

The logo for WISE, featuring the word "WISE" in a bold, italicized, white sans-serif font, followed by a registered trademark symbol (®). It is set against a red diamond-shaped background.

WISE[®]

The title "PRE QUALIFICATION" is written in a white, all-caps, sans-serif font, centered within a red diamond-shaped background.

**PRE
QUALIFICATION**

2019 Version

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Model No. SMT Series



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Company Profile ■

01



Company Profile

Business Founded

1965-05-06

Original Company Name

WISE Control Inc.

Date of Commencement of Supplying the Item for Application

1965-12-10

Name of Parent Company

GD Inc.



Decide with Confidence

D&B D-U-N-S Registered™ Member Since: Nov-21-2013

D&B D-U-N-S Registered™ Profile

Corporate Information

Company Name: Wise Control Inc.
Business Address: 2022, Deogyong-daero, Gihung-gu, Yongin, Kyonggi, 446905, Republic of Korea
Tel: +82 (31)2805101
Fax: +82 (31)2805105
Current Website: <http://www.dunsregistered.com>
Main Website: <http://www.wisecontrol.com>
Email Address: wise-hq@wisecontrol.com
Employee Size (Range): 163
Export: yes
Import: yes

Registration Information

Line of Business: Mfg of Pressure Measurement Instruments & Temperature Gauge
SIC Codes:
38230200 - Pressure measurement instruments, industrial
38230400 - Industrial process measurement equipment
38230100 - Temperature measurement instruments, industrial
Business Type: Company Limited
Date of Registration: 2007
Registration Number: Business Registration Number 1428110776, Corporation Number 1345110120672

D&B Information

DUNS Number: 631091415

Key Employees

Chief Executive Officer: Mr. Sang Hoon Lee
Chief Executive Officer: Mr. Ki Yong Park
Financial Controller: Mr. Jeong Su Kang
Director: Mr. Seong Seon Oh
Director: Mr. Yeong Il Byeon

Business Information

Linkage Information:
parent: 631151834 GD Inc.

 [Click to purchase a business report for this company](#)

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Brief History

1965 - 2006

- 1965.12 Established in Seoul (Woojin Instrument IND. CO., LTD)
- 1982.04 Acquired KS (Korea Industrial Standard)
- 1988.06 Established R&D
- 1994.09 Acquired ISO 9001 Certification for QA System
- 1997.09 Company name change to Wootin Industrial system INC.
- 1999.06 Acquired certification of EN837-1 for Pressure Gauges
- 2000.03 Company name change to Wootin Instrument & System Engineering INC.
- 2004.11 Acquired certification of IECEx for Thermocouple, R.T.D & Switch
- 2006.01 Acquired 3-A symbol marking by 3-A Sanitary Standards, Inc.
- 2006.08 Acquired certificate of ATEX (CE Marking)
for Pressure & Temperature switch
- 2006.08 Acquired certificate of ATEX (CE Marking) for Thermocouple & R.T.D

2007 - 2018

- 2007.12 Company name change to WISE Control Inc.
- 2009.12 Acquired certificate of KEMA for Temperature Sensor
(ATEX Ex ia IIC T6 to T1)
- 2011.09 Acquired of Quality System Certificate for Manufacturing of Class 1E
Thermocouple & RTD (KEPIC-EN)
Acquired of Quality System Certificate for Supplying Thermowell
(KEPIC-MN Except for Welding & Repair Welding)
- 2012.04 Relocate an Office - Flow & Level Business
- 2013.01 Revised certificate of Bureau Veritas for Space Heater
(ATEX Ex e II Gb)
- 2013.01 Acquired of Quality System Certificate for Manufacturing of
Class 1,2,3 Fabrication for Parts & Appurtenances (Inclusion of
design scop) - MN
- 2013.03 Acquired Pressure Equipment Directive Certification (97/23/EC)
Selected as KB Bank's Global Hidden Champion
- 2015.02 Entire Wise Control Employee's 50th Anniversary Trip to HongKong
- 2017.04 Launched "GAM SENSOR", a specialized brand of MEMS sensor
- 2018.07 Established Seoul Office

About us

For more than 50 years, the name WISE has been standing for innovation and quality in the field of Pressure, Temperature, Flow, Level and Gas measurement. WISE is comprised of several products divisions, state-of-the art manufacturing facilities, service center and over 60 distributors worldwide. WISE is a unique organization of individuals linked by the pursuit of excellence in product design, manufacture, service and distribution.

Major markets are served by WISE including the power generating industry, oil & gas, petrochemical and chemical processing, the pulp & paper industry, semiconductor manufacturing, the metallurgical industry, biopharmaceutical and food & beverage industry.

WISE will continue its efforts to make WISE products an integral part of the development plans of its customers.

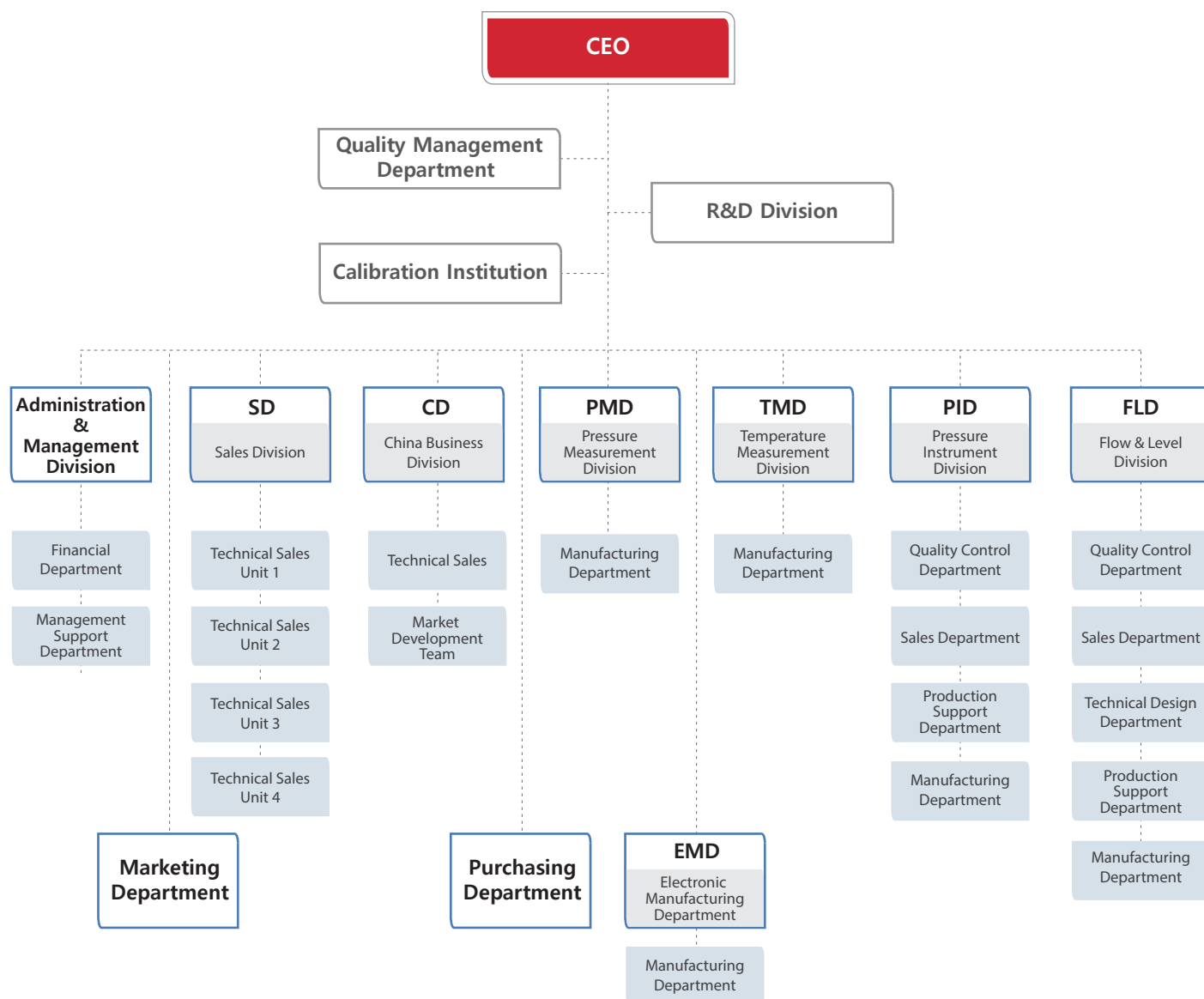
The new and exciting challenges will be met by building on a successful part rooted in recognizing and responding to customer needs, designing and producing quality products to meet those needs, providing premier customer service, and building a strong & lasting business relationship.

The Status of specialized Technical Lab Force

Licensed Field	Name of License	Career Record(approx.)	No. of Licensee
Instrumentation & Control	Instrumentation & Control Engineer 2nd Level	37 Years	1
	Industrial Instrumentation & Control Engineer	17 Years	1
Mechanical Drawing	Mechanical Drawing Engineer 2nd Level	32 Years	1
	CAD Engineer	17 Years	2
	CAD Engineer	12 Years	2
Precision Measuring	Precision Measuring Engineer	22 Years	1
Metal Porcessing (Lathe)	Lathe Engineer	37 Years	1
	Lathe Engineer 2nd Level	27 Years	2
	Jig Design Engineer 2nd Level	32 Years	1
	Numerical Control lathe Engineer	17 Years	2
	Computer Application lathe Engineer	12 Years	2
	Computer Application lathe Engineer	7 Years	1
	Numerical Control lathe Engineer	7 Years	1
Welding Master Craftman	Welding Master Craftman	12 Years	1
Special Welding	Special Welding Engineer 2nd Level	32 Years	1
	Special Welding Engineer 2nd Level	17 Years	1
	Speical Welding Engineer	7 Years	1
Electirc Welding	Electric Welding Engineer	32 Years	1
	Electric Welding Engineer 2nd Level	27 Years	1
	Electric Welding Engineer 2nd Level	17 Years	1
Regular Welding	Welding Engineer 2nd Level	32 Years	1
	Welding Engineer	7 Years	1
	Industrial Welding Engineer	7 Years	2
Electricity	Electricity Engineer	37 Years	1
	Electricity Engineer	22 Years	1
	Electricity Engineer	17 Years	1
	Electricity Engineer	12 Years	1
	Electricity Engineer	7 Years	3
Etc.	Heat Treatment Engineer 2nd Level	27 Years	2
	Arson Control Manager 2nd Level	7 Years	1
	Gas Control Engieneer 1st Level	12 Years	1
	Mechanical Processing Engineer 2nd Level	27 Years	1
	Mechanical Assembly Engineer	22 Years	1
	Mechanical Assembly Engineer	17 Years	1
	General Mechanical Engineer	12 Years	1
	General Mechanical Engineer 2nd Level	42 Years	1
	Automated Prodcution Engineer	12 Years	1

Organization & Manpower

Organization



Manpower

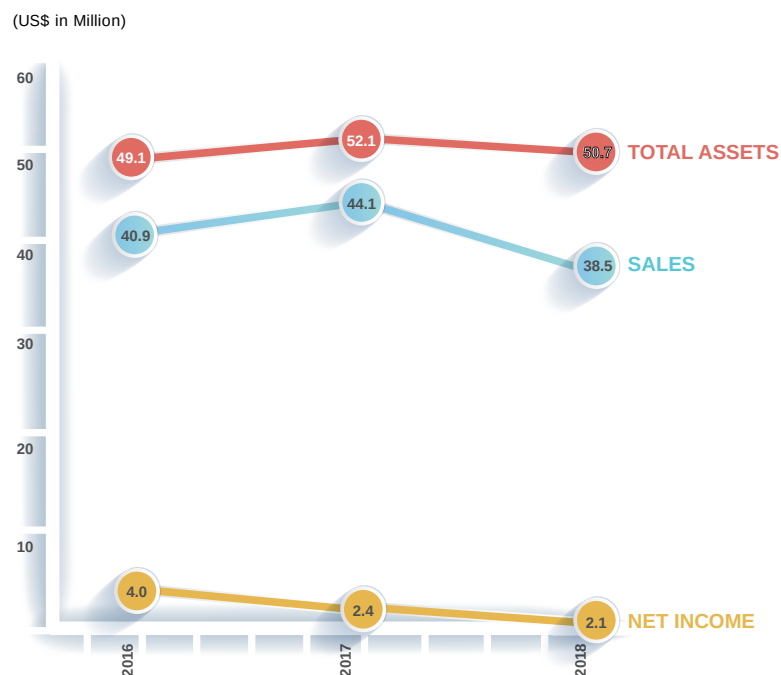
Total Number of Employees	240
Research & Development	11
Design & Engineering	16
Manufacturing	113
Overseas Sales Department	7
Quality Control	9
Other (Management)	84

Performance Within 3 years

(Unit : US\$ in Million)

	2016	2017	2018
Sales	40.9	44.1	38.5
Net Income	4.0	2.4	2.1
Total Assets	49.1	52.1	50.7

■ SALES
■ NET INCOME
■ TOTAL ASSETS



Overseas sales results for the last 5 years

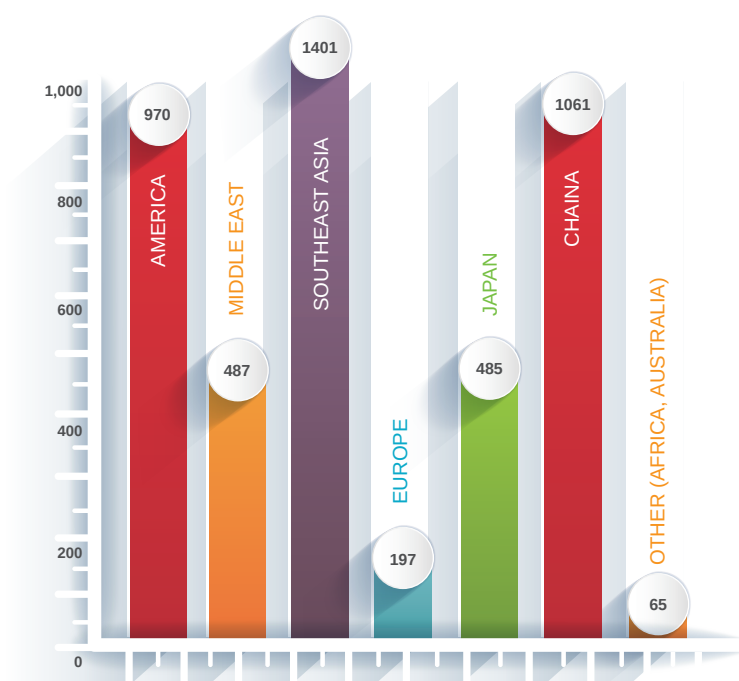
(Unit : US\$ in Thousand)

Country	2014	2015	2016	2017	2018
America	733	735	633	933	970
Middle East	248	220	415	161	487
Southeast Asia	935	1,163	1,206	1,125	1,401
Europe	314	225	145	282	197
Japan	658	1125	843	989	485
China	811	300	511	879	1,061
Other(Africa, Australia)	2	69	51	41	65
Total	3,701	3,837	3,804	4,410	4,666

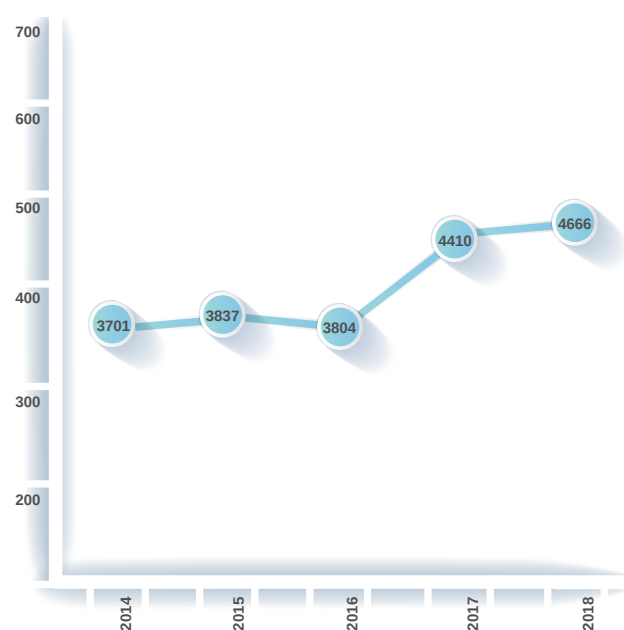
Sales by Country

Sales by Years

(Unit : US\$ in Thousand)



(Unit : US\$ in Thousand)



Quality Policy

Quality Policy

WISE Control Inc. is a company engaged in the development, manufacturing and sales of a range of measuring controllers and indicators that measure and indicate pressures, temperatures and flows in various industrial fields as well as after-sales service. It is not only to recognize the fact that "Customer satisfaction is the highest value and the top priority for the Company to accomplish", but to achieve corporate development through customer satisfaction.

■ Establishment of Quality Goal

■ Compliance with the requirements of quality management system and continuous improvement of the system

■ Continuous promotion of system to staff

I, the CEO of the Company, shall assign a quality management representative to establish and implement a quality management system for the Company in accordance with the corporate quality policy, quality goal, ISO 9001:2008, ATEX 94/9/EC and PED 97/23/EC standards, and grant him or her the responsibility and authority to verify and report the implementation status of the quality management system. In order to ensure the system to be effective and appropriate, I shall receive reports from the representative, have consultation with him or her, develop appropriate action to take and implement it as planned.

All corporate staff shall not only be familiar with the corporate quality policy, quality goal and quality management system requirements, but apply them to daily activities to provide customers services of excellent quality, and shall devote their utmost efforts to establish, maintain and implement a quality management system which ensures continuous quality improvement in response to customer requirements.

WISE Control Inc.

CEO Sanghoon Lee

Certificate

CERTIFICATE QUALITY MANAGEMENT SYSTEM



Registration Date 2018-08-27
Expiration Date 2021-08-26
Initial Registration Date 1994-08-27
Revision Date 2018-08-05
Certificate Number AC-00019

WISE CONTROL INC.

- HEAD OFFICE & YONGIN FACTORY : 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea (Zip code : 17097)
- HWASEONG FACTORY : 6, Madogongdan-ro 4-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea (Zip code : 18542)
- BUCHUN FACTORY : 122, Jomaru-ro 385beon-gil, Bucheon-si, Gyeonggi-do, Korea (Zip code : 14558)
- SEOUL OFFICE : 181, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea (Zip code : 08503)

*Korean Foundation for Quality certifies that
The Quality Management System of
the above organization has been audited and
has complied with the requirements of
the following standard*

Standard

ISO 9001:2015/KS Q ISO 9001:2015

Scope of certification

- HEAD OFFICE & YONGIN FACTORY :
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
- DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- HWASEONG FACTORY : DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- BUCHUN FACTORY :
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF BELLOWES AND HIGH VACUUM VALVES



[KAB-QC-01]



KFQ has been accredited in respect of ISO 9001 covered by the KABI Accreditation Certificate Number (KAB-QC-01)

Daehyun Nam
Daehyun Nam
President & CEO of KFQ

www.kfq.or.kr

10F, Woorim Lion's Valley Bldg. 3, 166 Gasan digital 1-ro, Geumcheon-gu, Seoul, 08591, Korea

Certificate



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

KFQ has issued an IQNet recognized certificate that the organization:

WISE CONTROL INC.

- HEAD OFFICE & YONGIN FACTORY : 2022, Deogyong-daero, Giheung-gu, Yangin-si, Gyeonggi-do, Korea (Zip code : 17097)
- HWASEONG FACTORY : 5, Madogongdan-ro 4-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea (Zip code : 18542)
- BUCHUN FACTORY : 122, Jomaru-ro 385beon-gil, Bucheon-si, Gyeonggi-do, Korea (Zip code : 14556)
- SEOUL OFFICE : 181, Gasan digital 1-ro, Geumcheon-gu, Seoul (Zip code : 08903)

for the following scope

- YONGIN FACTORY :
 - DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED)
 - DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
 - DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
 - DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- HWASEONG FACTORY : DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- BUCHUN FACTORY :
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 - DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
 - DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
 - DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF BELLOWS AND HIGH VACUUM VALVES

has implemented and maintains a

Quality Management System

which fulfils the requirements of the following standard

ISO 9001:2015

Issued on : 2018-08-27

First Issued on : 1994-08-27

For the validity date, please refer to the original certificate* issued by KFQ

Registration Number : KR - 00019



Alex Stoichitov
President of IQNet

Dae Hyeoun Nam
President & CEO of KFQ



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HSE Record and Policy

HSE Record and Policy

HSE (Health Safety Environment) Policy

The members of WISE Control Inc. will put all efforts to minimize and eliminate all potential environmental, safety and health related risks on all activities. When developing, purchasing and manufacturing, the company will also put moral and humane responsibilities as top priorities as well. The following will be executed:

- Safety Inspection Checklist for construction equipment shall be executed before any major item of construction equipment is placed into service. The original, completed resident engineer's office as a part of original file.
- Resident of equipment shall be performed at interval specified in a. above, to assure safe operating condition. Performance tests and inspections of hoisting equipment shall be repeated in accordance with Contract prior to unusual or critical lifts and after alterations, repair, or modification to the equipment

Project Safety Manual Control

1. Use of this Manual

All major management efforts such as those that promote safety and health must have guidelines (called policies, procedures, or standards) to ensure that work is accomplished in a manner designed to optimize all aspects of performance. The guidelines are normally put in writing to ensure understanding and minimize confusion and conflict as to how the work is to be done. This manual represents a "game plan" to protect the employees and to ensure the successful, profitable, and accident-free completion of the project.

To have effective program, all levels of management must accept that safety is apart of the way work is performed. Safe construction will optimize profit; therefore, safety, like profit is a result of how well we do our work. Consequently, the guidelines set forth in this manual must be followed. All levels of management are responsible for the effectiveness and implementations of these guidelines.

2. Manual Revisions

No manual can remain useful if the contents are not reviewed and updated on a regular basis.

Accordingly, the project manager will manage all project supervision at the beginning of the project and every month thereafter.

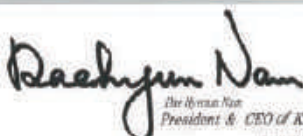
Recommendations for changes or additions shall be provided to the Safety Departments, which will be responsible for implementing appropriate updates.

3. Subcontractor Operations (If Required)

Construction operations performed by subcontractors to WISE shall conform to the provisions of this and shall be in compliance with the requirements contained in the applicable provisions of the occupational Safety and Health Administration Code, Construction and general industry standards, and local laws, requirements, standards.

Subcontractors shall be responsible for their own implementation of these provisions, and standards and shall provide WISE with all required and supporting reports and documentation that they generate during this implementation. Subcontractors shall coordinate all of their accident prevention efforts with the WISE site safety manager. Subcontractors or subcontractor personnel who demonstrate an unwillingness to comply with these provisions, requirements, and standards shall not be allowed to continue operation on the project. References in this manual such as "employee", or "personnel" shall apply to employees of both WISE and of subcontractors to WISE

Certificate

CERTIFICATE	
ENVIRONMENTAL MANAGEMENT SYSTEM	
 Korean Foundation for Quality	WISE CONTROL INC.
Registration Date	2018-08-05
Expiration Date	2021-08-04
Initial Registration Date	2012-11-05
Revision Date	2018-08-05
Certificate Number	EAC-05427
HEAD OFFICE & YONGIN FACTORY : 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea (Zip code : 17097)	
SEOUL OFFICE : 181, Gasan digital 1-ro, Geumcheon-gu, Seoul (Zip code : 08503)	
<i>Korean Foundation for Quality certifies that The Environmental Management System of the above organization has been audited and has complied with the requirements of the following standard</i>	
Standard	ISO 14001:2015/KS I ISO 14001:2015
Scope of certification	- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS(FLAMEPROOF TYPE INCLUDED) - DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER(FLAMEPROOF TYPE INCLUDED) - DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR - DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS(ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
	
 [KAB-EC-01]	
KfQ has been accredited in respect of ISO 14001 covered by the KAB Accreditation Certificate Number [KAB-EC-01]	
13F, Woomin Lion's Valley Bldg B, 68, Gasan digital 1-ro, Geumcheon-gu, Seoul, 08591, Korea	
 Daehyun Nam President & CEO of KfQ www.kfq.or.kr	

Certificate



THE INTERNATIONAL CERTIFICATION NETWORK

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• SEOUL OFFICE : 181, Gasan digital 1-ro, Gaeumcheon-gu, Seoul (Zip code : 08503)

for the following scope

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has implemented and maintains a
Environmental Management System
which fulfils the requirements of the following standard

ISO 14001:2015

Issued on : 2018-08-05

First Issued on : 2012-11-05

For the validity date, please refer to the original certificate issued by KFQ*

Registration Number : KR - 05427



Alex Stoichitoiu

Alex Stoichitoiu
President of IQNet

Dae Hyeon Nam

Dae Hyeon Nam
President & CEO of KFQ



IQNet Partners*
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BRAM Argentina IQA Japan KFQ Korea MIRTEC Greece NHST Hungary Renko AS Norway NSAI Ireland
NYCE-SIDE Mexico PCBQ Poland Quality Austria Austria IIR Russia RI Intact SIQ Slovenia
SBBM QAS International Malaysia SGS Switzerland SIGAC Romania TIST St. Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CIBQ, DQS Holding GmbH and NSAI Inc.

