



TEST REPORT



Report No. : SGS-R23-1844-EN00
Order No. : DTRC2308001688EN
Applicant : WISE Control Inc.
Address : 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do,
17097, Republic of KOREA
Product : Explosion proof Thermocouple and resistance temperature detector
Model : R943+A6230
Date of Test : August 22, 2023. ~ August 23, 2023.
Location of Test : Permanent testing Lab. On Site Testing
(Address :20, Dongtansandan 10-gil and 12, Dongtansandan 10-gil,
Hwaseong-si, Gyeonggi-do))
Standard / Method : IEC60529:1989+A1:1999+A2:2013
Degrees of protection provided by enclosures(IP66)
Test Result : Refer to page 9, 13.
Use of Report : For Quality Control

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

This report is accredited by KOLAS according to KS Q ISO/IEC 17025.

Affirmation	Tested by	Technical Manager
	Name : Choi, In-ho 	Name : Kim, Hak-ju 

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

August 29, 2023.

SGS Korea Co., Ltd. Dongtan Laboratory



Accredited by KOLAS, Republic of KOREA

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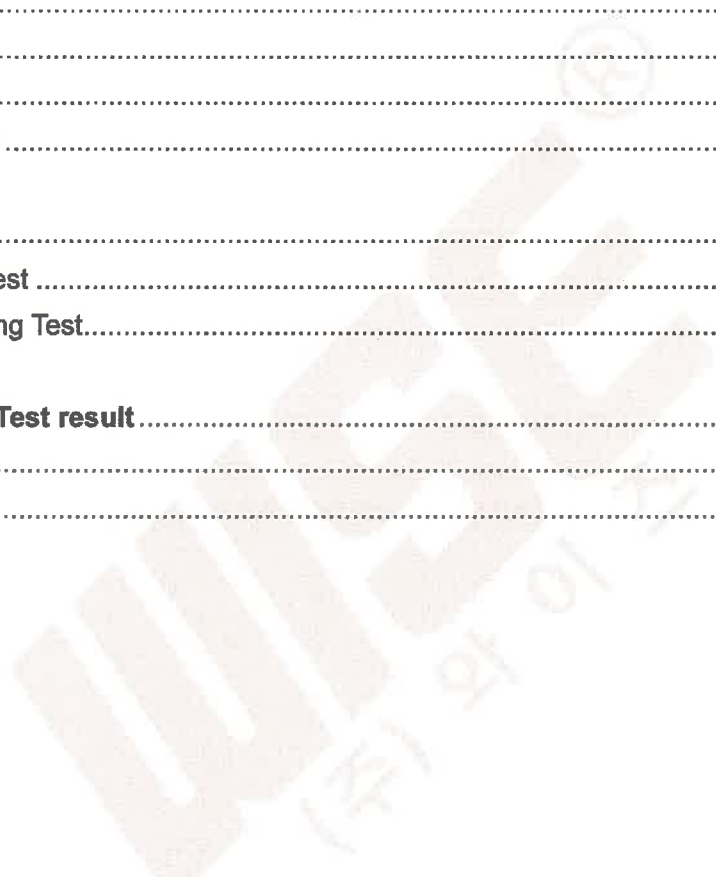
Member of SGS Group (Société Générale de Surveillance)

본 문서는 와이즈의 자산이므로 무단 유통 및 복제를 금합니다.



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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

