TEST REPORT

ktl 한국산업기술시험원 Korea Testing Laboratory

Report No. : 17-073354-02-2

ilac-MRA KOREA LABORATORY ACCREDITATION SCHEME KOLAS TESTING NO. KT009

1. Client

Name : YOUNG TECH Co., LTD.

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

Date of Receipt : 2017. 11. 24

2. Use of Report : For Quality Control

3. Test Sample

Description : SMART POSITIONER

Manufacturer : YOUNG TECH Co., LTD.

Model Name : YT-2700

Serial Number : -

Remark : -

4. Date of Test : 2017. 12. 13. ~ 2017. 12. 14.

5. Test Standard/Method : IEC 60529: 2001

6. Testing Environment : Temperature : (21.0 ± 2.0) ℃, Humidity : (34 ± 2) % R.H.

7. Test Results : Pass (IP66)

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)

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

2017. 12. 22

Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA

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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 : SMART POSITIONER
- Model Name : YT-2700
- Dimensions : 147.3 mm × 101.6 mm × 63.6 mm

[Fig. 1: Front]

[Fig. 2: Back]

1.3 Test Environment

- Temperature : (21.0 ± 2.0) ℃
- Humidity : (34 ± 2) % R.H.
- Atmospheric Pressure : (102.9 ± 2.0) kPa

1.4 Remark

N/A

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2. Results

Code Letters	IP	Conditions	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	**2.1 Dust Test Conditions** • Talcum powder(mesh) wire diameter: 50 μm • Talcum powder(mesh) wire width: 75 μm • Amount of talcum powder of the test chamber: 2 kg/m^3 **2.2 Dust Test Contents** • Volume of the enclosures: About 348 cm^3 • Reduction air pressure: -2.00 kPa (-200 mmH_2O) • Flow rate: 0.01 L/min • Extraction rate per hour: 1.72 volumes/h • Test duration: 8 h	**Pass**
2nd Characteristic numerals Against ingress of water with harmful effects	6	**2.3 Water Test Conditions** • Internal diameter of the nozzle: 12.5 mm • Delivery rate: (100 ± 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** • 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	2017. 05. 23	KTL
Vernia Caliper	MITUTOYO	CD-20APX	ICP20160207	2017. 05. 18	KTL
Stopwatch	CASIO	HS-30W	ICP20142326	2017. 09. 27	KTL
Flow Meter (Nozzle)	KOMETER	GA-101	ICP20150325	2017. 05. 31	DDHT
Flow Meter (Compact Chamber)	DWYER	RMA-13-SSV	ICP20150336	2017. 05. 25	KTL

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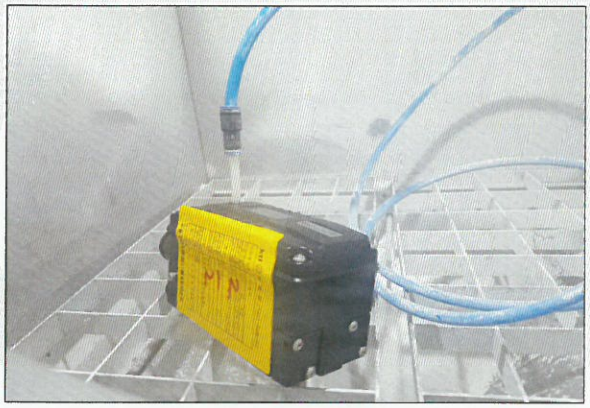
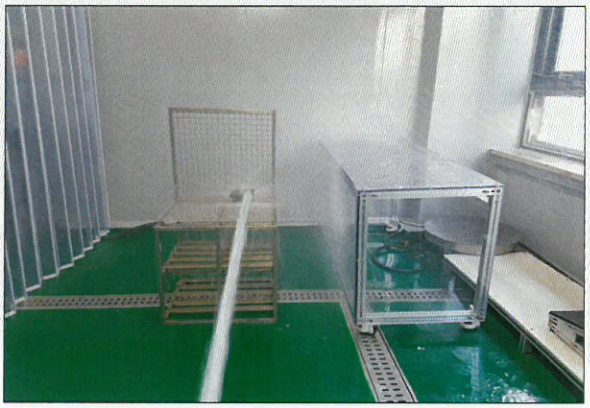
4. Test Figures



[Fig. 3: IP 6X]



[Fig. 4: IP X6]

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