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Major Products

Major Products 2018 year

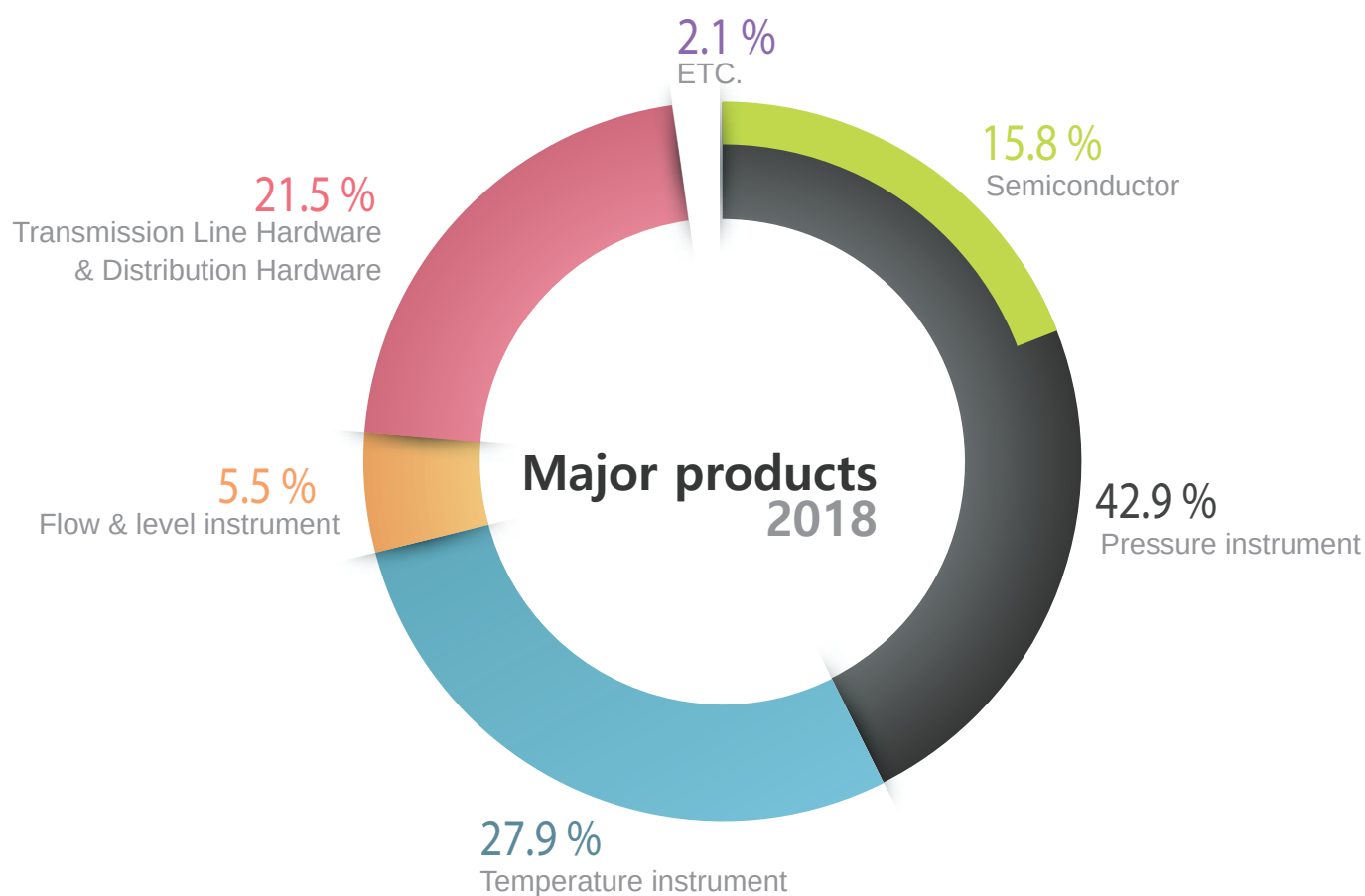
Pressure Instrument (42.9 %) _Semiconductor (15.8 %)

Temperature Instrument (27.9 %)

Flow & Level Instrument (5.5 %)

Transmission Line Hardware & Distribution Line Hardware (21.5 %)

ETC. (2.1 %)



New Products

SMT2001

Differential Pressure Transmitter



Accuracy : ± 0.05 % of Calibrated Span. ± 0.075 % of Calibrated Span.
 Range limits : 1 kPa ~ 3 MPa
 Degrees of Protection : IP66/67
 Measurement medium : Gas, Steam and Liquid

SMT2002

Gauge Pressure Transmitter



Accuracy : ± 0.05 % of Calibrated Span. ± 0.075 % of Calibrated Span.
 Range limits : 6 kPa ~ 40 MPa
 Degrees of Protection : IP66/67
 Measurement medium : Gas, Steam and Liquid

SMT2003

Absolute Pressure Transmitter



Accuracy : ± 0.05 % of Calibrated Span. ± 0.075 % of Calibrated Span.
 Range limits : 40 kPa ~ 3 MPa
 Degrees of Protection : IP66/67
 Measurement medium : Gas, Steam and Liquid

TMT180 | TMT182

Temperature Transmitter



Accuracy : $-50 \dots 250$ °C; 0,2 K / 0,08 % span
 Configuration Connection : RTD 3-Wire
 Low range value : 0.000 °C / Upper range value : 100.000 °C
 Approval : IECEx Ex d T6 Gb, Ex tb IIC Db

GLD3101 | GLD3102

Metal film leak sensor



Size : Width_26 mm, 44mm
 Product type : Water, Chemical detection
 Detection liquid : Acid, Alkali, Water, etc ..
 Rated voltage : 24 V(DC) / $\leq 50 \mu A$

GLD3201 | GLD3202 | GLD3203

Controller



Sensor output : 1 ch (5ch) / Contact output / Display
 Detection liquid : Acid, Alkali
 Size : 100*75*20 / 120*110*30 / 160*115*30 mm
 Power : 7.2 W / 24 W

GLD1000 Series

Leak detector Gas sensor type



Measuring gas : CH₄, CO, HCl, Naphthalene(C₁₀H₈), Penol, NH₃, H₂S, NaOH, H₂O₂, C₂H₂, Acetone(CH₃COCH₃), Quinoline (C₉H₇N) ..
 Measuring limits : 0.5 ~ 1000 ppm / EtOH

PT850 Series

Ultra high purity pressure transmitter



Accuracy : ± 0.25 of full scale
 Input pressure range : -15 ~ 30 psi to -15 ~ 3000 psi gauge pressure
 Long term stability : $\leq \pm 0.1\%$ FSO over 1 year
 Operating temperature range : -20 ~ 80 °C

Pressure Instrument

P110

General service pressure gauge



Dial : 40,50,60,75,100,150 and 200 mm
Range : -0.1~0.2, 0~100 MPa
Case : Black finished steel / Element:Brass, 316SS

P113

Air regulator service pressure gauge fully stainless steel wetted parts



Dial : 50 mm (2")
Range : 0~40 MPa
Case : Nickel plated steel / Movement : Brass

P140

General purpose pressure gauge



Dial : 60 and 100 mm
Range : -0.1~0, 0~35 MPa
Case and cover : Polycarbonate / Element : Brass,316SS

P163

Heavy duty service pressure gauge



Dial : 80 mm
Range : -0.1~0, 0~6 MPa
Case : Bronze / Element : Brass

P221 | P253

Industrial service pressure gauge



Dial: 40 and 50 mm
Range: 0 ~ 0.2, 0.3, 0.4, 0.6, 1, 1.5, 3.5 MPa
Case 304SS, Element 316SS(P221)/Brass(P253)

P235S | P235B

Miniature pressure gauge



Dial: 35 mm
Range: 0 ~ 0.2 MPa to 0 ~ 3.5 MPa
Case 304SS, Element 316SS/Brass

P252

Industrial service pressure gauge



Dial: 63, 80, 100 and 160 mm
Range: -0.1~200 MPa
Case 304SS, Element 316SS

P257

Safety pattern type pressure gauge



Dial : 63, 100 and 160 mm | Range : -0.1~0 to 0~200 MPa
Case 304SS, Element 316SS
Option : Zero adjustable pointer

P258

Liquid filled industrial pressure gauge



Dial: 63, 80, 100 and 160 mm
Range: 0.1~200 MPa
Case 304SS, Element 316SS

P359

Safety pattern type pressure gauge Solid-front & Turret style thermoplastic case



Dial : 125 mm | Range : -0.1 to 0~200 MPa
Case : PBTB, Element : 316SS
Option : External zero adjustment

P410 | P420

Draft gauge



Dial : 192 mm (W) x 96 mm (H), 96 mm (W) x 192 mm (H),
Pressure Range : 0~0.5 to 0~10 kPa
P410 : Case (Black finished steel), Element (316L SS)
P420 : Case (304SS), Element (316L SS)

P422

Low pressure gauge



Dial : 63, 80, 100 and 160 mm | Range : -35~0 to 0~35 kPa
Case : 304SS, Element : 316L SS, Movement : Stainless steel
Option : Silicone filling

P428 | P429

Diaphragm type low pressure gauge



Dial: 100 and 150 mm
 Range: -1~0, 0~35 kPa
 Diaphragm: 316L SS,
 Upper flange(Gauge side): 304SS, 316SS

P500

Inductive contact type pressure gauge



Dial : 100 and 160 mm | Range : -0.1~0 to 0~200 MPa
 Case : 304SS Element : 316SS
 Optional : Damping movement

P535 | P536

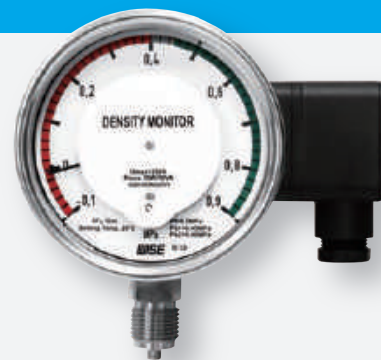
Indicating type pressure switch



Dial: 100 and 150 mm
 Range: -0.1~2, 0~35 MPa
 Case: ALDC 12.1, Element: 316SS

P590

SF₆ gas density monitor



Dial: 100 mm
 Range: -0.1~2 MPa at SF₆ gas pressure 20°C
 Case: 304SS, Element: 316SS

P620 | P630

Differential pressure gauge



Dial : 100 and 160 mm | Range : 0~1kPa to 0~1.5 MPa
Case : 304SS, Element : 316L SS
Option : Remote seal
Static pressure : 5 MPa (P620), 25 MPa (P630)

P640

Indicating type differential pressure switch with bellows element



Dial:150 mm
Range:0~25 MPa(P641),0~2.3 MPa(P642)
Case:ALDC12.1
Element:316L SS, Monel and Hastelloy-C

P650

Differential pressure gauge with Electrical contact type



Dial:160 mm
Range:0~25 kPa, 0~2.0 MPa
Case:304SS
Element:316L SS, Monel and Hastelloy-C

P660

Differential pressure gauge with Diaphragm element



Dial:100 and 160 mm
Range:0~40 kPa, 0~2.5 MPa
Case & Cover:304SS, Element:316Ti, 316L SS

P670

Differential pressure gauge with Bellows element



Dial: 100 and 160 mm
Range: 0~10 kPa, 0~0.25 MPa, 0~2.0 MPa
Case & Cover: 304SS
Element: 316L SS, Monel & Hastelloy-C

P680

Differential pressure gauge with Reed switch



Dial: 150 mm
Range: 0~25 MPa, 0~2 MPa
Case & Cover: ALDC12.1
Element: 316L SS, Monel and Hastelloy-C

P690

Differential pressure gauge with Inductive contact type



Dial: 160 mm
Range: 0~0.25 MPa, 0~2 MPa
Case & Cover: 304SS, Element: 316L SS

P710 | P720 | P730

Diaphragm seal type pressure gauge



Design: Internal diaphragm
Working temperature: Ambient -20~65°C, Max. 100°C
Diaphragm: 316L SS, Monel, Hastelloy-C, Titanium...

P750 series

Sanitary pressure gauge



Dial: 63, 80 and 100 mm
Temp: -20~65°C (Max. 121°C)
Diaphragm: 316L SS, Body: 316SS

P752S

Sanitary pressure gauge (3-A marking)



Dial: 50, 63, 80 and 100 mm
Range: -0.1~7 MPa
Case: 304SS, Diaphragm: 316L SS

P753S

Sanitary pressure gauge - Male connection (3-A marking)



Dial: 63 and 100 mm
Range: 0~3.5 MPa
Case & cover: 304SS
System filling: USP grade glycerin (FDA approved)

P761 | P762 | P763

Pressure gauge with Diaphragm seal



Design: Internal diaphragm
Range: -0.1~0.1 to -0.1~35 MPa
Diaphragm: 316L SS, Monel, Hastelloy-C,
Titanium, Tantalum, Nickel, Alloy20

P810 P820 P830

Ultra high purity pressure gauge



Nominal diameter : 35,50 and 63mm |
Range : -0.1~0 to 0~28 MPa | Case : 304SS
Cover & window : Twist-lock polycarbonate
Optional : 100mm (P252 dimension)

P840 series (316L type)

Ultra high purity pressure switch



Dial:50 mm (2")
Range:0~28 MPa
Case:304SS, Element:316L SS
Max.power:10 W/DC, 12 V/AC

P870

Anti-corrosion pressure gauge



Dial:50 mm
Range:0~0.1 to 0~1 MPa
Case:PP resin
Element:Bellows-Fluorine resin(PFA)

P880

Low differential pressure gauge



Dial:100 mm
Accuracy : ± 2.0 % of full scale
-5 ~ 5, -25 ~ 25 and 0 ~ 10 mm : ± 3.0 % of full scale
0 ~ 3000 mm : ± 4.0 % of full scale
Working temperature : Ambient -10 ~ 60°C

P930 series

Chart recorder



Case dimension: 246(W)x271(H)
Range: 0~5 kPa to 0~100 MPa
Case and cover: ALDC 12.1

P940 series

Weatherproof type pressure switch



Range: -0.1~2.5 MPa, 0~35 MPa
Working temp.: -20~65 °C (Max. 100 °C)
Element material: 316SS
Case and cover: ALDC 12.1

P945

Weatherproof type pressure switch



Range: 0.3 kPa to 15 MPa
Working temp.: -20~65 °C | Case and cover: ALDC 12.1
Element material: 316SS
EN60529/IEC529/IP65

P953 series

Explosion proof pressure switch



Fluid: Gas and oil
Working temperature: -40~65 °C (Max. 100 °C)
Element: 316L SS, Monel, Hastelloy-C and Viton
KCS Ex d IIC T6, ATEX II 2G Ex d IIC T6 Gb, IECEx Ex d IIC T6 Gb

P970

Explosion proof type differential pressure switch



Fluid: Gas and oil
Working temperature: Ambient -40~65 °C (Max. 100 °C)
Element: 316L SS, Monel, Hastelloy-C and Viton
KCS Ex d IIC T6, ATEX II 2G Ex d IIC T6 Gb, IECEx Ex d IIC T6 Gb

A070

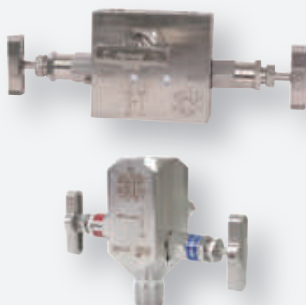
Gauge protector



Material: 316SS, 316L SS, Monel, Hastelloy-C
Accuracy: ±10%

A080T,F | A080S,W

Instrument valve



Material : Hastelloy-C, CS, 316SS, 316L SS, Monel, Inconel
Max. static pressure : Up to 25 MPa(S,W), Up to 41 MPa(T,F)
A080T,F type Manifold type : 3 way, 5 way

A090

Sunshade



Size : 230 X 370 X 125 (mm), 410 X 350 X 170 (mm)
Sunshade Material : GRP, FRP, 304SS, 316SS, Carbon steel
Gauge bracket material : 304SS, 316SS, 316L SS

Temperature Instrument

T110

Industrial Bimetal Thermometer



Dial: 50, 65, 75, 100, 125 and 150 mm
Range: -50~50, 0~600 °C
Case: 304SS, ATEX Ex II GD c IIC TX

T111

Industrial Bimetal Thermometer



Dial: 75, 100, 125 and 150 mm
Range: -50~50 to 0~600 °C
Case: 304SS, Element: Coiled bimetal

T219

Liquid filled remote reading Thermometer



Dial: 100 and 150 mm
Range: -200~100 to 0~700 °C
Case: 304SS

T240

Remote reading thermometer with full compensation



Dial: 125 and 150 mm
Measuring system: 0~300 °C (Organic gas)
Case & cover: 304SS
Armored tube: 304SS

T930

Temperature recorder (Case compensation system)



Case dimension: 246(W)x271(H)
Measuring system : 0~200 °C (Organic gas)
-200~700 °C (Inert gas)
Case and cover: ALDC

T941 | T942

Weatherproof temperature switch



Measuring system: 0~200 °C (Only T932) (Organic gas)
-200~700 °C (Inert gas)
Case and cover: Silver gray finished aluminium

T953

Explosion proof temperature switch



Certificates : Ex d IIC T6 Gb, ATEX II 2G Ex d IIC T6 Gb, IECEx Ex d IIC T6 Gb
Measuring system : 0~200°C (Organic gas), -200~700°C (Inert gas)
Case & cover : Silver gray finished aluminium
Switch form : One SPDT (T953-1B3), Two SPDT (T953-2B3)

T990

Explosion type indicating temperature switch



Certificates : Ex d IIB+H2 T6
Measuring system : 0~200°C (Organic gas), -200~700°C (Inert gas)
Case & cover : Silver gray finished aluminium
Switch form : One SPDT or Two SPDT, One DPDT

R120 series (R series)

Sheathed thermocouple



Element : K, E, J, T, N
Head material : ALDC, 304SS, 316SS

R190 RL series

Cool-down and leak detector



Certificates : KCS Ex d IIC T6
Element : Pt 100Ω at 0°C
Temperature range : -200~100 °C
Sheath material : 316L SS

R231 | R232

Sanitary resistance temperature detector



Element : Pt 100Ω at 0°C
Head type : Weatherproof (304SS)
Stem material : 304SS, 316SS

R810

Increased safety type stator winding resistance temperature detector



Working temperature : -50 ~ 180 °C
Certificates : KCS Ex e IIC Gb, ATEX II 2G Ex e IIC Gb,
IECEX Ex e IIC Gb

R300 series

Extension lead wire
thermocouple & resistance
temperature detector



Element : K, E, J, T, N, R, S, B
R.T.D : Pt 100 Ω

R500 series

Multi point thermocouple &
resistance temperature detector



Element : K, E, J, T, N
R.T.D : Pt 100 Ω
Junction box mat'l : Alumium(Standard), Stainless steel

R600 series

Tubeskin thermocouple &
resistance temperature detector



Element : K, E, J, T, N
R.T.D : Pt 100 Ω

R700

Non-metallic protection tube
thermocouple



Element : R, S, B, K

R940 series (ETR series)

Explosion proof type
thermocouple & resistance
temperature detector



Element : K, E, J, T, N
R.T.D : Pt 100 Ω
Certifications : ATEX II 2 G Ex d IIC T6 Gb, IECEx Ex d IIC T6 Gb

H100 series

Explosion proof type space heater



Tube material : 304SS
Certifications : ATEX Ex II 2G Ex e II Gb, IECEx Ex e IIC Gb, KCS Ex e II

A600 series

Bar stock thermowell with
thread connection



A603

Sanitary thermowell (3-A marking)



Flow & Level Instrument

F100

Orifice plate



Concentric, Eccentric, Segmental, Quadrant and Conical
Flange rating : JIS 10, 16, 20, 30, 40 and 63K
ANSI 150, 300, 600, 900, 1500 and 2500 Lb
Plate material : 304SS, 316L SS

F200

Orifice plate with ring



Concentric, Quadrant, Minimum quadrant
Flange rating : JIS 5, 10, 16 and 20K
ANSI 150 and 300 Lb Lb
Plate material : 304SS, 316L SS, Monel and Other

F300

Orifice plate with a holding ring



Concentric, Quadrant edged orifice
Flange rating : ANSI 300, 600, 900 and 1500 Lb
Plate material : 304SS, 316L SS

F400

Restriction orifice plate



Restriction plates, Multi-hole, Multi-stage
Line size : DN15 to DN1,800

F500

Orifice flange assembly



Flange mounting type : Welding neck, Slip-on, Socket-weld
Ring-joint welding neck
Nominal diameter : 25 ~ 600 mm, 1" ~ 24"
Flange rating : JIS 10, 20, 30, 40 and 63 K
ANSI 150, 300, 600 and 900 Lb RF

F510

Integral flow orifice assembly



Line size : Liquid (15 mm), Gas (25 mm), Steam (40 mm)
Body : 316SS
Orifice plate : 316SS, 316L SS, Alloy C-276, Alloy 400

F600

Flow nozzle



Nozzle mounting type : Flange, Weld-in, Holding ring
Nominal pipe size : 50 ~ 630 mm
Material : A182-F11, F22, F91, A-182-F304, A182-F316, F316L

F700

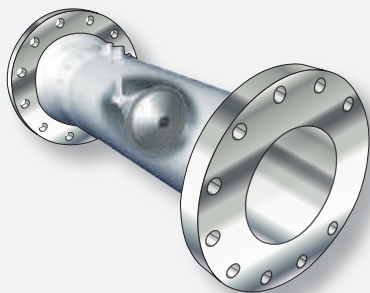
Venturi tube



Venturi type : Fabricated flange, Fabricated weld-on,
Machined flange, Machined weld-on
Flange rating : JIS 10, 16, 20, 30, 40 and 63K
ANSI 150, 300, 600 and 900 Lb

F750

Venturi cone



Accuracy : ± 0.5 % of actual flow
Line size : 0.5 ~ 120" or larger
Material : Duplex SS, 304SS or 316SS, Hastelloy C-276,
Carbon steel, Special materials on request

F770

Wedge meter



Pipe size : 0.5" ~ 24"
Material : 304SS, 316SS, 316L SS and Carbon steel

F801

Glass tube flowmeter flange connection



Size : 15A ~ 100A | Connection : Flanged
Max. Temperature : 120 °C
Material : Steel, 304SS, 316SS | Accuracy : ± 2.0 % of full scale

F820

Orifice flowmeter



Size : 10A ~ 500A | Connection : Flanged
Temperature rating : STD. 120°C, Max. 200°C
Material : Steel, 304SS, 316SS | Accuracy : ± 3.0 % of full scale

F821

Metal tube flowmeter



Contact type : 1 SPDT, 2 SPDT | Output : 4 ~ 20 mA.DC
Operating temperature : Max. 300 °C

F850

Flow switch and sight flowmeter



Size : 10A ~ 300A, 350A ~ 500A
Connection : Screw, Flanged type
Pressure rating : STD. 1 MPa, max. 6 MPa
Temperature rating : 120 °C, Max. 300 °C
Material : 304SS, 316SS, 316L SS | Accuracy : $\pm 5.0\%$ of full scale

F901

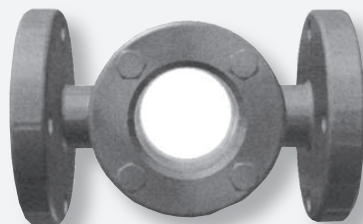
Turbine flowmeter



Size : 10A ~ 250A | Connection : Screw, Flange type
Pressure rating : STD. 1 MPa, max. 35 MPa (Option)
Temperature rating : STD. 120 °C, Max. 200 °C (Option)
Material : 304SS, 316SS, 316L SS
Accuracy : $\pm 1.0\%$ of F.S. | Enclosure : Ex d IIB T6

S110

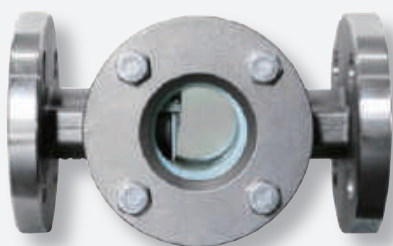
Flapper type sight glass



Line size : 1/2" ~ 8" | Connection : Flange type
Max. pressure : 2.9 MPa | Max. temp. : 300°C
Glass : Tempered

S210

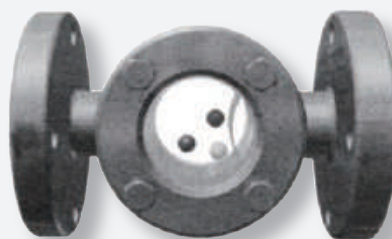
Flapper type sight glass



Line size : 1/2" ~ 8" | Connection : Flanged end
Max. pressure : 2.9 MPa | Max. temperature : 300 °C
Glass : Tempered

S310

Ball type sight glass



Line size : 1/2" ~ 8" | Connection : Flanged end
Max. pressure : 2.9 MPa | Max. temperature : 100 °C
Glass : Tempered

L100

Reflex type level gauge



Visible length : 90 ~ 3,510 mm

L200

Transparent type level gauge



Visible length : 90 mm ~ 3,510 mm

L300

Magnetic float type level gauge



Chamber size : 50A, 65A
 Flange rating : 150~900 Lb, 150~1500 Lb
 Max. temperature : 300 °C | Max. pressure : 6 MPa, 15 MPa

L400 series

Tubular gauge



Valve material : Carbon steel, Stainless steel, PVC
 Valve type : Straight type
 Size : ½" ~ 1" flanged

L500

Transparent & two-color type level gauge



Max. pressure : 10 Mpa
 Max. temperature : Sat. temperature
 Material : Carbon steel, Stainless steel

L510

Multi-port type two-color level gauge



Max. pressure : 21.5 Mpa
 Max. temperature : Sat. temperature
 Material : Carbon steel, Stainless steel



Model No. P680

Capability

Product

Pressure Instrument

- Dial size - Min : 50 mm, Max : 200 mm or etc./ Range - Min : -0.1 MPa, Max : 200 MPa
- Sun Shade Size : 230 mm × 370 mm × 125 mm / 410 mm × 350 × 170 mm / Other

Temperature gauge

- Dial Size : Min : 75 mm, Max : 150 mm or etc. / Range – Min : - 50℃, Max : 700℃

