



# TEST REPORT



Report No. : 16-016572-01

Page of Pages : ( 1 ) / ( 6 )



## 1. Client

Name : YOUNG TECH Co., Ltd.

Address : 81, Hwanggeum-ro, 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

Date of Receipt : 2016. 03. 24

## 2. Use of Report : For Quality Control

## 3. Test Sample

Description : TOP MOUNTED POSITIONER

Manufacturer : YOUNG TECH Co., Ltd.

Model Name : TMP-3000

Serial Number : -

Remark : -



## 4. Date of Test : 2016. 04. 08. ~ 2016. 04. 11.

## 5. Test Standard/Method : IEC 60529: 2001

## 6. Testing Environment : Temperature : ( 21.7 ± 2.0 ) °C , Humidity : ( 45 ± 2 ) % R.H.

## 7. Test Results : Pass (IP67)

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	Technical Manager
	Name : Chae-Hui-dong  (Signature)	Name : Kim Ji-hoon  (Signature)

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

2016. 04. 12

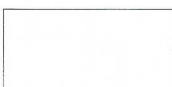
# Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



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FP202-03-03



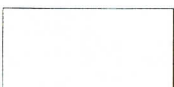
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<Contents>

<b>1. Summary of Test</b> .....	<b>3</b>
1.1 Test Standard .....	3
1.2 Test Sample .....	3
1.3 Remark .....	3
<b>2. Results</b> .....	<b>4</b>
2.1 Dust Test Conditions .....	4
2.2 Dust Test Contents .....	4
2.3 Water Test Conditions .....	4
2.4 Water Test Contents .....	4
<b>3. Test Figures</b> .....	<b>5</b>
<b>4. List of Testing Equipments</b> .....	<b>6</b>

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FP202-02-02



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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 : TOP MOUNTED POSITIONER
- Model Name : TMP-3000
- Dimensions : 108.5 mm × 101 mm × 138 mm
- Rating : 24 Vdc



Top

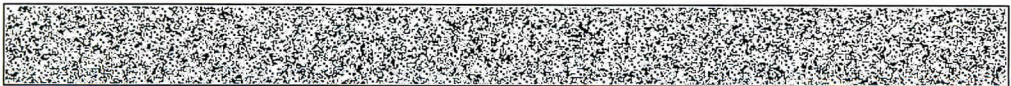


Side

<Fig. 1> Test Sample

1.3 Remark

N/A



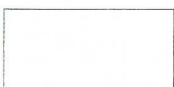
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**2. Results**

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 600 cm<sup>3</sup></li> <li>Reduction air pressure : -2.00 kPa (-200 mmH<sub>2</sub>O)</li> <li>Flow rate : 0.0 LPM</li> <li>Extraction rate per hour : 0 volumes/h</li> <li>Test duration : 8 h</li> </ul>	Pass
<b>2nd Characteristic numerals</b>  Against ingress of water with harmful effects	7	<b>2.3 Water Test Conditions</b> <ul style="list-style-type: none"> <li>The lowest point of enclosure : 1000 mm</li> <li>The highest point of enclosure : 860 mm</li> <li>Differential temperature of water and enclosure (less than 5K) : About 2.0 K</li> </ul> <b>2.4 Water Test Contents</b> <ul style="list-style-type: none"> <li>The duration of the test is : 30 min</li> </ul>	Pass

※ Test Environment

- Temperature : (21.7 ± 2.0) °C
- Humidity : (45 ± 2) % R.H.
- Atmospheric Pressure : (101.5 ± 2.0) kPa



3. Test Figures



IP 6X (Dust)



IP X7 (Water)

<Fig. 2> Test Setup

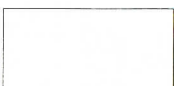


4. List of Testing Equipments

Apparatus	Manufacture	Model	Serial No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Hygrometer Testo 608-H1	-	2015. 05. 26	KTL
Vernia Caliper	MITUTOYO	Vernia Caliper	7003344	2015. 09. 15	KTL
Dust Chamber	DAEKYUNG ENGINEERING	IEC 60529	-	2015. 05. 27	KTL

- End -

FP202-02-02



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