -


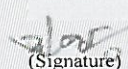
4. Date of Test : 2016. 08. 03. ~ 2016. 08. 04.

5. Test Standard/Method : IEC 60529: 2001

6. Testing Environment : Temperature : ( 24.3 ± 2.0 ) °C , Humidity : ( 49 ± 2 ) % R.H.

7. Test Results : Pass (IP65)

Note : 1. The test results contained apply only to the test sample(s) supplied by the client  
2. This test report shall not be reproduced in full or in part without approval of the KTL in advance.

Affirmation	Tested by Name : Chae Hui dong  (Signature)	Technical Manager Name : Min Yeong-seung  (Signature)
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The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2016. 08. 08

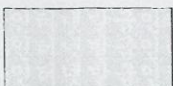
## Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



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FP202-03-03



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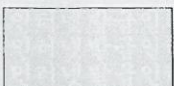
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## 1. Summary of Test

### 1.1 Test Standard

This test was conducted in accordance with "IEC 60529: 2001".

### 1.2 Test Sample

- Description : Remote Drum Level Switch
- Model Name : SDS-3000
- Dimensions : 385 mm × 260 mm × 100 mm
- Rating : 250 Vac, 24 Vdc, 5A



[Fig. 1: Front]



[Fig. 2: Side]

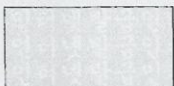
### 1.3 Test Environment

- Temperature : (24.3 ± 2.0) °C
- Humidity : (49 ± 2) % R.H.
- Atmospheric Pressure : (100.6 ± 2.0) kPa

### 1.4 Remark

N/A

FP202-02-02



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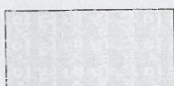
**2. Results**

Code Letters	IP	Conditions	Results
<b>1st Characteristic numerals</b> Against ingress of solid foreign objects	6	<b>2.1 Dust Test Conditions</b> <ul style="list-style-type: none"> <li>Talcum powder(mesh) wire diameter: 50 μm</li> <li>Talcum powder(mesh) wire width: 75 μm</li> <li>Amount of talcum powder of the test chamber: 2 kg/m<sup>3</sup></li> </ul> <b>2.2 Dust Test Contents</b> <ul style="list-style-type: none"> <li>Volume of the enclosures: About 8 000 cm<sup>3</sup></li> <li>Reduction air pressure: -2.00 kPa (-200 mmH<sub>2</sub>O)</li> <li>Flow rate: 0.40 LPM</li> <li>Extraction rate per hour: 3.00 volumes/h</li> <li>Test duration: 8 h</li> </ul>	Pass
<b>2nd Characteristic numerals</b> Against ingress of water with harmful effects	5	<b>2.3 Water Test Conditions</b> <ul style="list-style-type: none"> <li>Internal diameter of the nozzle: 6.3 mm</li> <li>Delivery rate: 12.5 l/min ± 5 %</li> <li>Core of the substantial stream: Circle of 40 mm diameter at 2.5 m distance from the nozzle</li> <li>Distance from nozzle to enclosure surface: 2.8 m</li> </ul> <b>2.4 Water Test Contents</b> <ul style="list-style-type: none"> <li>Test duration: 3 min</li> </ul>	Pass

**3. List of Testing Equipments**

Equipment	Manufacture	Model	ICP No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Testo 622	ICP20140892	2016. 05. 10	KTL
Vernia Caliper	MITUTOYO	CD-20APX	ICP20160207	2016. 05. 19	KTL
Flow Meter (Nozzle)	KOMETER	GA-101	ICP20150325	2016. 05. 13	DDHT
Flow Meter (Dust Chamber)	DWYER	RMA-13-SSV	ICP20150476	2016. 05. 11	KTL

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#### 4. Test Figures



[Fig. 3: IP 6X]

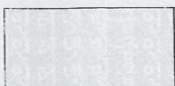


[Fig. 4: IP X5]

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