Temperature sensor

- Length - Min : 50 mm, Max : Unlimited / Range - Min : - 200℃, Max : 1,700℃

Thermowell

- Length - Min : 50 mm, Max : 10,000 mm or more than

Level Instrument

- Length - Max. 5 m / Vessel connection - Max : 2" or more than Length : 5 m

Flow element

- Out diameter - Max : 3 m / Length - Max : 10m / Thickness – Max : 100 mm

Production

Item	Capability
Pressure Instrument	25,000 ea / month
Sun Shade	3,000 ea / month
Temperature Instrument	15,000 ea / month
Flow and Level Instrument	1,000 ea / month

Major Facilities

Testing Equipments

No.	Test Equipment Name	Description	Q'ty
01	Dielectric Strength Tester	0~5 kV	1
02	Tensile Tester	30 t	1
03	Micrometer (Outdiameter)	0~25 mm	1
04	Micrometer (Indiameter)	5~25 mm	1
05	Dial type thickness Gauge	0.01~10 mm	1
06	Vernier Calipers	0 ~ 150, 200, 300 mm	10
07	Ring gauge, Plug gauge	PT, NPT, PF, UNF, BSPT	1
08	Height Gauge	0~600 mm	1
09	Multi Tester	multi	1
10	Insulation Resistance Tester	DC 500 V / 100M Ω	1
11	Vaccum Gauge	60*-76 cmHg	2
12	Hardness Tester	Vickers	1
13	Temperature Chamber	-20 ~ +100 $^{\circ}$ C	1
14	Suface & Radius Tester	800 μ m, LCD 100 * 70 mm	2
15	X-RAY ANALYSER(PMI Tester)	X-MET 5,000	1
16	Suface & Radius Tester	800 μ m, LCD 100 * 70 mm	2
17	Hydrostatic Tester	35 Mpa	2

Manufacturing Equipments

No.	Manufacturing Equipment Name	Description	Q'ty
01	CNC Machining Center	LC V-550 C	3
02	CNC Lathe Machine	PL-25 A/500	3
03	DG TIG Welder	Captain-500 T	3
04	CO2 Welder	Captain-500 C	1
05	Plasma Cutting Machine	Captain-130 P	1
06	PVC Welder	-	1
07	Marking Machine	ADM-200 F	1
08	Drill Tapping Machine	STD-360	2
09	Drill Tapping Machine	NBTG-540	1
10	Milling Machine	NSM-T	1
11	Lathes Machine	NARA-5010	1
12	Lathes Machine	NARA-6010	1
13	Cutting Machine	HA-250 ($\varnothing$ 250)	1
14	Machining Center	PV-40	1
15	CNC Lathe Machine	PL-20 A	5
16	CNC Machining Center	PL-6 G	1
17	CNC Machining Center	HIT-160	1
18	Machining Center	TC-221	1
19	Tap Drill Mate	BT-30	2
20	Index Drill Machine	ESD-350 S	2
21	Index Drill Machine	STD-410	5
22	Index Drill Machine	STD-360	2
23	High Speed Precision Lathe	-	2

No.	Manufacturing Equipment Name	Description	Q'ty
24	Marking Machine (Stencil)	-	2
25	CNC Bend Sawing Machine	WBS-C400AN	1
26	Micro Spot Welder	100V * 40 W/S	2
27	TIG Welding M/C	HB-300 P	4
28	High Speed Precision Lathe	Ø400* 1,060 mm, 3.7-4 kw	1
29	Knee Type Milling Machines	1,350 mm * 70 mm, 70 ~ 1,800 rpm	1
30	Grinder	220~380 V	7
31	Bench Turret Lathe	LB6T-3 (90 mm * 660 mm)	1
32	Furnace	Kanthal A-1 wire 0~1200℃	1
33	Furnace	Kanthal A-1 wire 0~700℃	1
34	Vacuum Heat Treatment Furnaces	Kanthal A-1 wire 0~800℃	1
35	Drying oven	0 ~ 250℃	2
36	Drying Oven	0 ~ 200℃	1
37	TIG Welding Machines	300 GTS	1
38	Plasma Welding Machines	EG PXS 050-1 (208 ~ 460 V)	1
39	Stud Bolt Welding Machines	Primary Power : 230 V/Capacity : 60,000 nF	1
40	TIG Welding Machines		1
41	TIG Welding Machines		1
42	Suction Air Blast (Sanding) Machines	1,000 W * 800 L * 150 H	1
43	TIG Welding Machines	HB-500 P	1
44	TIG Welding Machines	HB-350 P	1
45	Glove Box	For 2.5	3
46	TIG Welding Machines	3~180 A	2
47	Ultrasonic Cleaner	1 st / 50℃	1
48	Micro TIG Welding Machines	High 1 ~ 99.9 V, Low 0.1 ~ 99 A	1
49	Vacuum Package Machine	4 ~ 5 kg/cm ²	1
50	A Thermo-Hygrostat	1G (21℃, 50 %)	1
51	N2 Tank	10 kg/cm ² (575 mm*1420 mm*1280 mm)	1
52	A Thermo-Hygrostat	2G (21℃, 50 %)	1
53	Particule Measuring Instrument	10,000 Zone / 100 Zone	1
54	Inverter Micro TIG Welding Machines	0 ~ 150 A	4
55	Precision TIG Welding Machines	High Range 1 ~ 99.9 A	1
56	Chamber Welding Machines	1,300 mm*1,000 mm*1,630 mm / 1 Ton	1
57	Vacuum Package Machine	35 Kg/cm ²	1
58	UV Rays Irradiateur	UV-100 S	1
59	Milling Machine	TMV-2	1
60	CNC Lathe Machine	PUMA-240 A	1
61	CNC Lathe Machine	PUMA-240 S	1
62	Lathe Machine	TIPL-4	3
63	Lathe Machine	TIPL-410	3
64	Saw Machine	-	1
65	CNC Sawing Machine	WBS-C450AN	1
66	Gun Drill Machine	MEG-1000	1
67	TIG Welding Machines	TIG-300	1
68	TIG Welding Machines	TIG-L500 A	1
69	TIG Flange Welding System	-	1
70	Auto Marking Machine	ADM-200F(Max.Ø400)	1
71	CNC Lathe Machine	PL-24B/500-8"	1
72	Collect Chuck Type Benchleath	DK-32(6.4, 8, 10, 12, 13.8, 15, 17.3, 21.7, 25.4, 27)	1
73	CNC Machining Center	LCV-550 C / BT-50	1
74	CNC Gun Drill Machine	KEG-800-2CNC (Max. Depth : 800 L)	1

Capability

Pressure Instrument

- Dial size - Min : 50mm, Max : 200mm or etc./ Range - Min : -0.1 MPa, Max : 200 MPa
- Sun Shade Size : 230mm× 370mm×125mm / 410mm×350 ×170mm / Other

Temperature gauge

- Dial Size : Min : 75mm, Max : 150mm or etc. / Range – Min : - 50℃, Max : 700℃

Temperature sensor

- Length - Min : 50mm, Max : Unlimited / Range - Min : - 200℃, Max : 1700℃

Thermowell

- Length - Min : 50mm, Max :10000mm or more than

Level Instrument

- Length - Max. 5 m /Vessel connection - Max : 2" or more than) Length : 5m

Flow element

- Out diameter -Max : 3 m / Length- Max :10m / Thickness – Max : 100 mm

Item	Capability
Pressure Instrument	25,000 ea / month
Sun Shade	3,000 ea / month
Temperature Instrument	15,000 ea / month
Flow and Level Instrument	1,000 ea / month

Major Facilities

Materials Control



Warehouse for raw materials



Scale plate storage



Sensor head storage



Movement storage

Machining



Raw material process machining center



Raw material processing CNC

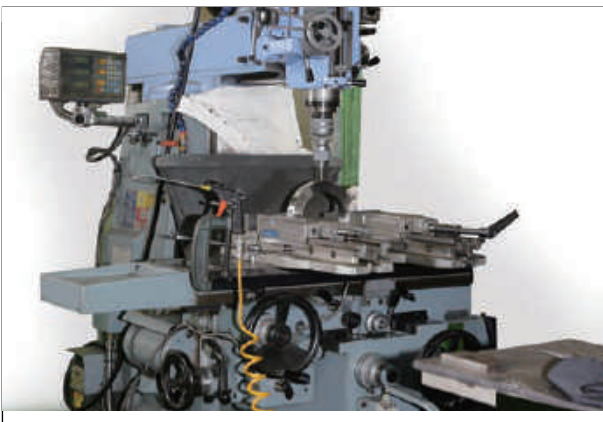


8" Raw material processing lathe



3" Raw material process milling machine

Machining



Raw material process milling machine



Tap processing machine



8" Raw material processing lathe



6" Raw material processing lathe

Machining



Raw material process machining center



Raw material process machining center



Raw material processing CNC

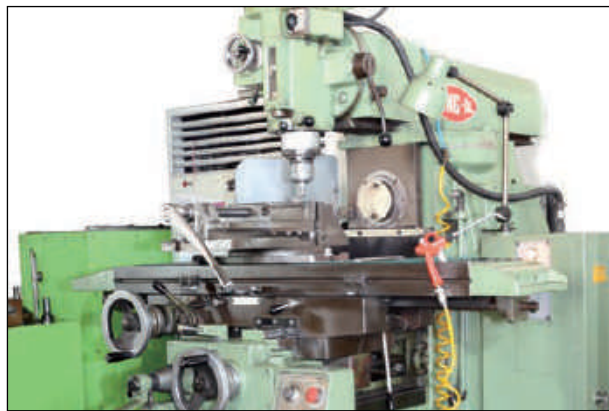


Raw material processing CNC

Machining



Tapping machine (Shank processing)



2" Raw material process milling machine



Raw material processing CNC



Raw material processing CNC

Machining



Raw material processing CNC



Raw material processing CNC



Raw material processing CNC



Raw material process machining center

Machining



Raw material process machining center



Raw material processing CNC



6" Lathe (Raw material processing)



2" Raw material process milling machine

Machining



Gundrill for thermowell processing



Gundrill for thermowell processing

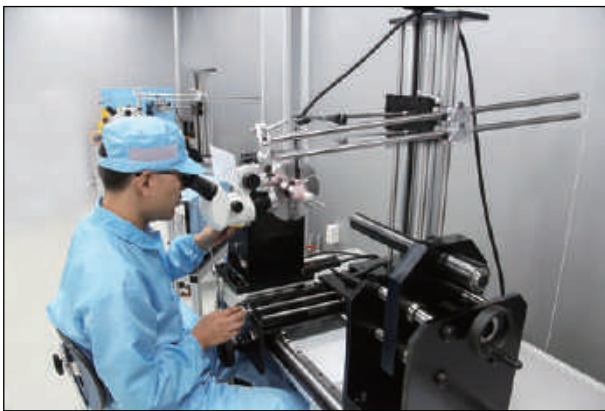


Raw material cutting machine

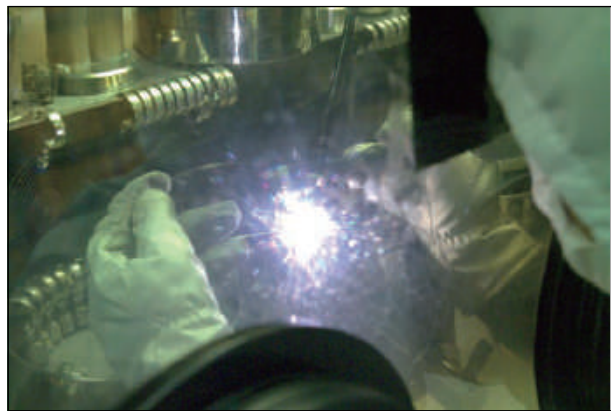


Raw material cutting machine

Welding



TIG welding machine for bellows



Chamber welding machine for BT



Argon welding machine



Argon welding machine

Welding



Laser welding machine for element



Laser welding machine for sheath and tube



TIG welding machine for TW



TIG welding machine for TW

Heat Treatment



Heat treatment equipment for temperature sensor wire (B,R,S type)



Ceramic heat treatment equipment for removing impurities



Sheath drying furnace



Epoxy drying furnace for temperature sensor

Assembly



Epoxy drying furnace for temperature sensor



Low pressure calibration for DP gauge



Sheath straightening machine



Ultrasonic washer for cleaning the processed products

Assembly



BT welding leak test machine waterlogging



Flange bolt assembly machine for diaphragm type PG



Oil filling machine for diaphragm type PG



Flange marking machine

Assembly



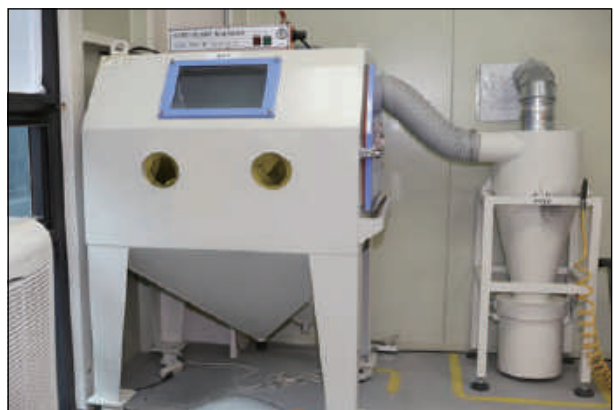
Dead-weight calibrating machine for high pressure PG



Oil filling station for P6



Bolt assembling machine for DP gauge



Sand blast machine for temperature sensor

Test and Calibration



Electronic pressure calibrating machine



Hardness tester for pressure gauge parts



Oil bath for temperature control



Oil bath for temperature control

Test and Calibration



Helium leak tester for bellows and vacuum valve



Pressure calibrating machine for a low pressure



Pressure calibrating machine for low pressure



Pressure calibrating machine for low pressure

Test and Calibration



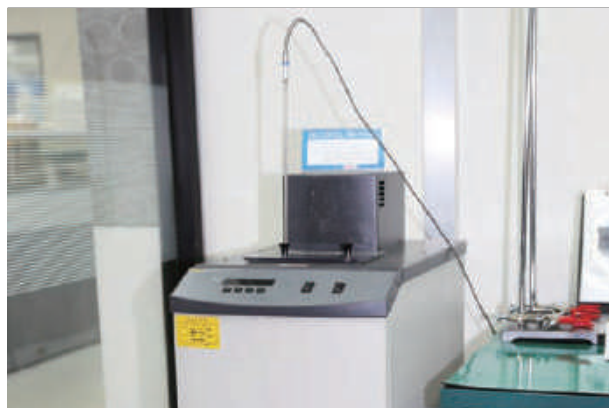
Helium leak tester for the welding area (for PG)



Electronic furnace for calibrating temperature



Furnace for calibrating temperature

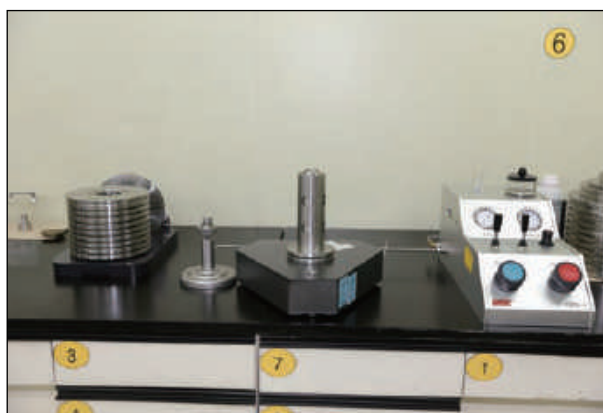


Furnace for calibrating temperature for -°C
(Below zero temperature)

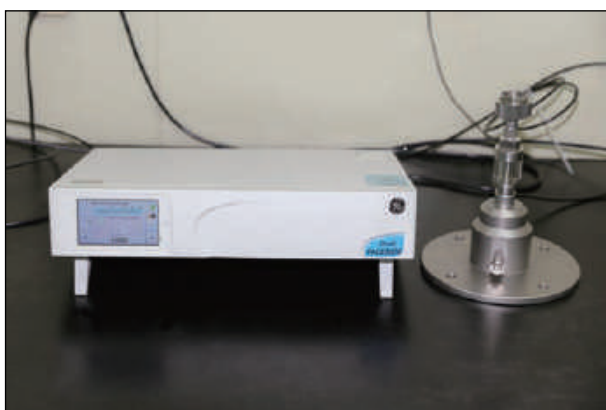
Test and Calibration



Furnace for calibrating temperature for $^{\circ}\text{C}$
(Below zero temperature)



Dead-weight pressure controller for high pressure



Electronic pressure controller for
mid pressure



Electronic pressure controller for
low pressure

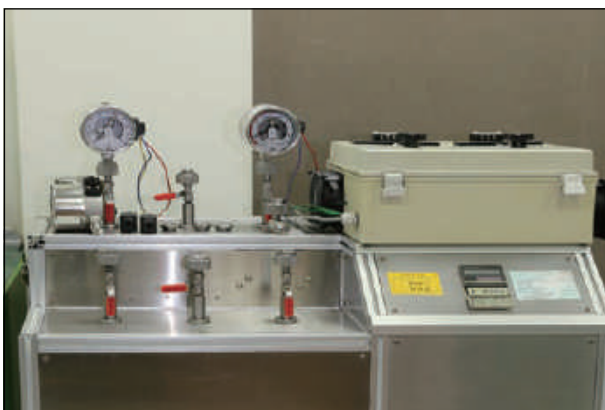
Test and Calibration



Furnace for calibrating temperature



Hardness measuring machine



Repitition test machine for contact type PG



Profilometer

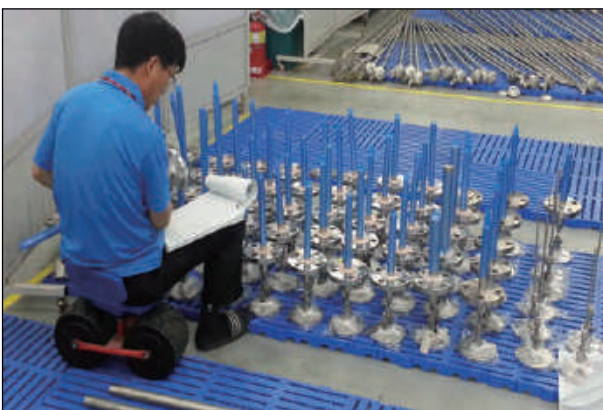
Final Inspection



Quality inspection before dispatching



PMI test



Quality inspection before dispatching



Shape measuring machine for diaphragm or bellows



Manufacturing process



Financial Statement

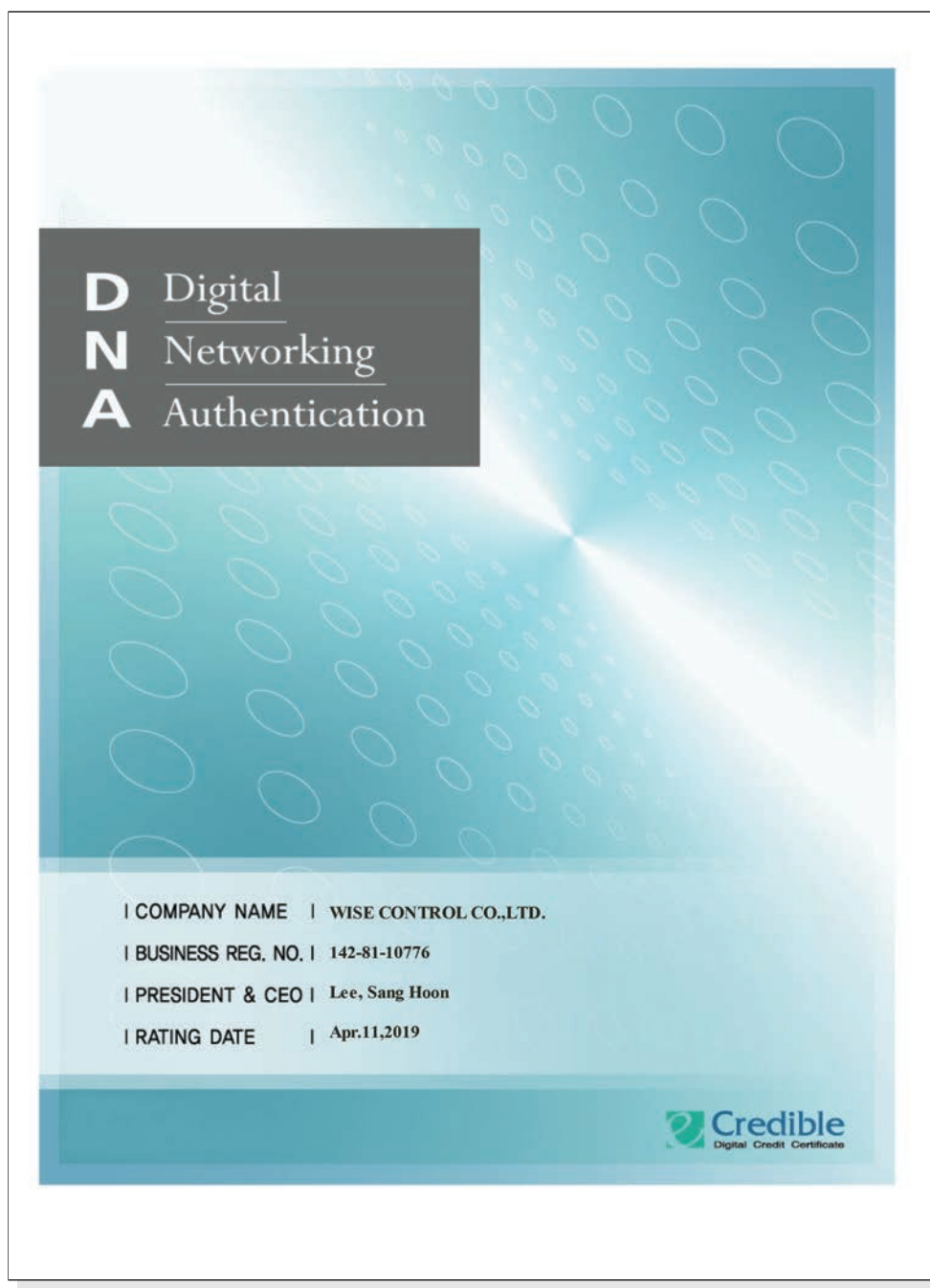
section



02

Financial Statement

Company Credit Certificate



Company Credit Certificate

CREDIT RATING

ECC201904056683 | WISE CONTROL CO.,LTD. | Lee, Sang Hoon | 142-81-10776

■ Company Information

Company Name	WISE CONTROL CO.,LTD.
President	Lee, Sang Hoon
Head Office	(17097) 199 Sanggaf-Sang, Kheung-gu, Gyeonggi-do
TEL	031-298-5100
Business Reg. Number	142-81-10776
Line of Business	Manufacturing of distribution panels and automatic control panels
Date of Registration	Dec.11,2007
Fiscal Year	Dec.31,2018
Credit Rating Effective Date	Apr.11,2019~Apr.10,2020

Credit Rating

BBB+

Credit Rating Date

Apr.11,2019

Credit Rating History

Reporting Date	Fiscal Year	Credit Rating	Cash Flow Rating
Apr.11,2019	Dec.31,2018	BBB+	A
Apr.13,2018	Dec.31,2017	BBB+	A
Apr.11,2017	Dec.31,2016	BBB+	A

■ Company Overview

Main Items	Business Profile		Customer(%)		Major Shareholders	
Measuring Instrument	No. of Employees	293	WISE CONTROL CO.,LTD.	10%	Lee, Sang Hoon	37.7%
Supply of electric power machine	Company Size	Medium	Korea Electric Power Corporation	13%	Jang, Choon Soon	14.3%
Commission fees	Legal Status	Audited Company	Wise Tech Co.,Ltd.	6%	Lee, Jung Won	6.7%
	Paid-in Capital (KRW million)	6,327	Woojin Machinery Co., Ltd.	5%	Keon, Yoon Kyung	9.8%

(Unit: KRW million)

Fiscal Year	Total Asset	Total Liabilities	Total Stockholders' Equity	Sales	Operating Income	Net Income
Dec.31,2018	98,749	16,256	42,662	44,643	2,140	2,982
Dec.31,2017	96,758	15,357	40,199	47,161	2,342	2,530
Dec.31,2016	94,719	10,915	38,199	46,588	4,955	4,677
Dec.31,2015	97,441	12,400	40,041	46,814	4,531	3,730

This DNA Report is analyzed by eCredit Co., Ltd. based on all object data submitted by the Subject Company and issued by eCredit Co., Ltd. Therefore, eCredit Co., Ltd. shall not be liable for any loss caused by your decision-making from reliance on the report. The information in DNA Report is a reference for credit ability, and is provided for your legitimate business purposes only. The rating grade will be valid for a year from the rating date. The rating can be changed or canceled when instant changes that can be influenced on its credit occur. The DNA Report is not used for supply bid.