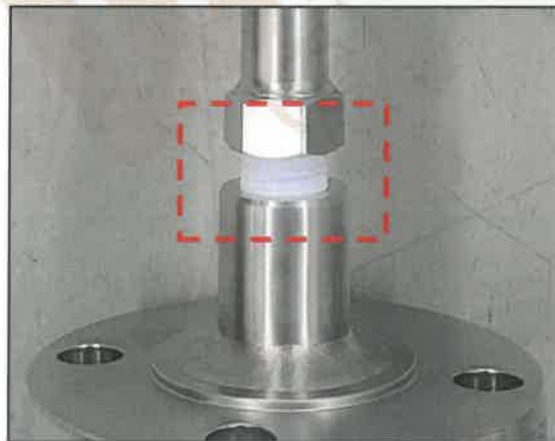
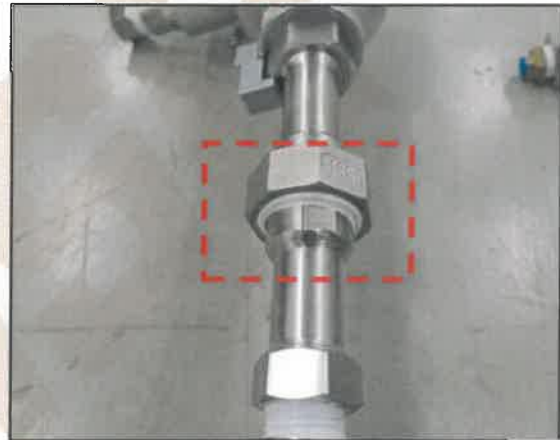
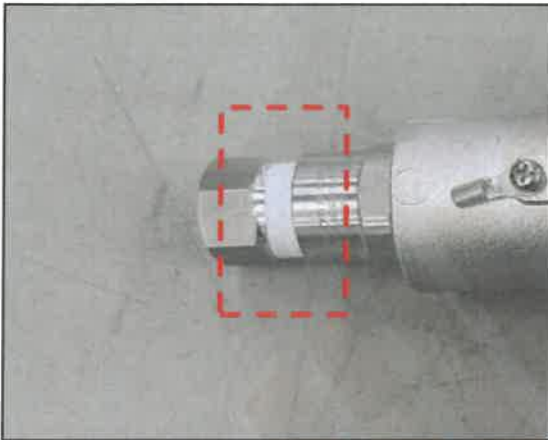
- 1) Applicant : WISE Control Inc.
- 2) Manufacturer : WISE Control Inc.
- 3) Product : Explosion proof Thermocouple and resistance temperature detector
- 4) Model : R943+A6230
- 5) Serial No. : R230801061, R230801062
- 6) No. of sample : 2 EA

2.2 Photograph





2.3 Sealing Part



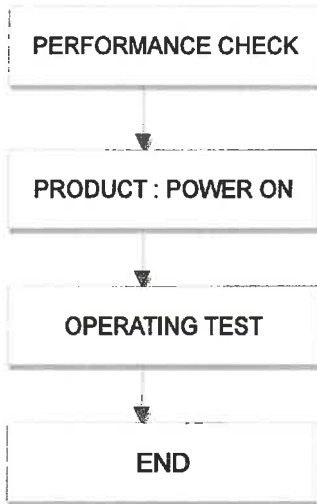


3. Test process

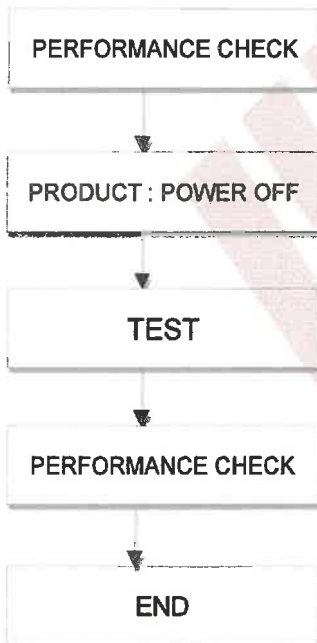
Refer to each test report

(Using one process among next two kinds of process)

3.1 Operating Test



3.2 Non-operating Test



4. Test condition & Test result



4.1 IPX6

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Explosion proof Thermocouple and resistance temperature detector	Tester	Choi, In-ho (+82-31-240-6638)
Model	R943+A6230	Date	August 22, 2023.
Serial No.	R230801062		
Standard	IEC60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures	Page	4
Test Location	SGS Korea Co., Ltd. Dongtan Laboratory		

(1) Test condition

- 1) IP code : IPX6
- 2) Delivery rate : 100 L/min ± 5 %
- 3) Displacement : From the nozzle to sample's surface (2.5 ~ 3) m
- 4) Test time : Total 3 min
- 5) Test point : Total 6 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	January 2, 2024.	,KOMETER
Stop Watch	KS-201	0704771	June 17, 2024.	SSTECH
tape measure	5 m	199926	December 27, 2024.	KTICC

(3) Test photograph



(4) Test Result photograph





(5) Test result

Check item	Test result
- Confirmation of water resistance	No water penetration was found.





