



TEST REPORT

Report No. : SGS-R18-0006-EN00
Order No. : TON-R17-3328
Applicant : WISE Control Inc.
Address : 2022 Deogyong-dearo, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
(17097)
Product : Extension lead wire Thermocouple and RTD
Model No. : R300 Series(General Head Type)
Date of Test : December 21, 2017 ~ December 27, 2017
Standard : IEC 60529: 2013
Degrees of protection provided by enclosures (IP65)
Test Result : Refer to page 9
Use of Report : For Quality Control

This is certified that the above mentioned products have been tested for the sample provided by client.

Affirmation	Tested by Name : Lee, Hyun-woo 	Technical Manager Name : Jun, Ki-hwan 
--------------------	--	---

※ No part of this document may be duplicated or reproduced by any means without the express written permission.

January 02, 2018

SGS Korea Co., Ltd. Dongtan Laboratory



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

TQF-510-001_ver6



SGS Korea Co., Ltd. | 20, Dongtansandan10-gil, Dongtan-myeon, Hwaseong-si, Gyeonggi-do, Korea t +82 (0)31 240 6671 f +82 (0)31 240 6629 www.sgsgroup.kr

Member of SGS Group (Société Générale de Surveillance)



Contents

1. Overview	3
2. Product	3
2.1 Description	3
2.2 Photograph	3
3. Test process	4
3.1 Operating Test	4
3.2 Non-operating Test	4
4. Test condition & Test result	4
4.1 IP6X	5
4.2 IPX5	7
※ Annex 1. Test result photograph	9



1. Overview

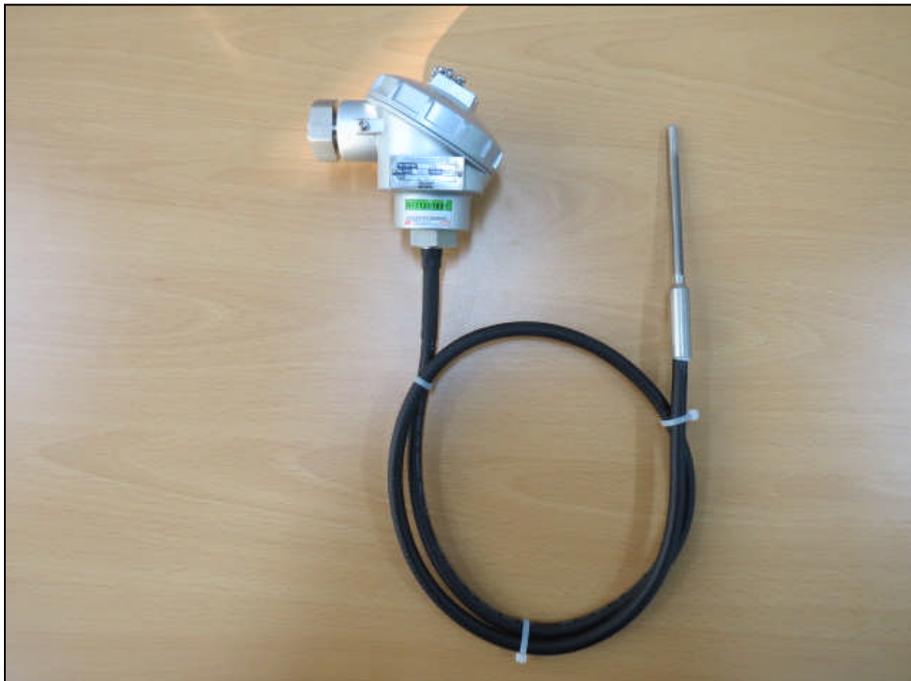
As requested by the client, this test was conducted on test sample according to the test specification presented by the client.

2. Product

2.1 Description

- | | |
|------------------|--|
| 1) Applicant | : WISE Control Inc. |
| 2) Manufacturer | : WISE Control Inc. |
| 3) Product | : Extension lead wire Thermocouple and RTD |
| 4) Model | : R300 Series(General Head Type) |
| 5) S.N | : #1, #2 |
| 6) No. of sample | : 2 EA |

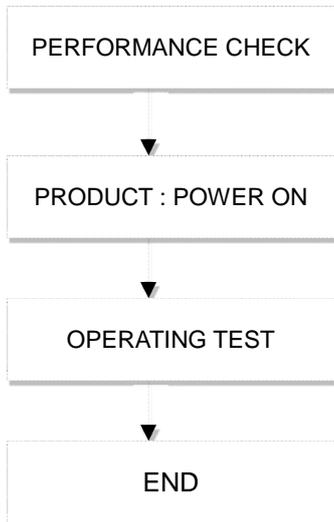
2.2 Photograph



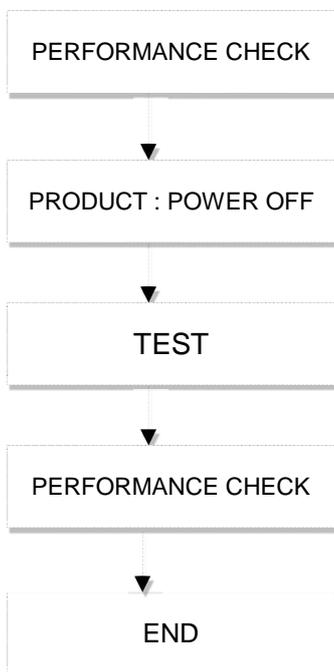


3. Test process

3.1 Operating Test



3.2 Non-operating Test



4. Test condition & Test result



4.1 IP6X

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Extension lead wire Thermocouple and RTD	Tester	Lee, Hyun-woo (+82-31-240-6614)
Model	R300 Series(General Head Type)	Date	December 21, 2017
Serial No.	#1		
Standard	IEC 60529 : 2013 Degrees of protection provided by enclosures	Page	2