Company Credit Certificate

I

Digital Networking Authentication

Financial Summary

WISE CONTROL CO., LTD. | 142-81-10726

142-81-10726

ETC201904025853

■ Summary Balance Sheet

Account	(Unit: KRW million)			Ratio(%)		
	2016	2017	2018	2016	2017	2018
Current Assets	30,096	30,643	17,338	55.0	47.8	29.5
Quick Assets	22,530	18,131	7,396	41.2	32.5	12.4
Inventories	7,505	5,517	13,040	13.5	15.5	17.1
Non-Current Assets	24,619	25,102	41,400	45.0	52.2	70.5
Investment Assets	368	3,600	4,060	0.7	6.5	6.9
Tangible Assets	22,589	22,894	33,728	41.3	41.0	57.4
Intangible Assets	429	1,145	1,869	0.8	2.1	3.1
Other Non-Current Assets	1,248	1,503	1,794	2.3	2.7	3.1
Total Assets	54,715	55,745	58,740	100.0	100.0	100.0
Current Liabilities	8,794	7,138	7,769	16.1	12.8	13.2
Non-Current Liabilities	1,718	8,418	8,285	3.1	15.1	14.1
Total Liabilities	10,512	15,557	16,054	19.2	27.9	27.3
Capital Stock	1,600	5,326	5,326	2.9	11.3	10.8
Capital Surplus	9,174	-85	44,286	16.8	-0.2	75.4
Capital Adjustment	0	0	-44,382	0.0	0.0	-75.6
Other Accumulated Earnings and Comprehensive Income	6,299	6,299	6,299	11.5	11.3	10.7
Retained Earnings	27,124	27,658	30,141	49.8	49.6	51.3
[Net Income For The Year]	4,477	2,533	2,482	8.2	4.5	4.2
Total Stockholders' Equity	44,199	40,199	42,686	80.8	72.1	72.7
Total Liabilities and Stockholders' Equity	54,715	55,745	58,740	100.0	100.0	100.0

■ Summary Income Statements

Account	(Unit: KRW million)			Ratio(%)		
	2016	2017	2018	2016	2017	2018
1. Sales	45,286	47,181	44,640	100.0	100.0	100.0
2. Cost of Sales	29,543	33,208	31,418	65.3	70.4	70.4
3. Gross Profit	15,643	13,973	13,222	34.7	29.6	29.6
4. Selling And Administrative Expenses	10,690	11,033	11,085	23.4	23.4	24.8
5. Operating Income	4,953	2,940	2,137	10.9	6.2	4.8
6. Non-Operating Income	885	480	874	1.9	1.0	2.0
7. Non-Operating Expense	425	617	166	0.9	1.4	0.4
8. Income from Continuing Operations before Income Tax	5,213	2,795	2,845	11.4	5.9	5.4
9. Income from Continuing Operations	4,477	2,533	2,482	9.8	5.4	5.0
10. Income from Discontinued Operations	0	0	0	0.0	0.0	0.0
11. Net Income	4,477	2,533	2,482	9.8	5.4	5.0

Company Credit Certificate

I

Digital Networking Authentication

Opinion

WISE CONTROL CO., LTD. | 152-85-10776
 Lee Sang-Hoon
 ECC001904805863

<Financial Summary>

→ Company Profile

Wise Control Inc. was established in December 2017 for manufacturing of distribution and automatic control panels by president Lee Sang-Hoon. Capital rose to KRW 6.32 billion after the merge with Wise Co., Ltd. in June 2017. As of FY2018, it is a small to mid-sized company with 230 employees, which holds KRW 58.74 billion of total assets and KRW 40.08 billion of equity.

→ Financial Analysis

In 2018, sales fell 5.4% from the previous year to KRW 44.64 billion. Operating cash flow continued a net inflow, and the company repaid entire borrowings with the operating cash and internal liquid fund. Financial structure appeared to be stable with 37.6% of debt to equity ratio.

→ As of 3 April 2019, the company was operating KRW 1.74 billion of borrowings and set building and site as collateral.

Company Credit Certificate

II Digital Networking Authentication		Company Overview		WISE CONTROL CO., LTD. / 142-81-10776 Lee, Sang Hoon E7C36790402665	
■ Company Overview (Apr. 11, 2018)					
Company Name	WISE CONTROL CO., LTD.		President, CEO	Lee, Sang Hoon	
Head Office	(17097) 199 Sanggol-dong, Kheung-gu, Gyeonggi-do				
TEL	031-260-5103		FAX	031-260-5105	
Main Office Address	(17097) 199 Sanggol-dong, Kheung-gu, Gyeonggi-do				
TEL	031-260-5103		FAX	031-260-5105	
Date of Registration	Dec. 11, 2002		Main Bank	Ssang Bank, Foreign Currency Exchange Bank	
Business Reg. No.	142-81-10776		Incorporated No.	135511-0120072	
Company Size	Medium		Legal Status	Audited Company	
Homepage	www.wisecontrol.co.kr		e-mail Address	hsejhm@wisecontrol.co.kr	
SIC Code	Manufacturing of distribution panels and automatic control panels				
Major Item(s)	Press Measuring instrument				
No. of Employment (Persons)	Total 235 [Officer (82) / Technician (22) / Production Employee (121) / Others (6)]				
Labor Union	No		Labor Union Group		
■ Office & Factories (Apr. 03, 2018)					
Address	(199) Sanggol-dong, Kheung-gu, Gyeonggi-do				
TEL	031-260-5103		FAX	031-260-5105	
Land	0a		Building	0a	
Ownership	Ownership (O) Rent (Yearly) () Rent (Monthly) ()		Rent Reference	Rent (Deposit) 0 (KRW million) / Monthly Payment 0 (KRW thousand)	
Location Condition	Industrial Area () Factory Area () Commercial Area () Residential Area (O) Other Area ()				
self-manufacturing	Subcontract		Order	Market Production	
100 %	0 %		100 %	0 %	
-self-manufacturing: % of manufacturing itself			-% of Order: Ordered by User		
-Subcontract: % of subcontract order			-Market Production: Depending on Market Demand		
(Apr. 03, 2018, Unit : KRW million)					
Type	Quantity	Unit	Book Value	Others	
Electronic beam sensor	0	LOT	151		
CNC gun drill machine	0	EA	150		
Machine center	0	EA	145		

Company Credit Certificate

III

Digital Networking Authentication

Management

WISE CONTROL CO.,LTD. T. 142-881-10726
Lee, Sang Hoon
ET/CA/190402665

President & CEO

CEO 11: President

Name	Lee, Sang Hoon	Resident ID No.	638919-*****
Address	50, Hyonyeong-ro 33-gil, Seodong-gu, Seoul		
TEL	031-280-****		
License			
Ownership	Founder	Prize	
Date of Inauguration	Dec.11,2007	Career History as a CEO	21 years 1 month
Final Education	1983 Seolle Univ. Graduation	Major	Politics
Major Experience			
Period	Company Name	Type of Business	Position
2007/12~	WISE CONTROL CO., LTD.	Manufacturing	President
1999/03~2006/01	Wise Control Inc.	Manufacturing	President
1999/04~2007/12	Wise Control Inc.	Manufacturing	Director
1996/10~1999/06	Wise Control Inc.	Manufacturing	Department head
1990/11~1996/10	Wise Control Inc.	Manufacturing	Staff

Company Credit Certificate



Digital Networking Authentication

Management

WISE CONTROL CO., LTD. | 152-85-10776

Lee, Sang-Hoon

ECC001904805983

■ Management

Position	Name	Resident ID No.	Relationship With Owner	Education	Major Career
President	Lee, Sang Hoon	530916-*****	owner	Seattle Univ.	Wise Control Inc.
Director	Jang, Choon Soon	970529-*****	Family		WISE CONTROL CO., LTD.
Director	Oh, Sung Gun	900107-*****	unaffiliated	Kwangju University	Wise Control Inc.
Director	Oh, Jung Soo	66-224-*****	unaffiliated		WISE CONTROL CO., LTD.
Auditor	Seo, Boon Yong	690813-*****	unaffiliated		WISE CONTROL CO., LTD.

■ Shareholders

Stock Issue

(Apr.03.2019)

The face Value per Share (KRW won)	Share Issued (1,000 shares)
100	12,653

Major Shareholders

(Unit: KRW million, %)

Name Of Shareholder	Relationship With Owner	Amount	Ratio
Lee, Sang Hoon	owner	2,359	37.2
Jang, Choon Soon	Family	601	14.3
Lee, Jung Wook	Family	509	8.3
Woon, Yoon Kyung	Relative	618	8.8
WISE CONTROL CO., LTD.	unaffiliated	1,875	29.8
		0	0
		0	0
		0	0
Total		6,326	100.00

Company Credit Certificate

IV Digital Networking Authentication		Operating & Banking		WISE CONTROL CO., LTD. 142-81-10726 142, Song Hyeon ET, Chon 93402605	
■ Suppliers					
Name	Business Reg. No.	Transaction Period(Jan.01,2018~Dec.31,2018)			
		Ratio(%)	Amount(KRW million)		
WISE CONTROL CO., LTD.	142-81-10726	20	9,801		
SCS Pric Co., Ltd.	143-81-77476	7	3,344		
Gasan Knowledge Industry Center	254-04-00214	5	2,501		
SB Development Project Co., Ltd.	130-87-25739	5	2,297		
Incheon Main Customs	121-83-00551	4	1,879		
■ Customers					
Name	Business Reg. No.	Transaction Period(Jan.01,2018~Dec.31,2018)			
		Ratio(%)	Amount(KRW million)		
WISE CONTROL CO., LTD.	142-81-10726	15	9,801		
Korea Electric Power Corporation	120-82-00052	13	7,301		
Wise Tech Co., Ltd.	135-81-55499	5	2,844		
Woojin Machinery Co., Ltd.	142-81-47053	5	2,810		
Woojin Machinery Co.	810-42-88876	3	1,524		
■ Financial Transaction Summary (Apr.11,2019)					
Main Bank	Singat Branch, Foreign Currency Exchange Bank	Overdraft Bank			
National Tax	No Delinquency	Local Tax	No Delinquency		
Negative Record	-				
CEO Creditability	Normal				
Negative Information					
■ Financial Debt (Data:Apr.11,2019, Unit:KRW million)					
Banks	Branch	Financial Debt(Balance)	Reference		

Company Credit Certificate

V	Digital Networking Authentication	WISE CONTROL CO., LTD. Y. 142-B1-10779		
	Financial Statement	List: Seng Hunn		
		ETC20190402583		
■ Balance Sheet		Unit : KRW million		
		Asset		
Fiscal Year	Reference	Dec 31, 2018	Dec 31, 2017	Dec 31, 2016
		Unqualified	Unqualified	Unqualified
1. Current Assets		30,099	26,049	17,339
1) Quick Assets		22,506	18,131	7,888
Cash And Cash Equivalents		18,567	11,291	686
Short-Term Financial Instrument		0	0	0
Short-Term Marketable Securities		190	0	0
Accounts Receivable		6,727	5,319	5,784
Accounts Receivables -Others		0	0	0
Short-Term Loans		0	0	0
Note Receivables		156	110	54
Accrued Revenue Receivable		0	17	0
Advance Payment		0	0	481
Advance Payment In Costs		0	0	285
The Other Of Current Asset		489	1,092	0
2) Inventories		7,558	3,617	10,040
Merchandise		0	0	0
Finished Goods		993	593	1,517
Semi-Finished Goods		0	0	0
Work-in-Process		2,093	2,262	3,515
Construction In-Process		0	0	0
Raw Materials		4,561	4,781	4,500
Others		75	177	65
2. Non-Current Assets		24,619	29,107	41,400
1) Investments		566	3,603	4,669
Long-Term Financial Instruments		0	1,336	1,754
Long-Term Marketable Securities		313	2,183	2,082
Long-Term Loans		54	177	232
Investment Properties		0	0	0
The Other Of Investments		0	0	0
2) Tangible Assets		22,580	22,394	35,728
Land		18,251	18,755	19,291
Buildings		3,144	2,949	10,935
Structures		296	934	863
Machinery		1,190	1,566	1,408
Equipment		86	63	36
Construction In-Progress		5	63	115
The Others Of Tangible Assets		112	90	0
3) Intangible Assets		425	1,145	1,809
Goodwill		0	0	0
Pre-Operating Costs		0	783	873
The Others Of Intangible Assets		425	362	936
4) The Others Of Non-Current Assets		1,248	1,505	1,794
Guarantee Deposits		1,248	1,505	1,794
Deferred Income Tax Debts		0	0	0
Long-Term Account Receivables		0	0	0
Others		0	0	0
Total Assets		54,718	55,156	58,740

Company Credit Certificate

Fiscal Year	Liabilities And Stockholders' Equity		
	Dec.31.2016	Dec.31.2017	Dec.31.2018
Reference	Unqualified	Unqualified	Unqualified
1. Current Liabilities	9,797	7,138	7,769
Account Payables	9,996	9,052	9,496
Short-Term Borrowings	100	100	0
Non-trade Payables	1,773	1,496	1,606
Accrued Expenses	0	0	74
Advance from Customers	27	66	108
Advance from Customers (construction & building sales)	0	0	0
Withholdings	2,213	2,002	2,187
Income Taxes Payable	794	117	377
Suspense Receipt	0	0	0
Current Portion Of Long-Term Debt	0	0	0
Unearned Revenue	0	0	0
Liability Provisions	0	0	0
The Others Of Current Liabilities	0	0	26
2. Non-Current Liabilities	1,718	8,418	8,298
Bonds	0	0	0
Discount on Bonds Issued	0	0	0
Long-term Borrowings	0	0	0
Long-Term Account Payable	0	0	0
Leasehold Deposits Received	0	0	0
Advanced	0	0	0
Deferred Income Tax Credit	1,718	8,418	8,298
The Others Of Non-Current Liabilities	0	0	0
Total Liabilities	10,515	15,557	16,068
1. Capital Stock	1,600	6,326	6,326
2. Capital Surplus	9,174	-86	41,296
Paid-in Capital In Excess Of Par Value	9,174	-86	31,174
Gain On Capital Reduction	0	0	0
Market Adjustments	0	0	0
The Others Of Capital Surplus	0	0	35,121
3. Capital Adjustment	0	0	-41,382
Discount On Stock Issuance	0	0	0
Treasury Stock	0	0	-41,382
The Others Of Capital Adjustments	0	0	0
4. Other Accumulated Earnings and Comprehensive Income	6,299	6,299	6,299
Gain/Loss on overseas Operations Translation	0	0	0
Gain/Loss on Investment Securities	0	0	0
Foreign Exchange Translation Credit/Debit	0	0	0
Others	6,299	6,299	6,299
5. Retained Earnings	27,134	27,608	30,141
Legal Reserve	800	800	800
The other Reserves	2,830	1,475	490
Accumulated Retained Earnings	23,434	25,332	28,850
Net Income	4,477	2,505	3,482
Stockholders' Equity	44,199	40,199	43,683
Total Liabilities And Stockholders' Equity	54,715	55,756	59,740

Company Credit Certificate

 Digital Networking Authentication Financial Statement WISE CONTROL CO., LTD. 142-81-10720 148, Song Hyun ETC0190402905			
Income Statement		Unit : KRW million	
Account	Jan 01, 2016 Dec 31, 2016	Jan 01, 2017 Dec 31, 2017	Jan 01, 2018 Dec 31, 2018
1. Sales	49,508	47,181	44,843
2. Cost Of Sales	29,903	33,206	31,418
Beginning Inventory Of Merchandise	0	0	0
Cost Of Goods Manufactured During The Year	0	0	0
Transfer to Other Accounts	0	0	0
Ending Inventory Of Merchandise	0	0	0
Cost of Construction	0	0	0
Cost of House & Office Sales	0	0	0
Others	0	0	0
3. Gross Profit	19,605	13,975	13,425
4. Selling And Administrative Expenses	10,630	11,232	11,046
Salaries	4,730	4,878	5,088
Retirement Allowance	527	578	607
Employee Benefits	505	624	598
Rent	35	42	34
Reception Expenses	57	31	40
Depreciation	110	122	105
Amortization On Intangible Asset	65	87	103
An Insurance Bill	79	406	383
Taxes And Dues	257	284	295
Advertising	28	25	17
Research Expense	0	0	0
R&D Expense	2,011	1,667	1,308
Bad Debt Expense	12	19	-5
Maintenance Expense on Real-estate Held for Sale	0	0	0
Other Expense	429	489	652
5. Operating Income	4,955	2,742	2,379
6. Non-Operating Income	656	490	674
Interest Income	154	114	46
Dividend Income	49	49	80
Rental Income	92	83	87
Gain On Disposition Of Marketable Securities	0	0	262
Gain On Valuation Of Marketable Securities	0	0	0
Gain On Foreign Currency Transaction	126	38	146
Gain On Foreign Currency Translation	76	3	14
Gain On Variation Of Using Equity Method Of Accounting	0	0	0

Company Credit Certificate

 Digital Networking Authentication Financial Statement WIDE CONTROL CO., LTD. 152-85-10776 Lee Sang Hoon E00301904805983			
Income Statement		(Unit : KRW million)	
Account	Jan 01, 2016 Dec 31, 2016	Jan 01, 2017 Dec 31, 2017	Jan 01, 2018 Dec 31, 2018
Recovery Of Investment Securities Impairment Loss	0	0	0
Gain On Disposition Of Investments	0	0	0
Gain On Disposition Of Tangible Assets	0	11	0
Gain On Redemption Of Debentures	0	0	0
Gain From Assets Contributed	0	0	0
Gain On Cancellation Of Debt	0	0	0
Gain On Insurance Settlement	0	0	0
Repayment of Income Tax	0	0	0
The Others of Non-Operating Income	199	189	248
7. Non-Operating Expense	425	537	188
Interest Expense	18	8	42
The Others Bad Debt Expense	245	75	-1
Loss On Disposition Of Marketable Securities	0	0	2
Loss On Valuation Of Marketable Securities	0	0	0
Loss On Valuation Of Inventories	0	0	0
Loss On Foreign Currency Transactions	81	125	39
Loss On Foreign Currency Translation	4	231	8
Donations	65	0	0
Loss On Valuation Using Equity Method Of Accounting	0	0	0
Marketable Securities Impairment Loss	0	0	0
Loss On Disposition Of Investment Assets	0	0	0
Loss On Disposition Of Tangible Assets	13	0	0
Loss On Dedemption Of Debentures	0	0	0
Casualty Losses	0	0	0
Compensation	0	0	0
Additional Payment Of Income Tax Applicable To Prior Years	0	0	0
The Others Of Non-Operating Income	-1	195	70
8. Income from Continuing Operations before Income Tax	5,218	2,796	2,848
9. Income Tax from Continuing Operations	738	362	326
10. Income from Continuing Operations	4,477	2,533	2,482
11. Income from Discontinued Operations	0	0	0
Income Tax Effect	0	0	0
12. Net Income	4,477	2,533	2,482
13. Earning Per Share-Net Income	-	-	-
Earnings Per Share (Unit:won)	0	0	0
Diluted Earnings Per Share (Unit:won)	0	0	0

Company Credit Certificate

V Digital Networking Authentication Financial Statement WISE CONTROL CO., LTD. 142-91-10720 444, Song Hyeon 27, Cheongju 34102600			
■ Cash Flow Analysis			
(Unit : KRW million)			
Account	Dec.31,2017	Dec.31,2016	
Sales	47,161	44,043	
Account Receivables Increase(+), Decrease(-)	1,383	-458	
Advance Receipts increase(+), Decrease(-)	41	39	
Cost of Sales	-33,806	-31,418	
Inventories Increase(+), Decrease(-)	-958	-1,529	
Account Payables Increase(+), Decrease(-)	-606	142	
Advance Payment (+/-)	0	-481	
Depreciation(-)(CR)	733	1,132	
Gross Cash Profit	14,588	12,075	
Selling And Administrative Expenses(-)	-11,032	-11,006	
Prepaid Expenses increase(+), Decrease(-)	0	-283	
Accrued Expenses increase(+), Decrease(-)	0	54	
Non-Cash Transactions	308	1,008	
Cash Profit	4,442	1,790	
Interest Income / Dividend Income(+)	163	120	
Income Tax(-)	6,830	-286	
Other Operating Cash In and Out (+/-)	-887	-732	
Cash Flow from Operating Activities	9,549	958	
Interest Expense(-)	-6	-42	
Cash Flow after Interest Expense	9,543	916	
Other Asset Increase and Decrease	-609	1,108	
Other liabilities increase and Decrease	0	25	
Other Ordinary Cash Flow	-316	377	
Cash Flow from Ordinary Activities	8,617	2,439	
Short-Term Financial Asset Increase(+), Decrease(-)	0	0	
Securities Increase(+), Decrease(-)	100	346	
Short-Term Loan Increase(+), Decrease(-)	0	5	
Accrued Receivable Increase(+), Decrease(-)	-200	166	
Investment Asset Increase(+), Decrease(-)	-3,336	-465	
Tangible Asset Increase(+), Decrease(-)	-1,117	-12,108	
Intangible Asset Increase(+), Decrease(-)	-808	-766	
Other Non-Current Assets Increase(+), Decrease(-)	-257	-200	
Cash flows from investing activities	3,067	-10,296	
Payment for Current Portion of Li Debt	0	0	
Short-Term Debt Increase(+), Decrease(-)	0	-105	
Long-Term Debt Increase(+), Decrease(-)	0	0	
Equity Change Increase(+), Decrease(-)	-6,593	0	
Dividends(-)	0	5	
Cash Flows from Financing Activities	-3,405	-10,696	
Net Change in Cash(Ending-Beginning)	-3,405	-10,696	
Cash Ratio	30,8832	1,6374	
Total Debt to Net Cash Operation	4,6720	99,0909	

Company Credit Certificate



Digital Networking Authentication

Financial Statement

 WISE CONTROL CO., LTD. | 152-81-10776
 Lee, Sang-Hoon
 E00301904805963

■ Statement of Cost of Goods Manufactured

(Unit : KRW million)

Account	Dec.31,2018 Jan.01,2018	Dec.31,2017 Jan.01,2017	Dec.31,2016 Jan.01,2016
1. Raw Material Cost	14,595	15,201	16,974
2. Labor Cost	6,057	6,066	6,296
3. Manufacturing Expenses	6,188	6,472	6,489
Electricity	211	210	250
Fuel/Utilities	10	8	10
Transportation	50	46	50
Depreciation	800	733	1,132
Repair Expenses	56	66	78
Vehicle Run. Cost	13	11	9
Employee Benefits	694	674	625
Travel expenses	30	20	41
Communication Expense	0	0	0
Patent Fees	0	0	0
Manufacturing Costs in Outside/Sub-Contract Process	0	0	0
Others	466	454	370
4. Total Construction(Manufacturing) Costs	26,612	30,729	28,760
5. Beginning Construction in Process/Work in Process	2,302	2,256	2,722
6. Ending Construction in Process/Work in Process	2,268	2,793	3,798
7. Transfer to other accounts	0	0	0
8. Cost of Goods manufactured	26,646	30,774	28,754

■ Statements of Retained Earnings

(Unit : KRW million)

Account	Period Appropriation Date	Dec.31,2018 Feb.28,2017	Dec.31,2017 Mar.30,2018	Dec.31,2016 Mar.05,2016
1. Retained Earnings before Appropriations		22,434	25,162	26,660
(1) Adjusted Prior Year Unappropriation Retained Earnings		16,957	22,849	26,028
Unappropriation Retained Earnings from Prior Year		16,900	22,849	26,067
Accumulated Effect of Changes in Accounting Policy		0	0	0
Gain/Loss on Prior Period Error Correction		0	0	0
Interim Dividends		0	0	0
Others		0	0	0
(2) Net income		4,477	2,530	2,482
2. Transfer from Discretionary Reserve		1,415	956	490
3. Appropriation of Retained Earnings		2,000	0	0
Legal Reserve		0	0	0
Reserve for Rationalization		0	0	0
Reserve for Financial Structure		0	0	0
Amortization of Discount on Stock Issuance		0	0	0
Dividends		2,000	0	0
Other Reserves		0	0	0

Main Award Records





1995	1995. 11	Million Dollar Export Tower
2006	2006. 06	Small Business Corporation - World Class Company
2008	2008. 07	SK energy - Certificate of Appreciation
	2008. 09	Yong-In City Council - Industrial peace destination
	2008. 11	HART communication foundation - Certificate of Membership
	2008. 12	Governor of Gyeonggi-do - Midsize businesses of Gyeonggi-Do
2009	2009. 03	Korea University - Certificate of Appreciation
	2009. 11	Kyeonggi Regional Office Small & Medium Administration - Award Certificate
2010	2010. 10	The University of TEXAS at Austin - Certificate of Accomplishment
2012	2012. 11	Woori Bank - Certificate of Appreciation
2013	2013. 03	KB Bank - KB Hidden Star 500 Selected
	2013. 03	EBARA Corporation - Certificate of Appreciation
2014	2014. 04	Small & medium Business Corporation - Selected as outstanding company with the best working conditions
	2014. 11	Yong-In City - Certificates of Excellent enterprise selection
2015	2015. 12	Samcheok Meister high school - Certificate of Appreciation
2017	2017. 12	Youth Friendly Corporate Certificate - Ministry of Employment and Labor (MOEL)
2018	2018.01	Certificate of Membership - FieldComm Group
	2018.02	Sincere Taxpayer Certificate - Yongin City



