

## TEST REPORT

### 1. Applicant

Name : SEOJIN INSTECH CO., LTD.  
Address : #91-18. Gunja-dong, Gwangjin-gu, Seoul,  
Korea

### 2. Products

Name : FLOW SWITCH  
Model/Type : SF-5  
Manufacturer : SEOJIN INSTECH CO., LTD.  
Remark : -

3. Test Standard/Method : IEC 60529:2001, KS C IEC 60529:2002

4. Test Results : IP65 (Refer to document)

5. Use of Report : For Quality Control & HHI

6. Date of Application : 2010. 10. 20

7. Date of Issue : 2010. 10. 26

Tested by



Machinery Convergence Technology Center  
Chang-ho Kim

Approved by



Machinery Convergence Technology Center  
Leader Jun-gu Kang

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

# Korea Testing Laboratory

222-13, Guro3-Dong Guro-Gu Seoul, 152-718, Korea.  
<http://www.ktl.re.kr>

Tel. : +82-2-860-1531  
Fax. : +82-2-860-1549

# TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

## 1. Test Results

Code letters	IP	Test method and Record	Results
<p><b>1st</b> Characteristic numerals</p> <p>Against ingress of solid foreign objects</p>	<b>6</b>	<p>1. CONDITIONS</p> <p>1.1 Talcum powder(mesh) : <b>Wire diameter=50 <math>\mu</math>m, width between wires=75 <math>\mu</math>m</b></p> <p>1.2 Amount of talcum powder of the test chamber : <b>2kg/m<sup>3</sup></b></p> <p>2. TEST</p> <p>2.1 Volume of the enclosures: <b>about 2,400 cm<sup>3</sup></b></p> <p>2.2 Reduction air pressure : <b>-2.0 kPa (-200 mmH<sub>2</sub>O)</b></p> <p>2.3 Flow rate : <b>0.0 LPM</b></p> <p>2.4 Extraction rate per hour : <b>0 volumes/h</b></p> <p>2.5 Test duration : <b>8 hours</b></p>	<b>Pass</b>
<p><b>2nd</b> Characteristic numerals</p> <p>Against ingress of water with harmful effects</p>	<b>5</b>	<p>1. CONDITIONS</p> <p>1.1 Internal diameter of the nozzle : <b>6.3 mm</b></p> <p>1.2 Delivery rate : <b>12.5 LPM<math>\pm</math>5%</b></p> <p>1.3 Core of the substantial stream : <b>Circle of 40 mm diameter at 2.5 m distance from the nozzle</b></p> <p>1.4 Distance from nozzle to enclosure surface : <b>Between 2.8 m</b></p> <p>2. TEST</p> <p>2.1 The duration of the test is : <b>3 min</b></p>	<b>Pass</b>

## 2. Reference Data

- (1) Test conditions : 20.3  $^{\circ}$ C, 67 %RH, 86~106 kPa  
 (2) Size :  $\varnothing$ 150 mm $\times$ H233 mm