(1) Test condition

- 1) IP code : IP6X
- 2) Test time : 8 h
- 3) Decompression : Maximum depression of 2 kPa (20 mbar)
- 4) Status of product : ① Unpacked product ② Non-operation
- 5) Check point : After the test
- 6) Sample quantity : 1 EA

(2) List of used equipment

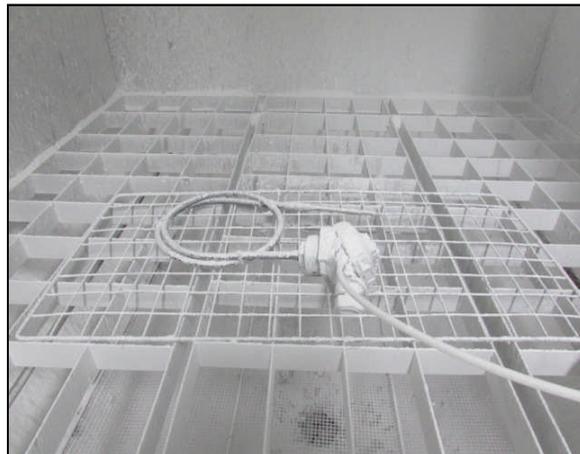
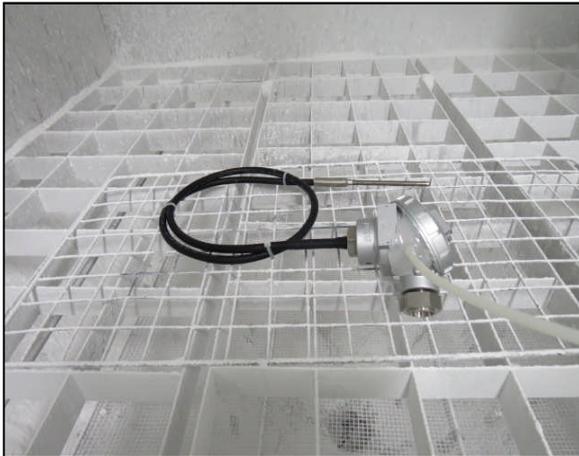
Description	Manufacturer & Model	Serial Number	The due date of next Calibration	Calibration Laboratory
Dust Chamber	Daekyung Engineering DOC-300DSEM	DOC-11-43-10DSEM	N/A	N/A
Temperature controller	HANYOUNG KX9N-SENA	825110	February 23, 2018	SICT
Pressure Transmitter	SENSORTEC KP-21N	1107048	February 26, 2018	SICT
Mass Flow Meter	XFM47	440070-1	April 25, 2018	DDHT

(3) Test result

Check item	Test result
- Confirmation of dust resistance	No dust penetration was found. (Refer to page 9)



(4) Test photograph





4.2 IPX5

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Extension lead wire Thermocouple and RTD	Tester	Lee, Hyun-woo (+82-31-240-6614)
Model	R300 Series(General Head Type)	Date	December 27, 2017
Serial No.	# 2		
Standard	IEC 60529 : 2013 Degrees of protection provided by enclosures	Page	2

(1) Test condition

- 1) IP code : IPX5
- 2) Delivery rate : 12.5 L/min \pm 5 %
- 3) Displacement : From the nozzle to sample's surface (2.5 ~ 3) m
- 4) Test time : Total 3 min
- 5) Test point : Total 4 point (Refer to Test photograph)
- 6) Status of product : ① Unpacked product ② Non-operation
- 7) Check point : After the test
- 8) Sample quantity : 1 EA

(2) List of used equipment

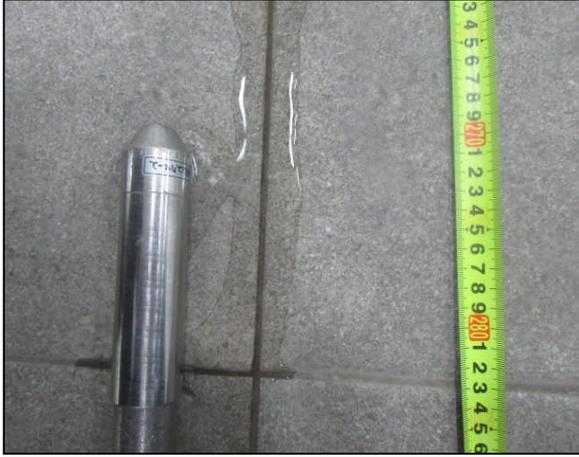
Description	Manufacturer & Model	Serial Number	The due date of next Calibration	Calibration Laboratory
Turbine Flowmeter	Blancett 110-875	082905362	March 30, 2018	DDHT
STOP WATCH	KS-201	0 704771	July 6, 2019	SICT

(3) Test result

Check item	Test result
-. Confirmation of water resistance	No water penetration was found. (Refer to page 9)



(4) Test photograph





※ Annex 1. Test result photograph



1. IP6X : No dust penetration was found.



2. IPX5 : No water penetration was found.



End.