Experience



section
Experience

03

Experience List

CHEMICAL

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
001	STAVROLEN PE	TOYO ENG.KOREA	LUKOIL	RISSIA	2017	OF/VT/RO
002	Lotte EG Feed Project	SAMSUNG Engineering	LOTTE CHEMICAL	U.A.E	2017	PG/TG
003	KPIC ONE PROJECT	GS E & C	KPIC	KOREA	2017	PG/TE
004	TE-3	GS E & C	LOTTE CHEMICAL	MALAYSIA	2016	OF/VT
005	CDP 3	SK CHEMICAL	SK CHEMICAL	KOREA	2016	RO/LG
006	YMDI VIII	POSCO ENG.	Kumho Mitsui Chemical	KOREA	2016	OF/RO
007	BTX DBNK	OCI	OCI	KOREA	2016	LG
008	Iraq ZUBAIR Project	SAMSUNG Engineering	ENI	IRAQ	2016	PG/TG
009	CDP-3 PROJECT	SK Chemicals	SK Chemicals	KOREA	2016	PG /TG/ TE
010	Basf Expansion Ultrason Capacity Yeosu Project	GS E & C	BASF	KOREA	2016	PG /TG/ TE
011	YNCC C5 SEPARATION PROJECT	HANWHA E & C	YNCC	KOREA	2015	PG /TG/ TE
012	KPA IV PROJECT	POSCO Engineering	POSCO Engineering	KOREA	2015	TG/ TE
013	PB2 75,000MTA REVAMPING PROJECT	DAELIM INDUSTRIAL	PETROCHEMICAL DIVISION OF DAELIM	KOREA	2015	PG /TG/ TE
014	ETHANE CRACKER AND PE/PP PLANT	PETRO-CHEM KOREA CO.,LTD.	Turkmengas state Concern	TURKMENISTAN	2015	TE
015	C5 SEPARATION	DAELIM/HANWHA	YNCC	KOREA	2015	OF/RO
016	CA5, OXY 5	ETEC	HANWHA CHEMICAL	KOREA	2015	OF/RO
017	EDISON II Project(HVAC)	SAMSUNG ENG.	SAMSUNG BIOLOGICS	KOREA	2014	PG/TG/TC/RTD/TW
018	Samsung Memc Ploysilicon -W-1 PROJECT	SAMSUNG ENG.	SAMSUNG C&T	KOREA	2014	P/G
019	UGCC Ethylene Plant Project	GS E & C	Akchalak	UZBEKISTAN	2014	P/G
020	Elastomer Project	DAELIM INDUSTRIAL	KEMYA	SAUDI ARABIA	2014	P/G
021	ESCONDIDA Main & Chemical dosing	DOOSAN HEAVY	BLACK & VEATCH	CHILE	2014	P/G
022	BUTANOL & SYNGAS	DAELIM INDUSTRIAL	BUTANOL COMPANY	SAUDI ARABIA	2014	TG/TC/RTD/TW
023	UGCC Ethylene Plant	GS E & C	Uz-kor Gas Chemical	UZBEKISTAN	2014	TG/TC/RTD/TW/MULTI
024	Linear Alkyl Benzene	HYUNDAI Engineering	Thaioil	THAILAND	2014	TG/TC/RTD/TW
025	ORANGE PROJECT	HANWHA E & C	HANWHA CHEMICAL	KOREA	2013	P/G
026	STC NO.2 Aromatics Complex	SAMSUNG ENG.	SAMSUNG TOTAL	KOREA	2013	PG/TG/TC/TW
027	JUBAIL POLYSILICON	HYUNDAI HEAVY	JUBAIL WATER & POWER COMPANY	SAUDI ARABIA	2013	P/G
028	Jurong Aromatics Complex	SK E & C	JAC	SINGAPORE	2013	TC/RTD/TW
029	SAMSUNG TOTAL NO.2 AROMATICS	JNK HEATER	SAMSUNG TOTAL	KOREA	2013	TC
030	YEP-IV	DAELIM INDUSTRIAL	KUMHO P&B	KOREA	2013	TG/RTD/TW
031	Yeosu ORANGE	HANWHA E & C	HANHWA CHEMICAL	KOREA	2013	TG/TC/TW
032	JUBAIL POLYSILICON	EMERSON	PTC	SAUDI ARABIA	2013	RTD/MULTI RTD/TW
033	RAS-AI-KHAIR	DOOSAN HEAVY	SWCC	SAUDI ARABIA	2013	TG/RTD/TW

CHEMICAL

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
034	Petron Bataan Refinery Master Plan2	DAELIM INDUSTRIAL	PETRON	PHILIPPINES	2013	TG/TC/RTD/MULTI TC/TW
035	STC No.3 Utility & Offsite	SAMSUNG ENG.	SAMSUNG TOTAL	KOREA	2013	TG/TC/TW
036	STC EVA No.2	SAMSUNG ENG.	SAMSUNG TOTAL	KOREA	2013	RTD/TW
037	PD-1	SCT	KOLON INDUSTRIES	KOREA	2013	TG/RTD/TW
038	Alkalij Project(No.2,3,4)	DOOSAN HEAVY	GECOL	LIBYA	2013	TG/TC/TW
039	STC EVA No.2 (Local Panel)	SAMSUNG ENG.	SAMSUNG TOTAL	KOREA	2013	CONTROL PANEL
040	SMP W-1	SAMSUNG ENG.	SMP	KOREA	2013	TG/TC/RTD/MULTI RTD/TW
041	EVA	LG TOYO ENG.	LG CHEM.	KOREA	2013	LG
042	VCM, 3MT DBN	LG CHEMICAL	LG CHEM.	KOREA	2013	LG/OF
043	EVA 2	SAMSUNG ENG.	SAMSUNG TOTAL	KOREA	2013	LG
044	SSBR	LG TOYO ENG.	LG CHEM.	KOREA	2013	LG
045	VGOFCC PROJECT	GS E & C	GS Caltex Corporation.	KOREA	2012	PG/DPG/TG/TC/TW/RTD/Multi TC/TW
046	EVA-PROJECT	HANWHA E&C	Sipchem-HCC	SAUDI ARABIA	2012	PG/SKIN TC/TC/TG/TW
047	Shiraz Third Ammonia & UREA Complex Project	SC ENGINEERING	-	IRAN	2012	PG/TG/RTD/TC/TW
048	NAPHTHA CRACKER PROJECT	DAELIM INDUSTRIAL	JG Summit Petrochemical Co.	PHILIPPINES	2012	PG/TG/RTD/TC/TW
049	SADARA MIXED FEED CRACKER PROJECT	JNK HEATERS	AOC and DOW EUROPE HOLDING	SAUDI ARABIA	2012	SONIC NOZZLE
050	ORANGE POLYSILICON	HANWHA E&C	HANWHA CHEMICAL	KOREA	2012	ORIFICE
051	REPLACEMENT	GI	BASF KOREA	KOREA	2012	V CONE
052	2D-PROJECT	HYUNDAI HEAVY	DEASAN MMA Corporation	KOREA	2012	Multi RTD/RTD/TC/TW
053	P3.5 PROJECT	OCI	OCI Company Ltd.	KOREA	2011	PG/PS/TG/TC/RTD/TW
054	P3.7 PROJECT	OCI	OCI Company Ltd.	KOREA	2011	PG/TG/TC/TW
055	U1 PROJECT	KCC	KCC	KOREA	2011	PG/PS
056	KPA-2 PROJECT	KOLON PLASTICS	KOLON PLASTICS, INC	KOREA	2011	PG/TG/RTD/TC/TW
057	KPA II REVAMP	DAEWOO E&C	KUMHO P&B	KOREA	2011	ORIFICE
058	AMMONIA UNLOADING STORAGE AND DISTRIBUTION SYSTEM	DOOSAN HEAVY	SNC LAVALIN,	CANADA	2010	PG/TG/TC/TW
059	HOU PROJECT	HYUNDAI HEAVY	HYUNDAI OIL BANK	KOREA	2010	PG/TG/TW
060	YDR Project	KUMHO PETROCHEMICAL	KUMHO PETROCHEMICAL	KOREA	2010	LG
061	SP-1	WOONGJIN POLYSILICON	WOONGJIN POLYSILICON	KOREA	2010	LG
062	NO.3 HOU PROJECT	GS CALTEX	KOREA	KOREA	2009	PG/TG/TC/TW
063	SAUDI KAYAN HDPE PROJECT	DAELIM INDUSTRIAL	SAUDI KAYAN PETROCHEMICAL COMPANY	SAUDI ARABIA	2009	PG/TG/TC/TW/RTD
064	AAC ETHYLENE AMINES PROJECT	HYUNDAI HEAVY	ARABIAN AMINES	SAUDI ARABIA	2009	PG/TG/TC/TW/RTD
065	POLYCARBONATE PROJECT	DAELIM INDUSTRIAL	SAUDI KAYAN PETROCHEMICAL COMPANY	SAUDI ARABIA	2008	PG/TG/TC/TW/RTD
066	SOHAR AROMATICS PROJECT	GS E & C	AROMATICS OMAN LLC	OMAN	2008	PG/TG/TW
067	PG REVAMP	SKEC	SKC	KOREA	2008	ORIFICE/LEVEL GAUGE
068	LGPC B2	GS E&C	LGPC	KOREA	2008	LEVEL GAUGE/SIGHT GLASS
069	GDC	DAEWOO E&C	GREENSOFT CHEM	KOREA	2008	LEVEL GAUGE
070	MEX	KP CHEMICAL	KP CHEMICAL	KOREA	2007	ORIFICE/LEVEL GAUGE
071	HPPO	SKEC	SKC	KOREA	2007	ORIFICE/LEVEL GAUGE
072	EDC CAPA-UP	HAN WHA E&C	HAN WHA CHEMICAL	KOREA	2007	ORIFICE
073	SILICONE NO.2 PROJECT	KCC	KCC	KOREA	2006	PG/TG/RTD/TW
074	HOU PROJECT	GS E & C	GS GALTEX	KOREA	2006	TG/TC/TW

CHEMICAL

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
075	TDI PLANT	GS E & C	BASF	CHINA	2005	PG/TG
076	S-PROJECT	DAEWOO E & C	SODIFF	KOREA	2005	ORIFICE
077	EB REVAMP	SKEC	SKC	KOREA	2005	ORIFICE
078	ABS III-2	GS E & C	NINGBO LG PETROCHEMICAL	CHINA	2003	PG/RTD
079	PTA CO REMOVAL	DOOSAN HEAVY	NIOC	IRAN	2001	P/G

GAS

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
080	Kandym Gas Processing Complex	HYUNDAI Engineering	LUOC	UZBEKISTAN	2016	PG/TG
081	BORYEONG LNG TERMINAL	SK E & C	BORYEONG LNG TERMINAL	KOREA	2015	PG
082	BORYEONG LNG TERMINAL	SK E & C	BORYEONG LNG TERMINAL	KOREA	2015	OF/RO/VT
083	MGP PJT	HYUNDAI Engineering	OOCEP	OMAN	2015	TG
084	HOUT	DAEWOO E & C	KJO	SAUDI ARABIA	2014	OF/RO
085	North LPG Tank Farm	GS E&C	KNPC	KUWAIT	2013	RTD/MULTI RTD/TW
086	Musandam Gas Plant	HYUANDAI ENG	Oman Oil Company Exploration & Production LLC	OMAN	2013	TG/TW
087	North LPG Tank Farm Project	GS E&C	KNPC	KUWAIT	2013	TG/TW
088	ZUBAIR OIL FIELD DEVELOPMENT	STX Heavy Industries	ENI IRAQ B.V.	IRAQ	2013	OF
089	SOUTH PARS 9&10	SUNGJIN GOTECH	POGC	IRAN	2012	ORIFICE
090	OFFSHORE ASSOCIATED GASES	Hitachi Plant Technologies Tokyo, Japan	GASCO	JAPAN	2008	VENTURI TUBE

IRON

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
091	Brasil CSP BF Instrument 2	POSCO E & C	POSCO	BRASIL	2014	TG/TC/RTD/TW
092	ACL,CAL	POSCO E & C	POSCO INDIA	INDIA	2012	ORIFICE
093	CDQ 3&4	POSCON	POSCO	KOREA	2002	ORIFICE/VENTURI

OFFSHORE

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
094	BARONIA	HHI	PETRONAS	MALAYSIA	2016	SG
095	TOD CHEVRON DRILLSHIP, 3511	DSME	TRANSOCEAN	KOREA	2015	RO

OIL & GAS

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
096	Carbon Black & Delayed Coker	SAMSUNG ENG.	TAKREER / ABU DHABI	UAE	2014	P/G
097	EPC CPF PHASE 2 AT BADRA OILFIELD	SAMSUNG ENG.	Gazprom Neft Badra B.V.	IRAQ	2014	P/G
098	IRAQ DGS PROJECT	STX HEAVY	Electricity State Commission	IRAQ	2014	P/G
099	KNPC TGTU PROJECT	SAMSUNG C & T	KNPC	KUWAIT	2014	P/G
100	SK-V	HYUNDAI HEAVY	SK ENERGY	KOREA	2013	P/G
101	CILACAP RFCC (RESIDUAL FLUID CATALYTIC CRACKING)		PT.PERTAMINA(PERSERO)	INDONESIA	2013	P/G
102	RMP-2 PJT(REFINERY MASTER PLAN2)	DAELIM INDUSTRIAL	Petron Corporation	PHILIPPINES	2013	P/G
103	SOUTH PAR PROJECT	DAELIM INDUSTRIAL	NATIONAL IRANIAN OIL COMPANY	IRAN	2012	PG/TG/RTD/TW/MULTI TC
104	LNG PLANT R&D CENTER PROJECT	GS E & C	LNG PLANT R&D CENTER	KOREA	2012	PG/TG/TW/ORIFICE PLATE
105	ESMERALDAS REFINERY REHABILITATION PROJECT	SK E&C	PETRO ECUADOR	ECUADOR	2012	P/G
106	INTER REFINERIES PIPELINES-II (IRP-II) PROJECT	GS E & C	TAKREER / ABU DHABI	UAE	2012	PG/TG/TW
107	LPG TRAIN PJT AT MAA	DAELIM INDUSTRIAL	KNPC	KUWAIT	2012	PG/TG/RTD/TC/TW
108	SPGD 12 / EPC 2 (SOUTH PAR)	DAELIM INDUSTRIAL	PARS OIL AND GAS COMPANY	IRAN	2012	PG/TG/RTD/TC/TW
109	IRAN LNG PROJECT	DAELIM INDUSTRIAL	IRAN LNG COMPANY	IRAN	2010	T/C
110	NCP SOUTH PLOT PROJECT	DAELIM INDUSTRIAL	SAUDI POLYMER	SAUDI ARABIA	2010	PG/TG/TC/TW
111	MANZANILLO LNG TERMINAL PROJECT	SAMSUNG ENG.	TERMINAL KMS DE GNL, S. DE R.L. DE C.V.	MEXICO	2010	PG/TG/TC/TW
112	GREEN DIESEL PROJECT	GS E & C	ABUDABI OIL REFINERY	U.A.E	2010	PG/TG/TC/TW
113	GREEN DIESEL PROJECT	GS CALTEX	ABUDABI OIL REFINERY	U.A.E	2009	PG/TG/TW
114	NCP SOUTH PLOT PROJECT	DAELIM INDUSTRIAL	SAUDI POLYMER	SAUDI ARABIA	2010	PG/TG/TC/TW
115	9TH CRUDE OIL PROJECT	DAELIM INDUSTRIAL	KOC	KUWAIT	2008	PG/TG/TW
116	LIDONG AROMATICS COMPLEX PROJECT	GS E & C	LIDONG CHEMICAL	CHINA	2006	P/G
117	KIRIKKALE DHP-CCR PROJECT	GS E & C	KIRIKKALE	TURKEY	2006	PG/TG/RTD
118	ARAMCO THIRD PARTY PROJECT	HYUNDAI HEAVY	ARAMCO	SAUDI ARABIA	2006	PG/TG/TC/TW
119	EFFLUENT WATER DISPOSAL PLANT	DAELIM INDUSTRIAL	KOC	KUWAIT	2005	PG/TG/RTD
120	IZMIT REFINERY DIESEL/KEROSENE HYDROPROCESSING	HANSU	TUPRAS	TURKEY	2005	PG/TG/TC/TW
121	MAA RECONSTRUCTION	SK E&C	KNPC	KUWAIT	2003	PG/TG
122	NEW OIL PIER	HYUNDAI HEAVY	KNPC	KUWAIT	2002	P/G

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
123	SHINKORI #5,6, NPP	KHNP	KHNP	KOREA	2019	OP/LG
124	SHINKORI #5,6, NPP	KHNP	KHNP	KOREA	2019	PT/UF
125	SHINSEOCHÉON THERMAL PP, 1x1018MW	DAELIM	KOREA MIDLAND POWER	KOREA	2018	OF/NZ
126	JIMAH EAST POWER 2x1000MW COAL FIRED POWER PLANT	HYUNDAI Engineering	Jimah East Power	MALAYSIA	2017	PG/TG
127	KALSEL-1 COAL FIRED POWER PLANT PROJECT	HYUNDAI Engineering	Tanjung Power Indonesia	INDONESIA	2017	PG/TG
128	SONG HAU-1 Project	DOOSAN HEAVY	Petro Vietnam	VIETNAM	2017	PG/TG

Experience List

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
129	ASSUIT HRSG	DOOSAN E & C	GE ENERGY	EYGPT	2017	PG/TG/TE
130	Mega CCPP Plant(1600MW) NAAMA	SAMSUNG C & T	SONELGAZ SPE	ALGERIA	2017	PG/TG/TE
131	JEJU Combined Cycle Power Plant FIELD INSTRUMENT	DOOSAN E & C	KOMIPO	KOREA	2017	PG/TG/TE
132	NAAMA/MOSTAGHANEM HRSG	BHI	SONELGAZ	ALGERIA	2017	DRUM LG/LG
133	SBPL CFPP, 500MW	DAELIM	SBPL	PHILIPPINE	2017	OF/NZ/RO
134	JEJU CCPP, 2 x HRSG	GEPSK	KOREA MIDLAND POWER	KOREA	2017	OF/NZ
135	POSEUNG BIOMASS COGENERATION	DAELIM	POSUENG GREEN POWER	KOREA	2017	OF/RO/VT/VC/LG
136	TVEP PROJECT	HYUNDAI Engineering	Therma Visayas, Inc.,	PHILLIPPINES	2016	PG/TG
137	LVSF PROJECT	HYUNDAI Engineering	LOTTE VERSALIS ELASTOMERS CORP.	KOREA	2016	PG/TG
138	YANBU PHASE 3 POWER PLANT	SAMSUNG Engineering	SWCC	SAUDI ARABIA	2016	PG/TG/TE
139	Mega CCPP Plant(1600MW) NAAMA	BHI	SONELGAZ SPE	ALGERIA	2016	PG/TG/TE
140	PACO Coal Fired Power Plant Project	SK E & C	MINERA PANAMA S.A	PANAMA	2016	PG/TG/TW
141	Facility D IWPP	SAMSUNG C & T	Umm Al Houl Power	QATAR	2016	PG/TG/TE
142	BANPONG UTILITIES SPP PROJECT	Integrated system Provider for Electric & Control	EGCO	THAILAND	2016	PG/TG/TE
143	SAFI IPP, 693MWx2	DAEWOO E & C	SAFI ENERGY	MOROCCO	2016	OF/NZ/LG/RO
144	PIEM BOILER, 360MWx1	DHI	IEM S.A.	CHILE	2016	OF/NZ/SG
145	KIRIKKALE IPP, 950MW	SAMSUNG C & T	ACWA POWER	TURKEY	2016	OF/PT
146	KARABATAN CCPP	DOOSAN	Karabatan Utility Solutions Limited Liability Partnership	KAZAKHSTAN	2016	OF/NZ
147	CHUNCHEON CHP, 1x HRSG	BHI	CHUNCHEON ENERGY	KOREA	2016	LG
148	Qatar Facility D IWPP, 2400MW	HHI	Qatar General Electricity & Water Corporation	QATAR	2016	FS
149	KIRIKKALE IPP, 950MW	SAMSUNG C & T	ACWA POWER	TURKEY	2016	OF/PT
150	JJP BIOMASS STG 2	BHI	JJP	KOREA	2016	DRUM LG
151	IGD-E ONSHORE PIPELINE & HABSHAN MODIFICATION	HANSOL SEENTEC	GASCO	UAE	2016	OF/NZ
152	Qatar Facility D IWPP, 2400MW	SAMSUNG C & T	Qatar General Electricity & Water Corporation	QATAR	2016	OF/NZ/PT/RO/VC
153	WEST DAMIETTA, 4x125MW	DOOSAN	GE/Egyptian Electricity Holding Company	EGYPT	2016	OF/NZ
154	CHILE KELAR Project	SAMSUNG Engineering	BILLITON	CHILE	2015	PG/TG
155	KHABAT Thermal Power Plant FGD	STX Co.,Ltd.,	KOGAS AKKAS B.V	IRAQ	2015	PG
156	SHUQAIQ STEAM POWER PLANT	HYUNDAI HEAVY	SEC	SAUDI ARABIA	2015	PG/TG/TE
157	PAGBILAO 420MW #3 CFPP PROJECT	DAELIM INDUSTRIAL	PAGBILAO ENERGY	PHILLIPPINES	2015	PG/TG
158	MALAYSIA TNB FAST TRACK 3A PROJECT (BOP)	DAELIM INDUSTRIAL	TNB	MALAYSIA	2015	PG/TG
159	SHUQAIQ SPP	HHI	SEC	SAUDI ARABIA	2014	ORIFICE
160	TUNG HSIAO HRSG #6	DOOSAN	MHPS	TAIWAN	2015	OF/NZ
161	KHABAT THERMAL POWER, 1&2	BHI/POSCO E&C	MOE	KURDISTAN	2015	NZ/DRUM LG/LG

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
162	RABIGH II IPP	BHI/SC&T	ALMOURJAN	SAUDI ARABIA	2015	OF/NZ/RO
163	KUMHO CHP S1	SC&T	KUMHO PETROCHEMICAL	KOREA	2015	OF/RO/LG/VC
164	PACO POWER 160MW	SKEC	MPSA	PANAMA	2015	OF/NZ/RO/LG/SG
165	SEOUL CCPP 400MWx2	DHI	KOREA MIDLAND POWER	KOREA	2015	NZ/VT
166	POCHEON LNG CCPP(1600MW)	DAEWOO E&C	DAEWOO ENERGY	KOREA	2015	OF/NZ/RO/LG/SG
167	HDO NEW FBC BOILER #10	HHI	HDO	KOREA	2015	OF/NZ
168	VINH TAN 4	DHI	EVN	VIETNAM	2015	ORIFICE/LG
169	JEDDAH SOUTH THERMAL POWER PLANT STAGE I	HHI	SEC	SAUDI ARABIA	2015	LG
170	SAFI IPP, 693MWx2	DAEWOO E&C	SAFI ENERGY	MOROCCO	2015	OF/NZ/LG/RO
171	Jeddah South Thermal Power Plant Project	HYUNDAI HEAVY	SEC(Saudi Electricity Company)	SAUDI ARABIA	2014	PG/FI/FS/VC
172	SHUQAIQ SPP EPC PJT	HYUNDAI HEAVY	SEC(Saudi Electricity Company)	SAUDI ARABIA	2014	P/G
173	IGCC(Integrated Gasification Combined Cycle)	DOOSAN HEAVY	KOREA WESTERN POWER	KOREA	2014	P/G
174	Dangjin Thermal Power Plant Unit 9&10	DAELIM INDUSTRIAL	Korea East-West Power Co., Ltd	KOREA	2014	TG/TC/RTD/TW/Metal TC
175	Mexico Interger SLP Project	SAMSUNG ENG.	Energia San Luis de la Paz, S.A. de C.V	MEXICO	2014	TG/TC/RTD/TW
176	AZ ZOUR NOTRH IWPP(1500MW)	HHI	PTB	KUWAIT	2014	ORIFICE/NZ/FI/FS/LS/LT/LG
177	ICHTHYS LNG CCPP(5xHRSG)	S&TC	CH2M Hill - UGL JV and GE consortium	AUSTRALIA	2014	OF/NZ/VT/DRUM LG
178	DANGJIN TPP 9&10 1000MWx2	DAELIM INDUSTRIAL	KOREA EAST-WEST POWER	KOREA	2014	OF/NZ
179	HANAM CHPP HRSGx1	DHI	KEPCO	KOREA	2014	OF/NZ
180	Samcheok Green Power Plant Unit 1,2 / HDE	HDEC	KOREA SOUTHERN POWER	KOREA	2014	FI/FS
181	PRAI HRSG	DOOSAN	TNB NORTHERN ENERGY	MALAYSIA	2014	OF/NZ
182	SM 200 PHASE I	DAELIM INDUSTRIAL	SARANGANI ENERGY	PHILIPPINE	2014	OF/LG/SG
183	THAI BINH II TPP(2x600MW)	DAELIM INDUSTRIAL	PETRO VIETNAM	VIETNAM	2014	LG/SG/OF/LG/FI
184	BUK PYEONG TPP 1,2(595MWx2)	BHI	KOREA EAST-WEST POWER	KOREA	2014	NZ/LG
185	Ras Djinet CCPP, 400MWx3	DAEWOO E&C	SPE	ALGERIA	2014	OF/NZ/RO/LG/SG
186	SHUQAIQ SPP	S&TC	HHI/SEC	SAUDI ARABIA	2014	LG
187	TAEAN IGCC ASU	DHI	KOREA WESTERN POWER	KOREA	2014	OF/VT
188	SAEMANGUM , 151.5MWx2	DHI	OCISE	KOREA	2014	DRUM LEVEL GAUGE/NZ/OF/VC
189	JEDDAH SOUTH THERMAL POWER PLANT STAGE I	S&TC	HHI/PTB	KUWAIT	2014	LG
190	WONJU RDF(Refuse Derived Fuel)	SEENTEC	KOREA MIDLAND POWER	KOREA	2014	DRUM LEVEL GAUGE
191	PRAI CCGT	SAMSUNG C&T	TNB NORTHERN ENERGY	MALAYSIA	2014	OF/RO
192	TNB FAST TRACK 3A	DAELIM E&C	TNB NORTHERN ENERGY	MALAYSIA	2014	NZ/SG
193	TAEAN THERMAL POWER PLANT #9/10	S&TC	KOREA WESTERN POWER	KOREA	2014	OF/LG
194	MONG DUONG II 2*560MW(NET) COAL FIRED POWER	DOOSAN HEAVY	AES-VCM MONZUON	VIETNAM	2013	PG
195	DANG JIN Thermal Power Plant #5-6	DAEWOO E&C	HYUNDAI GREEN POWER	KOREA	2013	TG/TC/RTD
196	Tufanbeyli Thermal Power Plant	HYUNDAI HEAVY	ENERJI SA	TURKEY	2013	TC/RTD/TW
197	RABIGH POWER PLANT	DOOSAN HEAVY	SEC	SAUDI ARABIA	2013	TC/RTD/TW
198	MONG DUONG Boiler	DOOSAN HEAVY	AES-VCM MONG DUONG POWER COMPANY	VIETNAM	2013	TG/TC/TW
199	YANBU II POWER&WATER	DOOSAN HEAVY	MARAFIQ	SAUDI ARABIA	2013	TG/TC/TW
200	YANBU II PKG1 Power and Water	HANWHA E&C	MARAFIQ	SAUDI ARABIA	2013	TG/TC/TW
201	YULCHON CCPP	SEDAE ENERTECH	YULCHON MPC	KOREA	2013	TG/TC/TW
202	GE3	HYUNDAI HEAVY	SK E&C	KOREA	2013	TG/TC/RTD/TW