4.2 IP6X

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Explosion proof Thermocouple and resistance temperature detector	Tester	Choi, In-ho (+82-31-240-6638)
Model	R943+A6230	Date	August 22, 2023. ~ August 23, 2023.
Serial No.	R230801061		
Standard	IEC60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures	Page	4
Test Location	SGS Korea Co., Ltd. Dongtan Laboratory		

(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	Daeyung Engineering DOC-300DSEM	DOC-11-43-10DSEM	-	-
Temperature controller	HANYOUNG KX9N-SENA	825110	December 29, 2023.	SSTECH
Pressure Transmitter	SENSORTEC KP-21N	1107048	December 30, 2023.	SSTECH
Mass Flow Meter	XFM47	440070-1	January 2, 2024.	KOMETER
Finger Test	IPX4	17041874-4	December 30, 2023.	SSTECH
Digital Force Gauges	FGA-20	001007	December 23, 2023.	SSTECH

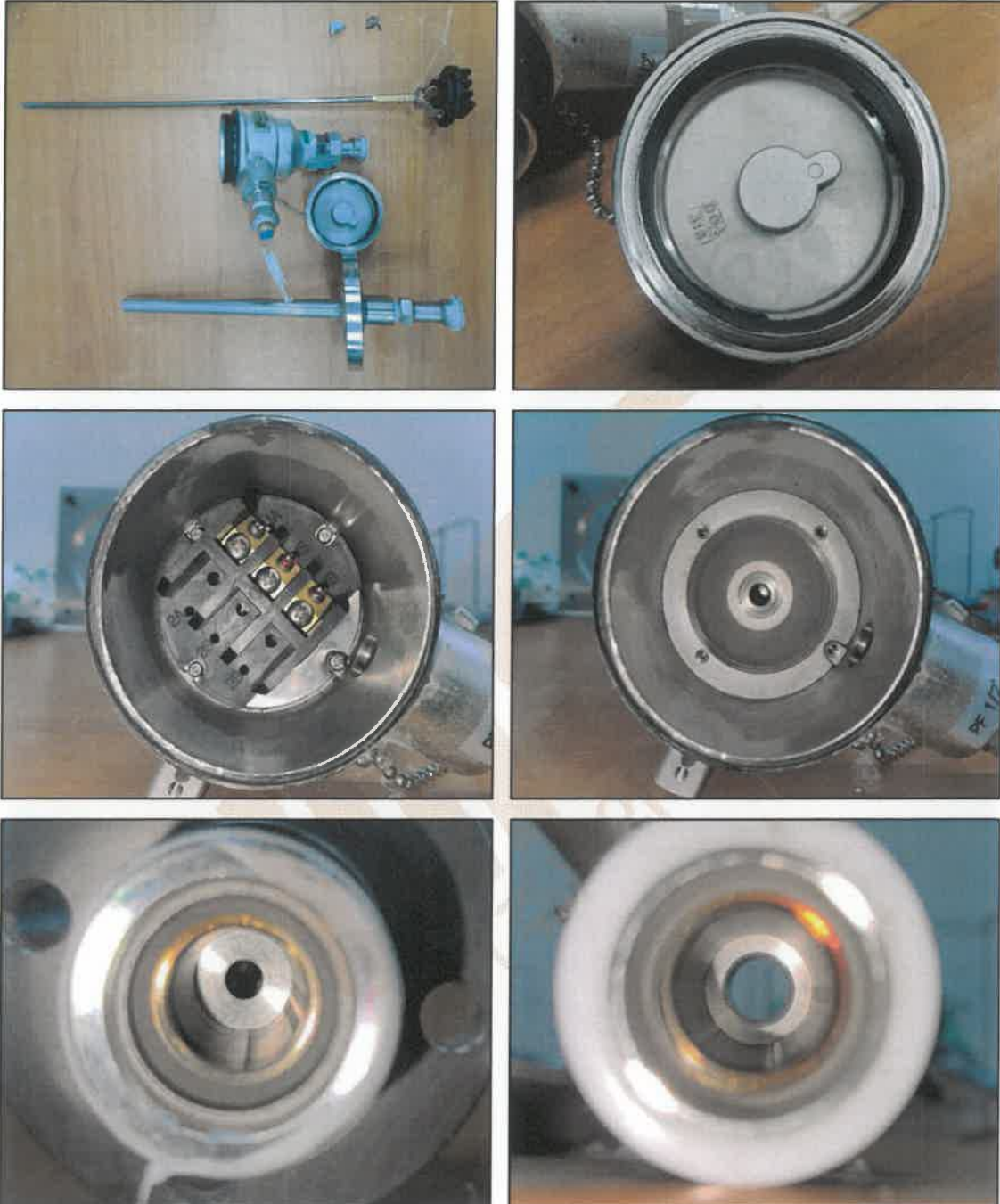
(3) Test photograph(solid foreign objects)



(4) Test photograph(access to hazardous parts)



(5) Test Result photograph





(6) Test result

Check item	Test result
- Confirmation of dust resistance	No dust penetration was found.
- Access probe penetration check	No probe penetration was found.

End.



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