Experience List

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
203	MONG DUONG BOP No.1&2	DOOSAN HEAVY	AES-VCM MONG DUONG POWER COMPANY	BIETNAM	2013	TG/TC/RTD/TW
204	Fertil-2	KOREA YOKOGAWA	Ruwais Fertilizer Industry	UAE	2013	TC/RTD/MULTI TC/TW
205	YANBU PHASE-3	DOOSAN HEAVY	MARAFIQ	SAUDI ARABIA	2013	TW
206	ULSAN #4 CCPP	DAELIM INDUSTRIAL	EWP	KOREA	2013	TG/TC/TW
207	NEW FBC BOILER #9	HYUNDAI HEAVY	HYUNDAI OIL BANK	KOREA	2013	TG/TC/RTD/MULTI TC/TW
208	The 2nd Pyeongtaek CCPP	DAELIM INDUSTRIAL	EWP	KOREA	2013	TG/TC/TW
209	BRAKA NUCLEAR PP	KEPCO/HHI	UAE Nuclear Energy	UAE	2013,2012	ORIFICE/LG
210	SINULJIN #1,2 NUCLEAR PP	KHNP	KHNP	KOREA	2013	ORIFICE/LG
211	TAEAN IGCC	DHI/GS E & C	KOREA WESTERN POWER	KOREA	2013	OF/VT/RO/LG/SG
212	SHOAIBA II CCPP	DAELIM E & C	SEC	SAUDI ARABIA	2013	OF/VT/RO
213	UTE BAIXADA FLUMINENSE STAG 207FA 04 MS CCCP	HANGZHOU BOILER	GE	MEXICO	2013	OF/NZ
214	KUDGI STPP 3X800MW	DOOSAN HEAVY	NTPC	INDIA	2013	NZ
215	TRIPOLI WEST 4x350MW POWER PLANT	BHI	GECOL	LIBYA	2013	LG
216	POSCOENERGY COMBINED CYCLE POWER PLANT UNIT 7,8&9	BHI	POSCO ENERGY	KOREA	2013	DRUM LEVEL GAUGE
217	ANDONG CCPP	SIEMENS KOREA	KOREA SOUTH POWER	KOREA	2013	OF
218	RAS AZ ZAWR POWER AND DESALINATION PLANT PROJECT	DOOSAN HEAVY	SALINE WATER CONVERSION CORPORATION	SAUDI ARABIA	2012,2011	PG/DPG/TG/TC/TW
219	Ruwais Refinery Expansion Project PROJECT	GS E & C	TAKREER / ABU DHABI OIL REFINING COMPANY	UAE	2012	PG/DPG/RTD/TG/TC/Sun Shade/ Multi TC/ Skin TC/TW
220	RABIGH POWER PLANT PROJECT	DOOSAN HEAVY	SALINE WATER CONVERSION CORPORATION	SAUDI ARABIA	2012	PG/TG/RTD/TC/TW/LT/OP/LG/LS
221	El Ain El Sokhna Supercritical Thermal Power Plant PROJECT	DOOSAN HEAVY	PGESCO	EGYPT	2012	PG/TG/TC/TW
222	New Haripur CC Power Plant PROJECT	DOOSAN HEAVY	EGCB	BANGLADESH	2012	PG/TG/TC/TW
223	2x60MW MERAK CFPP PROJECT	POSCO	MERAK ENERGY	INDONESIA	2012	PG/TG/TC/TW/RTD/OF/NZ/RO
224	RABIGH POWER PLANT NO.2(2400MW)	DOOSAN HEAVY	SEC	SAUDI ARABIA	2012	ORIFICE/NOZZLE/LG/LS/LT
225	RABIGH POWER PLANT NO.2	TORISHIMA PUMP	DHI/SEC	SAUDI ARABIA	2012	V CONE
226	1200 MW DGEN MEGA POWER	DHI	TORRENT ENERGY	INDIA	2012	ORIFICE/NOZZLE
227	2X685 MW THERMAL POWER RAIPUR	DHI	GMR	INDIA	2012	ORIFICE/NOZZLE
228	MERAK CFPP	POSCO E & C	MERAK ENERGY	INDONESIA	2012	ORIFICE/NOZZLE/VT
229	POCHEON LNG PP(1600MW)	BHI	POCHEON ENERGY	KOREA	2012	ORIFICE/NOZZLE
230	YANBU 2 POWER & WATER(690MW)	HANWHA E & C	MARAFIQ	SAUDI ARABIA	2012	ORIFICE/NOZZLE/SG/V-CONE/TG/TC/TW
231	YANBU 2 POWER & WATER(690MW)	DOOSAN HEAVY	MARAFIQ	SAUDI ARABIA	2012	TG/TC/TW
232	BUGOK 3 CCPP	BHI	SIEMENS	KOREA	2012	DRUM LEVEL GAUGE
233	MONG DUONG II(560MWx2)	DHI	AES-VCM	VIETNAM	2012	ORIFICE/NZ/LG
234	MONG DUONG II(560MWx2)	TORISHIMA PUMP	DHI/AES-VCM	VIETNAM	2012	V CONE
235	QURAYYAH IPP(1000MWx4)	BHI/Samsung C & T	Hajr for Electricity Production Company	SAUDI ARABIA	2012	ORIFICE/NZ/LG

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
236	TIHAMA EXPANSION II	HHI	TIHAMA POWER GENERATION	SAUDI ARABIA	2012	ORIFICE/LG
237	EMAL Smelter Phase II(1000MW)	BHI	EMAL	UAE	2012	ORIFICE/NZ/LG
238	Rabigh Power Plant Extension - Stage 6	DOOSAN HEAVY	Saudi Electricity Co	SAUDI ARABIA	2011	PG/TG/TW
239	Ruwais Refinery Expansion Project PKG 1	SK E & C	Abu Dhabi Oil Refining Co.	UAE	2011	PG/PS/TG/TC/RTD/TW
240	RIYADH PP11 IPP PROJECT	HYUNDAI HEAVY	DHURUMA ELECTRICITY COMPANY	SAUDI ARABIA	2011	PG/DPG/TG/TW/RTD/TC
241	MARAFIQ Steam Turbine Generator units 5&6 PROJECT	HANWHA E & C	MARAFIQ	SAUDI ARABIA	2011	PG/TG/TS/RTD/TC/TW/IFE/NOZZLE/SG
242	OMAN BARKA 3 IPP (EARLY POWER)	GS E & C	SAOC	OMAN	2011	PG/DPG/TG/TW
243	OMAN SOHAR 2 IPP (EARLY POWER)	GS E & C	SAOC	OMAN	2011	PG/DPG/TG/TW
244	GENAVEH COMBINED CYCLE POWER PLANT	DOOSAN HEAVY	MAPNA GENAVEH POWER GENERATION Co.	IRAN	2011	PG/PS/TG/TS/TW
245	OSEONG HRSG PROJECT	DOOSAN HEAVY	General Electric International, Inc.	KOREA	2011	PG/DPG/TG/TC/FLOW NOZZLE/ORIFICE ASS'Y
246	Chilca Uno Power Station Combined Cycle PROJECT	POSCO	Enersur S.A	PERU	2011	PG/TG/TC/RTD/TW/SKIN TC/SG/OF/NT
247	Barka 3 Independent Power Plant PROJECT	DOOSAN HEAVY	AL SUWADI POWER COMPANY	OMAN	2011	PG/TG/RTD/TC/TW
248	MARAFIQ BOILER#5,6 PJT	DOOSAN HEAVY	MARAFIQ	SAUDI ARABIA	2011	RTD/TC/TG/TW
249	KALLPA 830MW CCCP	BHI	KALLPA BENERACION S.A.	PERU	2011	ORIFICE/NOZZLE
250	RIYADH P11 IPP	DECATEC	SEC	SAUDI ARABIA	2011	LG
251	CHILCAUNO CCPP	POSCO E & C	ENERSUR S.A	PERU	2011	ORIFICE/NOZZLE/SG
252	OSEONG HRSG	DHI & SKEC	GE	KOREA	2011	ORIFICE/NOZZLE
253	HSINTA POWER STATION PROJECT	DOOSAN HEAVY	TAIWAN POWER	TAIWAN	2010	PG/TG/TC/TW
254	AL-KHALIJ PROJECT	HYUNDAI HEAVY	GENERAL ELECTRIC CO	LIBYA	2010	PG/TG/TC/TW
255	AL DUR PROJECT	HYUNDAI HEAVY	Al Dur Power and Water Company BSC	BAHRAIN	2010	PG/TG/TC/TW
256	SINWEOLSEONG NUCLEAR POWER	KHNP	KOREA HYDRO & NUCLEAR POWER	KOREA	2010	PG/TG/TW
257	INCHEON LPG BASE HEATPOWER CONTROL FACILITIES PROJECT	GS E & C	E1	KOREA	2010	PG/TG/TC/TW
258	GUNJANG GP	HAN WHA E & C	GUN JANG CO-GEN	KOREA	2010	ORIFICE/NOZZLE
259	GHECO ONE COAL FIRED POWER PLANT	DOOSAN HEAVY	GHECO ONE(SUEZ GROUP)	THAILAND	2010	ORIFICE/NOZZLE
260	RECONSTRUCTION OF KNPC FIRED HEATER	SK E & C	KNPC	KUWAIT	2009	PG/TG/TC/TW/RTD
261	AROMATICS COMPLEX PROJECT	SK E & C	KUWAIT AROMATICS COMPANY	KUWAIT	2009	PG/TG/TC/TW/RTD
262	CCPP PROJECT	GS CALTEX	YEREVAN THERMAL POWER PLANT	ARMENIA	2009	PG/TG/TC/TW/RTD
263	SONGDO COMBINED HEAT AND POWER PLANT	DAELIM E & C	INCHEON TOTAL ENERGY COMPANY	KOREA	2009	ORIFICE/NOZZLE
264	MA'ADEN PHOSPHATE POWER AND DESALINATION	HAN WHA E & C	MA'ADEN Phosphate Company.	SAUDI ARABIA	2009	ORIFICE/NOZZLE
265	Edwardsport IGCC	DOOSAN HEAVY	Duke Energy	U.S.A	2009	ORIFICE/NOZZLE
266	KOUDIET CCPP	DOOSAN HEAVY	SONELGAZ	ALGERIA	2009	ORIFICE/NOZZLE
267	CEBU COAL FIRED POWER PLANT	DOOSAN HEAVY	KSPC	PHILIPPINE	2009	ORIFICE/NOZZLE
268	AL-DUR IWPP	HYUNDAI HEAVY	Ministry of Finance	BAHRAIN	2009	LEVEL GAUGE
269	CIREBON COAL FIRED POWER PLANT	DOOSAN HEAVY	PT CEP	INDONESIA	2009	ORIFICE/NOZZLE
270	YOUNGWOL	SEEN TEC	KOSPO	KOREA	2009	DRUM LEVEL GAUGE
271	MARAFIQ HRSG PROJECT(#2,#3,#4)	DOOSAN HEAVY	JUBAIL WATER & POWER COMPANY	SAUDI ARABIA	2008	PG/TG/TC/TW/RTD
272	QATALUM BOP	DOOSAN HEAVY	GENERAL ELECTRONIC COMPANY	QATAR	2008	ORIFICE/NOZZLE
273	QATALUM HRSG	DOOSAN HEAVY	GENERAL ELECTRONIC COMPANY	QATAR	2008	ORIFICE/NOZZLE
274	SHUAIBA NORTH CO-GEN	HYUNDAI HEAVY	MEW	KUWAIT	2008	DRUM LEVEL GAUGE
275	SIPAT SUPER THERMAL POWER 3X660MW PROJECT	DOOSAN HEAVY	NATIONAL THERMAL POWER CORPORATION LTD.INDIA		2007	PG/TG/TC/TW

Experience List

POWER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
276	SHUAIBA MSF UNIT #9~#12	DOOSAN HEAVY	FICHTNER	SAUDI ARABIA	2007	PG/TG/TC/TW
277	SAHARA BASELL PDH-PP PROJECT	DAELIM INDUSTRIAL	SAHARA PETROCHEMICAL COMPANY	SAUDI ARABIA	2007	PG/TG/TC/TW
278	HA DONG #7/8 CON & HTR	DOOSAN HEAVY	HA DONG THERMAL POWER PLANT	KOREA	2007	LEVEL GAUGE
279	GUNJANG CO-GENERATION	HAN WHA E & C	GUN JANG CO-GEN	KOREA	2007	ORIFICE/NOZZLE
280	1100MW SUGEN CCPP	DOOSAN HEAVY	TORRENT POWER GENERATION LIIMITED	INDIA	2006	PG/TG/TW
281	SIPAT Super Thermal Power Project(STAGE-I 3x660MW)	DOOSAN HEAVY	National Thermal Power Corporation Ltd.	INDIA	2006	ORIFICE/NOZZLE
282	DANG JIN THERMAL POWER PLANT #7/8	DOOSAN HEAVY	KOMICO. CO. KR	KOREA	2006	ORIFICE/NOZZLE
283	TAEAN THERMAL POWER PLANT #7/8	DOOSAN HEAVY	KOMICO. CO. KR	KOREA	2006	ORIFICE/NOZZLE
284	ARAMCO THIRD PARTY POWER PLANT	HYUNDAI HEAVY	ARAMCO	SAUDI ARABIA	2005	PG/LG/TG/TC/TW
285	SHUAIBA SOUTH POWER GENERATION & WATER DISTILLATION	HANSU	MEW	KUWAIT	2005	PG/TG/TC/TW
286	RAS LAFFAN PH II HRSG PLANT	DOOSAN HEAVY	QATAR POWER COMPANY	QATAR	2005	PG/LEVEL GAUGE/TG/TC/TW
287	MAPNA HRSG	DOOSAN HEAVY	MAPNA	IRAN	2005	PG
288	ARAMCO THIRD PARTY COGENERATION PROGRAM	HYUNDAI HEAVY	TIHAMA POWER GENERATION	SAUDI ARABIA	2005	LEVEL GAUGE
289	RAS LAFFAN PH II QATAR POWER & WATER	HANSU CHEMICAL	DOOSAN HEAVY	QATAR	2005	LEVEL GAUGE
290	ZAIWA CCPP	DOOSAN HEAVY	General Electric Company of LIBYA	LIBYA	2005	ORIFICE/NOZZLE
291	RAS LAFFAN B IWPP	DOOSAN HEAVY	QATAR POWER COMPANY	QATAR	2005	PG/TG/TC/TW/ORIFICE ASS'Y/FLOW NOZZLE
292	PHUMY 2.1	DOOSAN HEAVY	MARUBENI	VIETNAM	2004	ORIFICE/NOZZLE
293	APPC PDH/ PP WHB	DOOSAN HEAVY	SEC	SAUDI ARABIA	2004	ORIFICE/NOZZLE
294	CICLO COMBINADO CAMPO DE GIBRALTAR	DOOSAN HEAVY	NUEVA GENERADORA Del Sur. S.A.	SPAIN	2003	ORIFICE/NOZZLE/VENTURI
295	CC PALOS de la Frontera	DOOSAN HEAVY	UNION FENOSA GENERACION. S.A.	SPAIN	2003	ORIFICE/NOZZLE/VENTURI
296	RAS LAFFAN HRSG	DOOSAN HEAVY	QATAR POWER COMPANY	QATAR	2002	PG
297	FARS HRSG	HYUNDAI HEAVY	POWER COMPANY	IRAN	2001	PG
298	CASTEJON HRSG	DOOSAN HEAVY	HYDROCANTABRICO	SPAIN	2001	ORIFICE/NOZZLE
299	YOUNGKWANG 5 & 6	KEPCO	YOUNGKWANG NUCLEAR POWER GENERATION	KOREA	2000,1999	ORIFICE/LEVEL GAUGE
300	DANG JIN T.P.P UNIT #4	KHIC	DANG JIN THERMAL POWER PLANT	KOREA	1999	ORIFICE
301	WOLSONG 1 & 2	KEPCO	WOLSONG NUCLEAR POWER GENERATION	KOREA	1998	LEVEL GAUGE

DESALINATION

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
302	DESALINATION PLANT	DAELIM INDUSTRIAL	SWCC	SAUDI ARABIA	2001	PG/TG/TC/TW

REFINERY

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
303	KNPC CLEAN FUELS PROJECT	HYUNDAI HEAVY	KNPC	KUWAIT	2017	PG/TG/TE/TW
304	S OIL RUC Project	DAELIM INDUSTRIAL	S-OIL	KOREA	2017	PG/TG/TE/TW
305	MX EPC PROJECT	HYUNDAI Engineering	Hyundai Oilbank	KOREA	2016	PG/TG
306	EPC CPF PHASE 2 AT BADRA OIL FIELD	SAMSUNG Engineering	GAZPROM Neft Badra BV	IRAQ	2016	PG/TG
307	KNPC CLEAN FUELS PROJECT	GS E & C	KNPC	KUWAIT	2016	PG/TG/TE/TW
308	BARDEGG-2 & BARONIA EOR DEVELOPMENT	FJORDS PROCESSING CO.,Ltd	PETRONAS	MALAYSIA	2015	PG/TG
309	KNPC CLEAN FUELS PROJECT	GS E & C	KNPC	KUWAIT	2015	PG/TG/TE/TW
310	SOHAR REFINERY IMPROVEMENT PROJECT	DAELIM INDUSTRIAL	ORPIC	OMAN	2015	PG/TG/TE
311	EMERSON - UHV PJT	EMERSON	IRPC	THAILAND	2015	TW
312	S-OIL SUPER PACKAGE#1	DAELIM INDUSTRIAL	S-OIL	KOREA	2015	PG/TG/TE
313	PAKISTAN ARL UPGRADATION	HYUNDAI Engineering	ATTOCK REFINERY LIMITED	PAKISTAN	2014	TG/TC/RTD/TW
314	ERC Refining	JNK Heater	Egyptian Refining	EGYPT	2014	SKIN TC
315	Oil Refinery Reconstruction	HYUNDAI Engineering	Turkmenbashi Oil Processing Complex	TURHMENISTAN	2014	TG/TC/RTD/TW
316	V-Project	SK E&C	SK INNOVATION	KOREA	2013	TG/TC/RTD/TW
317	V-Project	PETROCHEM KOREA	SKI	KOREA	2013	TC
318	RUWAIS REFINERY EXPANSION PKG 4	DAEWOO E&C	TAKREER	UAE	2012	SG
319	RUWAIS REFINERY EXPANSION PKG 7	GS E&C	TAKREER	UAE	2012	SG
320	VGO FCC	GS E&C	GS CALTEX	KOREA	2012	SG,LG
321	YANBU REFINERY PLANT PROJECT	DOOSAN HEAVY	ARAMCO	SAUDI ARABIA	2012	PG/TG/RTD/TC/TW
322	BS-132 PROJECT	SK E&C	KOC	KUWAIT	2012	PG/RTD/TG/TW
323	Ruwais 4th NGL Train Project	SK E&C	GASCO	U.A.E	2011	RTD/MULTI TC/TW
324	NEW BOOSTER STATION BS-132 & ENHANCEMENTS TO BS-131, NORTH KUWAIT	SK E&C	KUWAIT OIL COMPANY	KUWAIT	2011	RTD/TW
325	HABSHAN-5 UTILITIES & OFFSITES PROJECT	HYUNDAI HEAVY	GASCO	U.A.E	2011	RTD/TW
326	NO.4 DIESEL DEWAXING PROJECT	GS CALTEX	GS CALTEX	KOREA	2010	MULTI-THERMOCOUPLE
327	RRC UPGRADING PROJECT	DOOSAN HEAVY	RAYONG REFINERY PUBLIC CO.,LTD	THAILAND	2008	TC/TW/RTD
328	BTX PROJECT	DAELIM INDUSTRIAL	PETRON CORPORATION-REFINERY DIVISION	PHILIPPINES	2008	TG/TC/TW
329	IBN ZAHR PP-UTLITIES & OFFISITE PROJECT	DAELIM INDUSTRIAL	SAUDI EUROPEAN PETROCHEMICAL COMPANY	SAUDI ARABIA	2007	TG/TW
330	NO.6 MDU PROJECT	SK E&C	SK CORP	KOREA	2006	TG/TC/TW
331	FACILITY UPGRADE	SK E&C	KUWAIT OIL COMPANY	KUWAIT	2006	PG/TG/TC/TW
332	POCR UPGRADING EARLY PHASE	GE TECH	POCR	KAZAKHSTAN	2005	LG
333	SUPER PROJECT PKG 1	DAELIM	S-OIL	KOREA	2005	OF/RO
334	KARBALA REFINERY	HANSOL SEENTEC	SCOP	IRAQ	2005	OF/NZ
335	UPGRADING OF BOOSTER STATION	DAELIM INDUSTRIAL	KOC	KUWAIT	2005	TG/TC/TW
336	QP PROJECT	GS E & C	QATAR PETROLEUM	QATAR	2005	PG/TG
337	REFINERY EXPANSION	DOOSAN HEAVY	NODCO	IRAN	2001	R.T.D
338	GC-25 NEW GATHERING CENTRE	GS E & C	KUWAIT OIL COMPANY	KUWAIT	2001	TC

Experience List

TEXTILE

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
339	SPANDEX SV-9,10 PROJECT	HYOSUNG	HYOSUNG CORP.	VIETNAM	2015	TG/TE
340	SV 7&8	HYOSUNG	HYOSUNG CORP.	VIETNAM	2014	OF
341	SPANDEX SV5&6	HYOSUNG	HYOSUNG CORP.	VIETNAM	2013	ORIFICE
342	OPTICAL FILM	HYOSUNG	HYOSUNG CORP.	KOREA	2013	LG
343	SPANDEX SV3	HYOSUNG	HYOSUNG CORP.	VIETNAM	2010	ORIFICE
344	SPANDEX T3	HYOSUNG	HYOSUNG CORP.	TURKEY	2010	ORIFICE
345	SPANDEX SV4	HYOSUNG	HYOSUNG CORP.	VIETNAM	2010	ORIFICE
346	SPANDEX V2	HYOSUNG	HYOSUNG CORP.	VIETNAM	2009	ORIFICE
347	SPANDEX VI	HYOSUNG	HYOSUNG CORP.	VIETNAM	2008	ORIFICE
348	SPANDEX TI	HYOSUNG	HYOSUNG CORP.	TURKEY	2007	ORIFICE

TIRE

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
349	HKT Expansion	LOTTE E&C	HANKOOK TIRE	INDONESIA	2012	ORIFICE/LG

FERTILIZER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
350	Bolivia YPFB Ammonia/Urea Project	SAMSUNG Engineering	YPFB	BOLIVIA	2015	PG/TG
351	UMM WUAL PHOSPHATE PROJECT-AMMONIA PLANT	DAELIM INDUSTRIAL	MAADEN	SAUDI ARABIA	2015	PG/TG/TE
352	UMM WU'AL PHOSPHATED PROJECT(PHOSPHORIC ACID PLANT)	HANWHA E & C	MAADEN	SAUDI ARABIA	2015	PG/TG/TE

WATER

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
353	Asan New City public sewage treatment facility and reuse facility private investment business	SAMSUNG Engineering	ASANSI	KOREA	2018	PG
354	Samsung Engineering S3 Project Phase 3 Construction	SAMSUNG Engineering	SAMSUNG ELECTRONICS	KOREA	2017	PG/TG/TE
355	UMM AL HOUL IWPP	HHI	Qatar General Electricity & Water Corporation	QATAR	2016	FS
356	S3 Line Construction (Ph-1)	SAMSUNG Engineering	SAMSUNG ELECTRONICS	QATAR	2016	PG/TG/TE
357	RPLC DEEP CONVERSION	KOLON EENG	PDVSA	VENEZUELA	2015	OF/MEDGE
358	YANBU 3 DESALINATION	DHI	SWCC	SAUDI ARABIA	2014	OF/NZ/LG/PITOT/PG
359	ESCONDIDA WATER SUPPLY	DHI	BHP	CHILE	2014	LG/FI
360	WPMP (Wara Pressure Maintenance Pjt)	GS E & C	WPMP (Wara Pressure Maintenance Pjt)	KUWAIT	2013	P/G
361	RAS AL KHAIR	DHI	SWCC	SAUDI ARABIA	2012	ORIFICE/NOZZLE/FLANGE ASS'Y
362	WASTE WATER TREATMENT	JANGSUNG GUN	JANGSUNG GUN	KOREA	2012	V CONE
363	WATER TREMENT PACKAGE	SK E&C	KOC	KUWAIT	2006	P/G
364	SABIYA DESALINATION PLANTS	DOOSAN HEAVY	MEW	KUWAIT	2005	ORIFICE/PG
365	SABIYA DESALINATION PLANTS	HANSU	MEW	KUWAIT	2005	ORIFICE/PG/TG/TC/TW

FOOD

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
366	EDISON 3#	SAMSUNG Engineering	SAMSUNG BIOLOGICS	KOREA	2016	PG/TG

MACHINE INSTALL

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
367	KAK PROJECT	SC ENGINEERING	SUMITOMO SEIKA POLYMERS KOREA	KOREA	2016	PG/TG/TE

CONSTRUCTION

No.	PROJECT NAME	CUSTOMER	END USER	LOCATION	DATE DELIVERED	SCOPE OF SUPPLY
368	P-PROJECT	SAMSUNG Engineering	SAMSUNG ELECTRONICS	KOREA	2016	TE



A nighttime photograph of a city skyline across a body of water. A bridge is visible on the left, and the city lights are reflected in the water. A semi-transparent white box is overlaid on the right side of the image, containing the text 'section - 04' and 'Certificates'.

section -

Certificates

04

Certificate list

CERTIFICATE MARKING	CERTIFICATE NAME	ISSUE DATE	SCOPE OF CERTIFICATE	CERTIFIED BY
System Certificates				
	Quality Management System (ISO 9001 : 2015)	Aug. 27, 2018	Pressure Gauge, Switch, Transmitter, Temperature Gauge, Sensor, Switch, Transmitter, Level Gauge, Flow Element, Bellows	Korean Foundation for Quality
	Environment Management System (ISO 14001 : 2015)	Aug. 05, 2018	Pressure Gauge, Switch, Transmitter, Temperature Gauge, Sensor, Switch, Transmitter, Level Gauge, Flow Element, Bellows	Korean Foundation for Quality
	KEPIC Certificate - MN	Apr. 16, 2016	Class 1,2,3 Fabrication for Part & Appurtenances (Inclusion of Design Scope)	Korea Electric Association
	ASME Certificate mark with Designator "S", "U" & "PP"	Jul. 23, 2015	Flow Instrument	ASME
Pressure Instrument				
	KS Certificate (KS B 5305)	May. 24, 2012	Bourdon Tube Type Pressure Gauge	Korean Standards Association
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Jan. 08, 2019	SMART PRESSURE TRANSMITTER - [SMT2001]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Jan. 08, 2019	SMART PRESSURE TRANSMITTER - [SMT2002/3A]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Jan. 08, 2019	SMART PRESSURE TRANSMITTER - [SMT2002/3B]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Oct. 04, 2018	UHP TRANSMITTER - [PT850]	KTL
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T4 IP65)	Jan. 05, 2018	UHP Pressure Transmitter - [PT851]	KOSHA
	Explosion Proof Certificate - Type of protection (Ex nA IIC T6...T4 IP65)	Sep. 05, 2017	UHP Pressure Transmitter - [PT852]	KOSHA
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Jan. 18, 2012	Diff. Pressure switch [P991]	KOSHA
	Explosion Proof Certificate - Flame Proof (Ex d IIB+H2 T6)	Apr. 12, 2010	Pressure indicating switch [P990]	KOSHA
	Canadian registration number - Pressure equipment safety	May. 14, 2015	Pressure gauge [P229, P252, P257, P258, P721-1, P721-2] Pressure switch [P953-P2, P953-P3, P970]	ABSA
	Canadian registration number - Pressure equipment safety	Apr. 12, 2013	Pressure gauge [P252, P257, P359, P620, P711, P731] Accessories [A030, A040, A050, A070]	ABSA
	Canadian registration number - Pressure equipment safety	Apr. 11, 2012	Instrument valve - [A080]	ABSA
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)	Mar. 16, 2018	UHP Pressure Transmitter - [PT850]	NEPSI
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T4 Ga)	Mar. 16, 2018	UHP Pressure Transmitter - [PT851]	NEPSI
	Explosion Proof Certificate - Type of protection (Ex nA IIC T6...T4 Gc)	Mar. 16, 2018	UHP Pressure Transmitter - [PT852]	NEPSI
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)	Apr. 12, 2018	SMART PRESSURE TRANSMITTER - [SMT Series]	CML
	Explosion Proof Certificate - Flame Proof (Ex db IIC T4/T5/T6 Gb) Dust Ignition Proof (Ex tb IIIC T80°C/T90T°C/130°C Db)	Aug. 31, 2018	SMART PRESSURE TRANSMITTER - [SMT Series]	CML
Temperature Instrument				
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Oct. 28, 2014	Temperature sensor (Thermocouple & R.T.D) - [R Series : R121, R122, R221, R222]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Jul. 25, 2013	Multi-Point Temperature Sensor [R550]	KOSHA
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Jul. 25, 2013	Multi-Point Temperature Sensor [R560]	KGS
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP56)	May. 09, 2013	SPACE HEATER [H100]	KGS
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP56)	Dec. 25, 2012	Temperature sensor (Thermocouple & R.T.D) - [RL Type : R190]	KGS
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP67)	Aug. 01, 2012	Temperature sensor (Thermocouple & R.T.D) - [RC Type : R931, R932, R933, R934]	KGS

CERTIFICATE MARKING	CERTIFICATE NAME	ISSUE DATE	SCOPE OF CERTIFICATE	CERTIFIED BY
Temperature Instrument				
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Nov. 01, 2011	Temperature sensor (Thermocouple & R.T.D : Movable sheath type)- [RS Type : R921, R922]	KGS
	Explosion Proof Certificate - Flame Proof (Ex d IIB+H2 T6)	Jun. 07, 2011	Temperature indicating switch [T990]	KOSHA
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6)	May. 06, 2011	Temperature sensor (Thermocouple & R.T.D) - [ETR10 Series : R951, R952]	KOSHA
	Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6..T3 Ga/Gb)	Dec. 08, 2017	Temperature sensor (Thermocouple & R.T.D) - [R950(ETR10) Series]	DEKRA
	Explosion Proof Certificate - Increased Safety (ATEX Ex e IIC Gb)	Nov. 21, 2017	Coil end temperature detector and Bearing temperature sensor) - [R840 Series]	LCIE
	Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6...T3 Ga)	Aug. 31, 2017	Bearing Temperature sensor - [R840 Series]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)	Jul. 24, 2017	Temperature sensor (Thermocouple & R.T.D) - [ETR Series : R941, R942]	LCIE
	Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e IIC T6...T1 Gb)	Jun. 03, 2016	Temperature sensor R950 Series (Thermocouple & R.T.D) - [ETR10 Series]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof / Intrinsic Safety / Increased Safety / dust ignition proof - II (1)2G Ex d ia/ib [ia/ib] IIC T6 Gb - II 2G Ex d e IIC T6 Gb- - II 2D Ex tb IIIC T85 °C Db IP66/IP67	Nov. 27, 2015	Field Junction Box [B500 Series]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)	Dec. 07, 2015	ILLUMINATOR [A250]	Bureau Veritas
	Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e IIC Gb)	Oct. 25, 2013	Stator Winding R.T.D - [R810 Series : R811, R812, R813, R814, R815, R816, R817, R818]	Bureau Veritas
	Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6..T3 Ga)	Oct. 25, 2013	Stator Winding R.T.D - [R820 Series : R821, R822, R823, R824, R825, R826, R827, R828]	Bureau Veritas
	Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e II Gb)	Jan. 08, 2013	SPACE HEATER [H100]	Bureau Veritas
	Explosion Proof Certificate - Intrinsic Safety (IECEX Ex ia IIC T6..T3 Ga/Gb)	Dec. 08, 2017	Temperature sensor (Thermocouple & R.T.D) - [R950(ETR10) Series]	DEKRA
	Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC Gb)	Nov. 21, 2017	Coil end temperature detector and Bearing temperature sensor) - [R840 Series]	LCIE
	Explosion Proof Certificate - Intrinsic Safety (IECEX Ex ia IIC T6..T3 Ga)	Sep. 01, 2017	Bearing Temperature sensor - [R840 Series]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof (IECEX Ex d IIC T6 Gb)	Jul. 24, 2017	Temperature sensor (Thermocouple & R.T.D) - [ETR Series : R941, R942]	LCIE
	Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC T6...T1 Gb)	Jun. 06, 2016	Temperature sensor R950 Series (Thermocouple & R.T.D) - [ETR10 Series]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof (IECEX Ex d IIC T6 Gb)	Dec. 07, 2015	ILLUMINATOR [A250]	Bureau Veritas
	Explosion Proof Certificate - Flame Proof / Intrinsic Safety / Increased Safety / dust ignition proof - Ex d ia/ib [ia/ib] IIC T6 Gb - Ex d e IIC T6 Gb - Ex tb IIIC T85 °C Db IP66/IP67	Nov. 27, 2015	Field Junction Box [B500 Series]	Bureau Veritas
	Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC Gb)	Feb. 19, 2014	SPACE HEATER [H100]	Bureau Veritas
	Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC Gb)	Nov. 04, 2013	Stator Winding R.T.D - [R810 Series : R811, R812, R813, R814, R815, R816, R817, R818]	Bureau Veritas

CERTIFICATE MARKING	CERTIFICATE NAME	ISSUE DATE	SCOPE OF CERTIFICATE	CERTIFIED BY
Temperature Instrument				
	Explosion Proof Certificate - Intrinsic Safety (IECEx Ex ia IIC T6...T3 Ga)	Nov. 04, 2013	Stator Winding R.T.D - [R820 Series : R821, R822, R823, R824, R825, R826, R827, R828]	Bureau Veritas
	Canadian Registration Number - Pressure Equipment Safety	Jul. 30, 2013	Thermowell - [A600, A630, A631, A632, A610, A611, A612]	ABSA
	Explosion Proof Certificate - Intrinsic Safety / Increased Safety - R810(Ex e IIC Gb) - R820(Ex ia IIC T6...T3 Ga) - H100(Ex e IIC Gb)	Mar. 31, 2016	Stator Winding R.T.D - [R810, R820 Series] SPACE HEATER [H100]	TECHNO STANDARD
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Jun. 08, 2016	Explosion proof type Indicating Pressure Switch [P981, P982 Series]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Mar. 28, 2016	Head mounting type multi temperature transmitter [R911]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6)	Mar. 28, 2016	Head mounting type temperature transmitter (RTD Only) [R912]	KTL
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Mar. 23, 2016	Ultrasonic Gas Flow Meters [U111K]	KGS
	Explosion Proof Certificate - Flame Proof (Ex de IIC T6 IP67)	Apr. 07, 2016	Metallic protection tube Thermocouple and RTD [R960 Series]	KGS
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Apr. 07, 2016	Non-metallic protection tube thermocouple [R970 Series]	KGS
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T3)	Aug. 06, 2015	Stator Winding R.T.D - [R820 Series : R821, R822, R823, R824, R825, R826, R827, R828]	KGS
	Explosion Proof Certificate - Increased Safety (Ex e IIC T6...T1)	Apr. 24, 2015	Temperature sensor (Thermocouple & R.T.D) - [ETR10 Series]	KGS
	Explosion Proof Certificate - Increased Safety (Ex e IIC Gb)	Jan. 16, 2015	Stator Winding R.T.D - [R810 Series : R811, R812, R813, R814, R815, R816, R817, R818]	KGS
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T1 Ga/Gb)	Apr. 14, 2017	Temperature sensor (Thermocouple & R.T.D) - [R950(ETR10) Series]	NEPSI
	Explosion Proof Certificate - Increased Safety (Ex e IIC T6...T1 Gb)	Apr. 13, 2017	Temperature sensor (Thermocouple & R.T.D) - [R950(ETR10) Series]	NEPSI
Pressure and Temperature Instrument				
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6)	Jul. 03, 2017	Inductive Contacts Type Pressure Gauge [P500, P501, P502, P690, T500, T510 Series]	KOSHA
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Nov. 14, 2016	Pressure & Temperature Switch [953 Series : P953, P970, T953]	KTL
	Explosion Proof Certificate - Flame Proof (IECEx Ex d IIC T6 Gb)	Aug. 01, 2016	Pressure & Temperature Switch [953 Series : P953, P970, T953]	LCIE
	Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)	Jun. 15, 2016	Pressure & Temperature Switch [953 Series : P953, P970, T953]	LCIE
	Explosion Proof Certificate - Constructional Safety (ATEX Ex II GD c IIC TX)	Apr. 11, 2014	Pressure Gauge [P229, P252, P253, P257, P258, P259, P330, P335, P421, P422, P428, P429, P711, P712, P721, P722, P731, P732, P741, P742, P751, P752, P753, P754, P757, P771, P772, P810, P820, P830] Temperature Gauge [T110, T111, T112, T120, T140, T190, T191, T359, T210, T212, T219, T220, T222, T229, T230, T239, T250, T259]	Bureau Veritas
	Explosion Proof Certificate - Constructional Safety (ATEX Ex II GD c IIB TX)	May. 02, 2014	Pressure Gauge [P359] Temperature Gauge [T359]	Bureau Veritas
	3-A Symbol Certificate	Dec. 31, 2016	Sanitary pressure & Temperature gauges, Temperature sensor, Transmitters, Thermowell [P752S, P753S, P426, P427, T123, R231, R232, A603]	3-A Sanitary Standard, Inc.
	GOST-Pattern Approval	Feb. 27, 2015	Pressure Gauge [P229, P235, P252, P253, P257, P258, P259, P330, P359, P500, P590, P810] Pressure Gauge(Diaphragm type) [P421, P422, P428, P710, P720, P730, P740, P751, P752, P753, P754, P755, P756, P770] Differential Pressure Gauge [P620, P640, P660, P670, P680, P690] Temperature Gauge(T100) [T110, T120, T140, T190, T191]	ROSSTANDARD

CERTIFICATE MARKING	CERTIFICATE NAME	ISSUE DATE	SCOPE OF CERTIFICATE	CERTIFIED BY
Pressure and Temperature Instrument				
	GOST-Pattern Approval	Dec. 19, 2014	Resistance Temperature Detector [R211, R212, R221, R222, R311, R312, R321, R322, R331, R332, R810, R820, R830, R921, R922, R941, R942, R951, R952] Temperature Gauge(T200) [T210, T212, T219, T220, T229, T230, T239, T250, T259, T521, T522, T523, T524, T525, T761, T762, T763, T764] Thermocouple [R111, R112, R121, R122, R311, R312, R322, R331, R332, R921, R922, R941, R942, R951, R952]	ROSSTANDARD
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)	Mar. 10, 2017	Pressure & Temperature Switch [953 Series : P953, P970, T953]	NEPSI
	Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6 Ga)	Nov. 05, 2015	Pressure Gauge [P500 Series, P501 Series, P690 Series] Temperature Gauge [T500 Series]	
Pressure Instrument, Temperature Instrument, Flow & Level Instrument				
	Pressure Equipment Directive (2014/68/EU) Annex III Module H	Apr. 26, 2017	Pressure instrument [P252, P257, P258, P229, P359, P500, P510,P520, P531, P532, P533, P534, P537, P539,P535, P536, P710, P720, P740, P630, P631,P632, P633, P634, P635, P651, P652, P653,P654, P655] Pressure gauge accessories [A040, A070] Flow elements [F500, F510, F600, F700, F750] Level instruments [L110, L210, L140, L240, L300, L310, L500, L510]	TUV NORD Systems GmbH & Co. KG
	TRCU (Technical Reulation of Customs Union)	Feb. 14, 2017	Orifice Plate [F100, F200, F300, F400, F500, F510]	TECHNO STANDARD
		Jun. 09, 2016	Flow Element & Venturi Tube [F600, F700, F750, F760, F770]	
		Mar. 21, 2016	Pressure Gauge	
		Apr. 07, 2016	Level Gauge	
		Dec. 15, 2015	Thermowell	
		Dec. 03, 2015	Thermometer	
		Dec. 03, 2015	Thermocouple & RTD	
Flow & Level Instrument				
	Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)	Dec. 14, 2012	ILLUMINATOR [A250]	KGS
Gas Instrument				
	NEP (New Excellent Product)	Sep. 07, 2018	Wireless Leak Detector [GLD1000]	KOITA
	Explosion Proof Certificate - Flame Proof (Ex de IIC T6 IP65)	Jul. 26, 2018	Wireless Leak Detector [GLD1000]	KGS

System certificates

Quality Management System - ISO 9001 : 2015

CERTIFICATE QUALITY MANAGEMENT SYSTEM



Registration Date 2018-08-27
Expiration Date 2021-08-26
Initial Registration Date 1994-08-27
Revision Date 2018-08-05
Certificate Number AC-00019

WISE CONTROL INC.

- HEAD OFFICE & YONGIN FACTORY : 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea (Zip code : 17097)
- HWASEONG FACTORY : 5, Madogongdan-ro 4-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea (Zip code : 18542)
- BUCHUN FACTORY : 122, Jomaru-ro 385beon-gil, Bucheon-si, Gyeonggi-do, Korea (Zip code : 14556)
- SEOUL OFFICE : 181, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea (Zip code : 08503)

*Korean Foundation for Quality certifies that
The Quality Management System of
the above organization has been audited and
has complied with the requirements of
the following standard*

Standard

ISO 9001:2015/KS Q ISO 9001:2015

Scope of certification

- HEAD OFFICE & YONGIN FACTORY :
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
- DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- HWASEONG FACTORY : DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
- BUCHUN FACTORY :
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED)
- DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR
- DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF BELLOWES AND HIGH VACUUM VALVES



[KAB-QC-01]



KFQ has been accredited in respect of ISO 9001 covered by the IAB Accreditation Certificate Number: K2B-QC-01

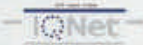
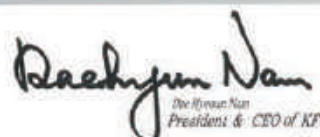
Daehyun Nam
The Chairman
President & CEO of KFQ

www.kfq.or.kr

1F, Woomin Lion's Valley (Bldg. 2, 188, Gasan digital 1-ro, Geumcheon-gu, Seoul, 08503, Korea)

System certificates

Environment Management System - ISO 14001 : 2015

CERTIFICATE ENVIRONMENTAL MANAGEMENT SYSTEM											
 Korean Foundation for Quality <table border="0"> <tr> <td>Registration Date</td> <td>2018-08-05</td> </tr> <tr> <td>Expiration Date</td> <td>2021-08-04</td> </tr> <tr> <td>Initial Registration Date</td> <td>2012-11-05</td> </tr> <tr> <td>Revision Date</td> <td>2018-08-05</td> </tr> <tr> <td>Certificate Number</td> <td>EAC - 05427</td> </tr> </table>	Registration Date	2018-08-05	Expiration Date	2021-08-04	Initial Registration Date	2012-11-05	Revision Date	2018-08-05	Certificate Number	EAC - 05427	WISE CONTROL INC. • HEAD OFFICE & YONGIN FACTORY : 2022, Deogyong-daero, Gilheung-gu, Yongin-si, Gyeonggi-do, Korea (Zip code : 17097) • SEOUL OFFICE : 181, Gasan digital 1-ro, Geumcheon-gu, Seoul (Zip code : 08503) <i>Korean Foundation for Quality certifies that The Environmental Management System of the above organization has been audited and has complied with the requirements of the following standard</i> Standard ISO 14001:2015/KS ISO 14001:2015 Scope of certification • DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE INSTRUMENTS (FLAMEPROOF TYPE INCLUDED) • DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF PRESSURE AND TEMPERATURE TRANSMITTER (FLAMEPROOF TYPE INCLUDED) • DESIGN, DEVELOPMENT AND SALES OF GAS SENSOR • DESIGN, DEVELOPMENT AND SALES OF FLOW AND LEVEL MEASURING INSTRUMENTS (ORIFICE PLATE, FLOW NOZZLES, VENTURI TUBES, LEVEL GAUGES AND ULTRASONIC LIQUID FLOW METER)
Registration Date	2018-08-05										
Expiration Date	2021-08-04										
Initial Registration Date	2012-11-05										
Revision Date	2018-08-05										
Certificate Number	EAC - 05427										
											
 [KAB-EC-01]											
KFQ has been accredited in respect of ISO 14001 covered by the KAB Accreditation Certificate Number KAB-EC-01											
 <i>Daehyun Nam</i> The Korean Nam President & CEO of KFQ www.kfq.or.kr											
12F, Woori Lion's Valley Bldg. B, 108, Gasan digital 1-ro, Geumcheon-gu, Seoul, 08501, Korea											

KEPIC Certificate-MN

 전력산업기술기준 Korea Electric Power Industry Code	
KEPIC CERTIFICATE	
Certificate Number : MN-597	
Company Name	: WISE CONTROL Inc.
Address	: 5, Madogongdan-ro 4-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea
This is to certify that the above company has established and maintained proper quality assurance program for the scope shown below in accordance with the applicable requirements of Korea Electric Power Industry Code.	
Applicable Code	: KEPIC-MN
Certification Date	: April 16, 2016
Expiration Date	: April 15, 2019
Scope :	
- Class 1·2·3 fabrication for parts & appurtenances (including design scope) - Material organization supplying ferrous and welding material related to above items	
	대한전기협회장 Chairman of Korea Electric Association 

System certificates

ASME Certification Mark with Designator S, U & PP Certificate

The American Society of Mechanical Engineers





CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

WISE Control Inc.
 5, Madogongdan-ro 4-gil, Mado-myeon
 Hwaseong-si, Gyeonggi-do 18542
 Republic of Korea

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED:

June 11, 2018

EXPIRES:

July 23, 2021

CERTIFICATE NUMBER:

49,362


 Board Chair, Conformity Assessment


 Managing Director, Conformity Assessment

Pressure Instrument

KS Certificate (KS B 5305)



인증번호: 제 3086 호





제 품 인 증 서

1. 제조업체명 : (주)와이즈산전 부천공장
2. 대표자성명 : 이상훈
3. 공장소재지 : 경기도 부천시 조마루로385번길 122, 12층1201호~1214호(춘의동, 삼보테크노타워)
4. 인증제품
 - 가. 표준명 : 부르동관 압력계
 - 나. 표준번호 : KS B 5305
 - 다. 종류·등급·호칭 또는 모델 :
보통형 1.0급: 압력계, 진공계
보통형 1.5급: 압력계, 진공계, 연성계, 끝.

「산업표준화법」 제17조 제1항에 따른 인증심사를 실시한 결과 한국 산업표준(KS)과 인증심사기준에 적합하므로, 「산업표준화법」 제15조 및 같은 법 시행규칙 제10조 제1항에 따라 위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2019 년 02 월 01 일



한국표준협회



한국표준협회장

1. 최초 인증일 : 1983-04-27
2. 차기심사 유효기한 : 2021-11-27
3. 최종 변경일 : 2019-02-01 이전심사 합격

Pressure Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)





제2018-053446-02-1 호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품	목
Smart Pressure Transmitter	
형식·모델(용량·등급) / 인증번호	
SMT2001(Ex d IIC T6) / 19-KA280-0013X	
인 증 기 준	
고용노동부고시 제2018-54호	
인 증 조 건	

- 제조공장**
본 인증서는 경기도 용인시 기흥구 덕영대로 2022에서 생산하는 제품에 한함.
- 제품개요**
제품개요: 당 제품은 알루미늄 합금으로 제조된 1종 지역에서 사용가능한 내압방폭구조 압력 트랜스미터임.
제품전력: (12 ~ 24) Vdc, (4 ~ 20) mA.
사용주변온도: -40 ℃ ≤ T_a ≤ +60 ℃ (공칭온도 동일)
- 인증범위** 본 인증서는 위의 형식번호에 관하여 유효함.
- 안전한 사용을 위한 조건**
화염접촉면의 치수는 제조자에게 문의할 것.
- 인증(변경)사항 없음.**
- 그 밖의 사항**
·사용자 매뉴얼 참조
·안전인증등록·품질관리, 확인검사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수

2019 년 1 월 8 일

한국산업기술시험원장



산업안전보건법, 시험규칙 [별지 제10호외6서4] (08386) 서울시 구로구 디지털로 26길 8(구로동) <http://www.ktl.or.kr>
(52852) 경상남도 진주시 충의로 10(충무공동)

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




제2018-053437-02-1 호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

_____	품	목	_____
_____	Smart Pressure Transmitter		_____
_____	형식·모델(용량·등급) / 인증번호		_____
_____	SMT2002/3A(Ex d IIC T6) / 19-KA280-0011X		_____
_____	인 증 기 준		_____
_____	고용노동부고시 제2016-54호		_____
_____	인 증 조 건		_____

- 제조공장**
본 인증서는 '경기도 용인시 기흥구 덕영대로 2022'에서 생산하는 제품에 한함.
- 제품개요**
제품개요: 당 제품은 알루미늄 합금으로 제조된 1층 지막에서 사용가능한 내압발폭구조 압력 트랜스미터임.
제품전력: (12 ~ 24) Vdc, (4 ~ 20) mA
사용주위온도: -40 ℃ ≤ T_a ≤ +60 ℃ (공칭온도 동일)
- 인증범위** 본 인증서는 위의 형식번호에 한하여 유효함.
- 안전한 사용을 위한 조건**
화염접합면의 치수는 제조자에게 문의할 것.
- 인증(변경)사항** 없음.
- 그 밖의 사항**
사용자 매뉴얼 참조
안전인증품의 품질관리, 확인검사 수급, 변경사항 신고 등 인증 받은 자의 의무 준수.

2019 년 1 월 8 일

한국산업기술시험원장



산업안전보건법 시행규칙 [별지 제10호의6서식] (08389) 서울특별시 구로구 디지털로 20길 8(구로동) http://www.ktl.re.kr
 (52852) 경상남도 진주시 홍의로 10(충무공동)

Pressure Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




제2018-053439-02-1호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목 Smart Pressure Transmitter
형식·모델(용량·등급) / 인증번호 SMT2002/3B(Ex d IIC T6) / 19-KA2BO-0012X
인 증 기 준 고압노동부고시 제2018-54호
인 증 조 건

- 제조공장**
본 인증서는 '경기도 용인시 기흥구 덕영대로 2022'에서 생산하는 제품에 관한.
- 제품개요**
 - 제품개요: 된 제품은 알루미늄 합금으로 제조된 1종 지역에서 사용가능한 내압방폭구조 압력 트랜스미터임.
 - 제품질량: (12 ~ 24) Vdc, (4 ~ 20) mA
 - 사용주위온도: -40 ℃ ≤ T_a ≤ +60 ℃ (공정온도 용액)
- 인증범위** 본 인증서는 위의 형식번호에 한하여 유효함.
- 안전한 사용을 위한 조건**
 - 화염접촉면의 치수는 제조자에게 문의할 것.
- 인증(변경)사항** 없음.
- 그 밖의 사항**
 - 사용자 매뉴얼 참조
 - 안전인증표지 부착관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수

2019 년 1 월 8 일

한국산업기술시험원장



산업안전보건법, 시험규칙 [별지 제10호의5서식] (06388) 서울시 구로구 디지털로 26길 8(구로동) <http://www.ktl.or.kr>
 (52852) 경상남도 진주시 충의로 1(충무공동)

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




제2018-020573-03-1호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목 UHP Pressure Transmitter	
형식·모델(용량·등급) / 인증번호 PT850(Ex d IIC T6) / 18-KA2BO-0615X	
인 증 기 준 고용노동부고시 제2016-64호	
인 증 조 건	

1. 제조공장
본 인증서는 아래의 제조공장에서 생산하는 제품에 한함.
→제조공장명: (주)와이즈산전 / 소재지: 경기도 용인시 기흥구 덕영대로 2022
2. 제품개요
제품종도: 압 제품은 스테인레스강으로 제조된 네압방폭구조 압력트랜스미터임
제품칭력: (12 ~ 24) Vdc, (4 ~ 20) mA
사용주위온도: -20 ℃ ≤ T_a ≤ +70 ℃
공정온도: 사용주위온도와 동일함.
3. 인증범위: 본 인증서는 위의 형식번호에 한하여 유효함.
4. 안전한 사용을 위한 조건:
화염접합면의 차수는 제조자에게 문의할 것.
5. 인증(변경)사항: 없음.
6. 그 밖의 사항
사용자 매뉴얼 참조
안전인증품의 품질관리, 확인검사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수

2018 년 10 월 04 일

한국산업기술시험원장



산업안전보건법 시행규칙 [별지 제10호의6서식] (08388) 서울시 구로구 디지털로 26길 8(구로동) http://www.ktil.or.kr
(52852) 경상남도 진주시 충무로 10(충무공동)

Pressure Instrument

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T4 IP65)



제 2018-BO-0013-1 호

안전인증서

(주)와이즈산전

경기도 용인시 기흥구 덕영대로 2022 (상갈동)

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목	
UHP Pressure Transmitter	
형식·모델/용량·등급/인증번호	
형식·모델 PT851	인증번호 18-AV2BO-0013
Ex ia IIC T4/T5/T6 IP65	
T6: -20℃ ≤ Ta ≤ +55℃, T5: -20℃ ≤ Ta ≤ +70℃, T4: -20℃ ≤ Tamb ≤ +80℃	
용량·등급 입력: 12 ~ 24 VDC, 출력: 4 ~ 20 mA, UI= 28 V, II= 93 mA, Pi= 650 mW, Ci= 0.0414 uF, Li= 48.07 uH, 케이블: UL2464 AMSB(AWG26), Plug-SCK-12-4(P), 커넥터: SCN-12-4(R)	
인 증 기 준	
방호장치 안전인증 고시(고용노동부고시 제2016-54호)	
인 증 조 건	
(주)와이즈산전, 경기도 용인시 기흥구 덕영대로 2022 (상갈동)에서 생산되는 제품에 한함.	

2018.01.05 최초 교부

2018.04.30 동일발식

2018년 04월 30일



한국산업안전보건공단 이사장

Explosion Proof Certificate - Type of Protection (Ex nA IIC T6...T4 IP65)

제 2017-BO-0420-1 호



안 전 인 증 서

(주) 와이즈산전

경기도 용인시 기흥구 덕영대로 2022 (상갈동)

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및
같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에
적합하므로 안전인증표시의 사용을 인증합니다.

품 목

압력전송기 (Pressure Transmitter)

형식·모델/용량·등급/인증번호

형식·모델
PT852

인증번호

17-AV2BO-0420

Ex nA IIC T4/T5/T6 IP65

용량·등급 T6: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$, T5: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$, T4: $-20^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

입력: 12 - 24 VDC, 출력: 4 - 20 mA,

케이블: UL2464 AMSB(AWG24), Plug-SCK-12-4(P), 커넥터: SCN-12-4(R)

인 증 기 준

방호장치 안전인증 고시(고용노동부고시 제2016-54호)

인 증 조 건

(주) 와이즈산전, 경기도 용인시 기흥구 덕영대로 2022 (상갈동)에서 생산되는 제품에 한함.

2017.09.05 최초 교부
2018.04.30 통밀환식

2018년 04월 30일

한국산업안전보건공단 이사장



Pressure Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)

제 2012-B0-0057 호



안 전 인 증 서

(주)와이즈산전

경기도 용인시 기흥구 상갈동 199번지

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

Differential Pressure Switch

형식·모델/용량·등급/인증번호

형식·모델	인증번호
P991	12-AV2B0-0057
Ex d IIC T6	
AC125/250 V 15A, DC 30 V 2A	
용량·등급	$T_{amb} = -20\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$, $T_{process} = -20\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

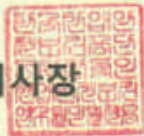
인 증 조 건

아래 주소에서 생산되는 제품에 한함.

(주)와이즈산전, 경기 용인시 기흥구 상갈동 199번지

2012년 01월 18일

한국산업안전보건공단 이사장



Explosion Proof Certificate - Flame Proof (Ex d IIB+H2 T6)

제 2010-BO-0272 호



안 전 인 증 서

(주)와이즈산전

경기도 용인시 기흥구 상갈동 199번지

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4에 따른 안전인증 심사결과 안전·보건 기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품

목

Pressure Indicating Switch

형식·모델/용량·등급/인증번호

형식·모델	용량·등급	인증번호
P990	Ex d IIB+H2 T6	10-AV2BO-0272

인 증 기 준

방호장치 의무안전인증 고시(노동부고시 제2009-81호)

인 증 조 건

· '경기도 용인시 기흥구 상갈동 199번지'에서 생산되는 제품에 한함

2010년 4월 12일

한국산업안전보건공단 이사장



Pressure Instrument

Canadian Registration Number - Pressure Equipment Safety

 the pressure equipment safety authority	Celebrating 20 years 1995 – 2015	9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787
May 14, 2015		
Attention: Mr. CH LEE WISE CONTROL INC 199 SANGGAL-DONG GIHEUNG-GU YONGIN-SIM GYEONGGI-DO.		
The design submission, tracking number 2015-03108, originally received on April 21, 2015 was surveyed and accepted for registration as follows:		
CRN : 0F15658.2	Accepted on: May 14, 2015	
Reg Type: New Design	Expiry Date: May 14, 2025	
Drawing No. : SR-W01-REV0 - SCOPE OF REGISTRATION		
Fitting type: PRESSURE GAUGES, SWITCHES, & DIAPHRAGM SEALS		
The registration is conditional on your compliance with the following notes:		
<i>This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.</i>		
An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.		
Enclosed are stamped prints for your reference.		
Sincerely,		
		
RADISAVLJEVIC, ZANA, R.E.T.		
Page 1 of 1		

Canadian Registration Number - Pressure Equipment Safety



9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

April 12, 2013

Mr. CH LEE
WISE CONTROL INC
199 SANGGAL-DONG GIHEUNG-GU
YONGIN-SIM
GYEONGGI-DO,

Dear Mr. CH LEE,

The design submission, tracking number 2012-02855, originally received on April 03, 2012 was surveyed and accepted for registration as follows:

CRN :	0F13241.2	Accepted on: April 12, 2013
Reg Type :	New Design	Expiry Date: April 12, 2023
Drawing No. :	SOR-A-REV0 , SOR-GA-REV0	
Fitting Desc:	GAUGES AND ACCESSORIES	

The registration is conditional on your compliance with the following notes:

The registration covers the fittings listed in the registration summary tables SOR-A-Rev.0 dated 30.05.2012 and SOR-GA-WISE-Rev.0 dated 10.12.2012.

Thermowells are not covered by this registration.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

QNSHCENKO, TETYANA, P. Eng.
Design Survey Engineer

Pressure Instrument

Canadian Registration Number - Pressure Equipment Safety



the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

April 11, 2012

Mr. CH LEE
WISE CONTROLS INC
199 SANGGAL-DONG GIHEUNG-GU
YONGIN-SIM
GYEONGGI-DO,

Dear Mr. CH LEE,

The design submission, tracking number 2012-00686, originally received on February 03, 2012 was surveyed and accepted for registration as follows:

CRN : 0C12256.2

Accepted on: April 11, 2012

Reg Type : New Design

Expiry Date: April 11, 2022

Drawing No. : SOR-V Rev 0

Fitting Desc: NPT 1/4 & 1/2 VALVES, MODEL A080

The registration is conditional on your compliance with the following notes:

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.
Enclosed are stamped prints for your reference.

Sincerely,

ONSHCHENKO, TETYANA, P. Eng.
Design Survey Engineer

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)

		
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY		
Cert NO.GYJ18.1093X		
This is to certify that the product	Pressure Transmitter	
manufactured by	WISE Control Inc. (Address:2022 Dengyong-daero, Gilheung-gu, Yongin-si, Gyeonggi-do, Korea 17097)	
which model is	PT850	
Ex marking	Ex dIIC T6 Gb	
product standard	—	
drawing number	DECZ18001-A-PT850-00	
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010,GB 3836.2-2010		
This Approval shall remain in force until	2023.03.15	
Remarks	1.Conditions for safe use are specified in the attachment to this certificate. 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment to this certificate. 3.Safe parameters specified in the attachment to this certificate. 4.IP Code: IP65.	
Director 		
National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation		
Issued Date 2018.03.16		
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.		
103 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepi.org.cn	Tel: +86 21 64368180 Fax: +86 21 64844580
6080005		

Pressure Instrument

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T4 Ga)

	
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY	
Cert NO.GYJ18.1095	
This is to certify that the product	Pressure Transmitter
manufactured by	WISE Control Inc. (Address: 2021 Dengyong-daera, Giheung-gu, Yongin-si, Gyeonggi-do, Korea 17097)
which model is	PT851
Ex marking	Ex ia IIC T4-T6 Ga
product standard	—
drawing number	PT851-STA-000
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010, GB 3836.4-2010, GB 3836.20-2010	
This Approval shall remain in force until 2023.03.15	
Remarks	1. Conditions for safe use are specified in the attachment to this certificate. 2. Intrinsic safety parameters specified in the attachment to this certificate.
Director 	
National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation	
Issued Date 2018.03.16	
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.	
101 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepsl.org.cn
	Tel: +86 21 54368180 Fax: +86 21 54844580
Edition 05	

Explosion Proof Certificate - Type of Protection (Ex nA IIC T6...T4 Gc)

		
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY		
Cert NO.GYJ18.1094		
This is to certify that the product	Pressure Transmitter	
manufactured by	WISE Control Inc. (Address:2022 Dongyeong-daero, Gilheung-gu, Yongin-si, Gyeonggi-do, Korea 17097)	
which model is	PT852	
Ex marking	Ex nA IIC T4~T6 Gc	
product standard	—	
drawing number	PT852-STA-000	
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010, GB 3836.8-2014		
This Approval shall remain in force until 2023.03.15		
Remarks	1. Conditions for safe use are specified in the attachment to this certificate. 2. Safe parameters specified in the attachment to this certificate. 3. IP Code: IP65.	
Director 		
National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation		
Issued Date 2018.03.16		
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.		
103 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepi.org.cn	Tel: +86 21 54368180 Fax: +86 21 54844580
EdRen05		

Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)




EU Type Examination Certificate CML 17ATEX1235X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **SMT Series Smart Pressure Transmitter**
- 3 Manufacturer **WISE Control Inc.**
- 4 Address 2022 Deogyong-daero,
Giheung-gu, Yongin-si,
Gyeonggi-do, Rep. of Korea
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK. Notified Body Number 2503, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012+A11:2013
EN 60079-1:2014
EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 2 G D

Ex db IIC T4/T5/T6 Gb

Ex tb IIC T80°C/T90°C/T130°C Db

Ta = -40°C to +80°C

This certificate shall only be copied in its entirety and without change
www.CMLEx.com

1 of 4


A. Snowden
Certification Officer

**Explosion Proof Certificate - Flame Proof (Ex db IIC T4/T5/T6 Gb)
Dust Ignition Proof (Ex tb IIIC T80 °C/T90T °C/130 °C Db)**

		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEX CML 17.0157X	Issue No. 0:	Certificate history: Issue No. 0 (2018-08-31)
Status:	Current	Page 1 of 3	
Date of Issue:	2018-08-31		
Applicant:	WISE Control Inc. 2022 Deogyong-daero, Gyeong-gu, Yangju-si, Gyeonggi-do Korea, Republic of		
Equipment:	SMT Series Smart Pressure Transmitter		
Optional accessory:			
Type of Protection:	Flameproof, Dust		
Marking:	Ex db IIC T4/T5/T6 Gb Ex tb IIIC T80°C/T90°C/T130°C Db Tamb = -40°C to +50°C		
Approved for issue on behalf of the IECEx Certification Body:	A Snowden MEF		
Position:	Certification Officer		
Signature: (for printed version)			
Date:	August 31, 2018		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website			
Certificate issued by: Certification Management Limited Unit 1, Newport Business Park New Port Road Elmham Port, CH85 4LZ United Kingdom			
			

Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




No. 2014-026992-03

안전인증서

Certificate of Safety

WISE CONTROL INC.
2022, DeogYeong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 34 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 4 of Article 58-4 of ENFORCEMENT ORDINANCE OF the same ACT.

Electrical Equipment
Thermocouple, Resistance temperature Detector

Model (Marking) / Certificate No.
R Series (Ex d IIC T6) / 14-KB2BO-0653

Applied standards
Announcement No. 2013-54 of Ministry of Employment and Labor

Conditions of Certification

- 1. Manufacturing location(s)** : This certificate is only valid for the specified products produced at "2022, DeogYeong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea."
- 2. Description of equipment**
Rating : 4 ~ 20 mA, DC 24 V
Ambient Temperature : -40 °C ≤ Ta ≤ +65 °C
- 3. Scope of certification** : This certificate is only valid for the models as above.
- 4. Special conditions for safe use** : None
- 5. Details of certificate changes** : None
- 6. Details of the others** : Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.

Date of Issue : 2014-10-28



한국산업기술시험원장
KOREA TESTING LABORATORY

FP251-B

152-718 서울시 구로구 디지털로 26길 87(구로동) <http://www.ktl.re.kr>
426-910 경기도 안산시 삼죽구 해안로 723(사동)

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)

제 2013-B0-0415 호



안 전 인 증 서

(주)와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

Multi-Point Temperature Sensor

형식·모델/용량·등급/인증번호

형식·모델	인증번호
R550	13-AV2B0-0415X

용량·등급

Ex d IIC T6 IP65
50 VDC, 10 mA $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함,

(주)와이즈산전, 경기도 용인시 기흥구 덕영대로 2022

2013년 07월 25일

한국산업안전보건공단 이사장



Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)

제 2013-BO-0416 호			
안 전 인 증 서			
(주)와이즈산전			
경기도 용인시 기흥구 덕영대로 2022			
위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.			
품 목			
Multi-Point Temperature Sensor			
형식·모델/용량·등급/인증번호			
형식·모델 R560	인증번호 13-AV2BO-0416X		
용량·등급			
Ex d IIC T6 IP65 50 VDC, 10 mA -20℃ ≤ Ta ≤ +60℃			
인 증 기 준			
방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)			
인 증 조 건			
아래 주소에서 생산되는 제품에 한함.			
(주)와이즈산전, 경기도 용인시 기흥구 덕영대로 2022			
2013년 07월 25일			
한국산업안전보건공단 이사장 			

Explosion Proof Certificate - Increased Safety (Ex e II)



제13-0346호

안 전 인 증 서

[주]와이즈산전

경기 용인시 기흥구 덕영대로2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

Space heater

형식·모델 / 용량·등급 / 인증번호

형식·모델	용량·등급	인증번호
H100 series	Max 277V, Max 500W	13-GA2BO-0346U
	Ex e II	

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

-40℃≤Tamb≤+70℃, 뒷면발조

2013년 05월 09일

한국가스안전공사 사장



Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP56)



제12-0793호

안 전 인 증 서

(주)와이즈산전

경기 용인시 기흥구 퇴명대로2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건 기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목		
Temperature Sensor(K. T. D)		
형식·모델 / 용량·등급 / 인증번호		
형식·모델	용량·등급	인증번호
RL Series	DC 50V이하·2mA이하 Ex d IIC T6 IP56	12-GA2BO-0793

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

1. Tamb = -20℃ ~ +60℃
2. 용기에 1.27MPa 압력시험 후 출고할 것

2012 년 12 월 25 일

한국가스안전공사 사장



Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP67)



제12-0430호

안 전 인 증 서

(주)와이즈산전

경기 용인시 기흥구 덕영대로2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건 기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

Temperature Sensor

형식 · 모델 / 용량 · 등급 / 인증번호

형식 · 모델	용량 · 등급	인증번호
RC Series	DC 50V 이하, 2mA 이하 Ex d IIC T6 (IP67)	12-GA2BO-0430

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

1. Tamb = -20℃ ~ +60℃
2. 용기에 1.1MPa 이상의 압력시험 후 출고할 것

2012 년 08 월 01 일

한국가스안전공사 사장



Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)



No. 2011 - 0267

Safety Certificate

• Manufacturer: WISE Control Inc.
 • Address: 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

The following equipment fabricated by the above manufacturer has been certified for the use of the Safety Certification Mark as the equipment is assessed and tested in accordance with the article 34 of the Occupational Safety & Health Act and the article 58 (4) 4 of the Enforcement Rule thereof.

• Product	Thermocouple and Resistance Temperature Detector
• Type(Model)	RS series(See the back of the scope of certification)
• Rating	10 mA, 4 VDC
• Type of Protection	Ex d IIC T6 IP65
• Certification No.	11-GA2BO-0267
• Safety Certification Standards	Notification of Protective device Mandatory Safety Certification (Notice of Ministry of Employment and Labor No. 2010-36)
• Certification condition	1. Tamb = -20 ℃ ~ +60 ℃
• Date of issue	November 1th, 2011

Approved for issue on behalf of the president : Ki youn Song
 position : General Manager
 Signature: 


Korea Gas Safety Corporation

Explosion Proof Certificate - Flame Proof (Ex d IIB+H2 T6)

제 2011-BO-0152 호



안 전 인 증 서

와이즈산전(주)
경기도 용인시 기흥구 상갈동 199번지

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4에 따른 안전인증 심사결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품

목

Temperature Indicating Switch

형식·모델/용량·등급/인증번호

형식·모델	용량·등급	인증번호
T990*	Ex d IIB+H2 T6 -20 ℃ ≤ Ta ≤ 60 ℃ 정격: 인증조건 3항 참조(뒤쪽)	11-AV2BO-0152X

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

(뒤쪽)참조

2011년 6월 7일

한국산업안전보건공단 이사장



Temperature Instrument

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6)

(Front page)

No. 2011-B0-0108-3



Safety Certificate

WISE Control Inc.

2022, Deogyong-daero, Giheung-gu, Youngin-si, Gyeonggi-do, Republic of Korea

The following product produced by the above company has been authorized for the use of the Mark  as the product has satisfied the safety and health standards stipulated in the article 34 of Industrial Safety and Health Law.

PRODUCT

Temperature Sensor (Thermocouple, RTD)

TYPE · MODEL/CAPACITY · GRADE/CERTIFICATION No

TYPE · MODEL R95X(ETR10+)	CERTIFICATION No. 11-AV280-0108
-------------------------------------	---

CAPACITY · GRADE

Ex ia IIC T6

UI = 30 V, II = 100 mA, PI = 750 mA

CI = 0.1 nF, LI = 0.01 mH

Tamb: -40°C ~ +65°C

SAFETY CERTIFICATION STANDARDS

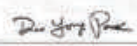
Notification No. 2016-54 of the Ministry of Employment and Labor

CERTIFICATION CONDITION

See the (Rear page)

DATE : APR. 16, 2018

MAY. 06, 2011 (Original issue)

Signature 

President of Korea Occupational Safety and Health Agency

Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6...T3 Ga/Gb)



CERTIFICATE

EU-Type Examination

(1) **EU-Type Examination**

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 09ATEX0006 X** Issue Number: **4**

(4) **Product:** Temperature Sensor R950 Series (ETR10) models Type R95*****

(5) **Manufacturer:** Wise Control Inc.

(6) **Address:** 2022 Deogyong-daero, Gilheung-gu, Yongin-si, Oyeonggi-do (17097), Korea

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR16.0055/01.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013	EN 60079-11 : 2012	EN 60079-26 : 2015
--------------------------------	--------------------	--------------------

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1/2 G Ex ia IIC T6...T3 Ga/Gb

Date of certification: 8 December 2017

DEKRA Certification B.V.



R. Schuller
Certification Manager



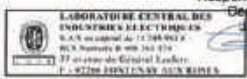
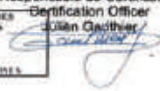
Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

Page 1/5

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 86 96 83000 F +31 86 96 83100 www.dekra-certification.com Registered Arnhem 09085396

Temperature Instrument

Explosion Proof Certificate - Increased Safety (ATEX Ex e IIC Gb)

 ATTESTATION D'EXAMEN UE DE TYPE EU TYPE EXAMINATION CERTIFICATE 		
1 Version : 00	LCIE 17 ATEX 3029 U	Issue : 00
Directive 2014/34/UE Composant destiné à être utilisé sur/dans un Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles		Directive 2014/34/UE Component intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
2	Produit : Capteur de température pour tête de bobine et sonde de température de palier	Product : Coil and temperature detector and Bearing temperature Sensor
Type: RB40 series		
4 Fabricant :	Manufacturer : WISE Control Inc.	
5 Adresse :	Address : 2022 Deogyong-daero, Gyeong-gu, Yongin-si, Gyeonggi-do, (17097) Korea	
6 Ce produit et ses variantes éventuelles acceptées sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités en référence.	This product any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.	
7 Le LCIE, Organisme Notifié sous la référence 0081 conformément à l'article 17 de la directive 2014/34/UE du Parlement européen et du Conseil du 26 février 2014, certifie que ce produit est conforme aux Exigences Essentielles de Sécurité et de Santé pour la conception et la construction de produits destinés à être utilisés en atmosphères explosibles, données dans l'annexe II de la Directive.	LCIE, Notified Body number 0081 in accordance with article 17 of the Directive 2014/34/UE of the European Parliament and the Council of 26 February 2014 certifies that product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.	
Les résultats des vérifications et essais figurent dans le(s) rapport(s) confidentiel(s) N° :	The examination and test results are recorded in confidential report(s) N° : 145308-604724	
8 Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par la conformité à :	Compliance with the Essential Health and Safety Requirements has been assured by compliance with : EN 60079-0:2012 + A11:2013 EN 60079-7:2007	
9 Le signe « U » placé à la suite du numéro de l'attestation, indique que cette attestation ne doit pas être confondue avec celle destinée à un appareil ou un système de protection. Cette attestation partielle peut être utilisée comme base pour l'attestation d'un appareil ou d'un système de protection.	The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.	
10 Cette Attestation d'Examen UE de Type concerne uniquement la conception et la construction du produit spécifié. Des exigences supplémentaires de la directive sont applicables pour la fabrication et la fourniture du produit. Ces dernières ne sont pas couvertes par la présente attestation.	This EU Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.	
11 Le marquage du produit est mentionné dans l'annexe de cette attestation.	The marking of the product is specified in the schedule to this certificate.	
Fontenay-aux-Roses, le 21 novembre 2017		
		Responsable de Certification Certification Officer 
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LCIE Laboratoire Central des Industries Electriques Une société de Bureau Veritas	20 Avenue du Général Lamoignon 92240 Fontenay-aux-Roses FRANCE	WWW.LCIE.FR

Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6...T3 Ga)




(1) EU - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

EPS 17 ATEX 1 063 X Revision 0

(4) Equipment: Bearing Temperature Sensor R84**

(5) Manufacturer: WISE (Wise Control Inc.)

(6) Address: 2022, Deogyong-daero, Gilbeung-gu, Yongin-si, Gyeonggi-do, 17097, Korea

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH4227.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 1G Ex ia IIC T6...T3 Ga





Certification department of explosion protection

H. Schaffer

Nuremberg, 2017-09-31

Page 1 of 3

Certificate without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 17 ATEX 1 063 X, Revision 0.

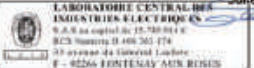
BUREAU VERITAS
Consumer Products Services Germany GmbH

Theissstrasse 31, 91041 Nuremberg, Germany
Phone: +49 (0) 91 40 41 0

cap-nuremberg@bureauveritas.com
www.bureauveritas.de/en

Temperature Instrument

Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)

 ATTESTATION D'EXAMEN UE DE TYPE EU TYPE EXAMINATION CERTIFICATE 		
1 Version : 04	LCIE 06 ATEX 6072 X	Issue : 04
Directive 2014/34/UE Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles		Directive 2014/34/EU Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
3 Produit : Sonde de température à thermocouple et à résistance		Product : Thermocouple and resistance temperature detector
Type: R940 series (ETR series)		
4 Fabricant : WISE Control Inc.		Manufacturer :
5 Adresse : 2022 Deogyang-daero, Gihung-gu Yongin-si, Gyeonggi-do (17097), Korea, Republic of		Address :
6 Ce produit et ses variantes éventuelles acceptées sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités en référence.		This product any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
7 Le LCIE, Organisme Notifié sous la référence 0081 conformément à l'article 17 de la directive 2014/34/UE du Parlement européen et du Conseil du 26 février 2014, certifie que ce produit est conforme aux Exigences Essentielles de Sécurité et de Santé pour la conception et la construction de produits destinés à être utilisés en atmosphères explosibles, données dans l'annexe II de la Directive. Les résultats des vérifications et essais figurent dans le(s) rapport(s) confidentiel(s) N° : 60044351-544327-01, 60052279-553148, 123618-648102-02, 123618-648102-01, 137442-676736-02		LCIE, Notified Body number 0081 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 certifies that product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential report(s) N° :
8 Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par la conformité à : EN 60079-0:2012 + A11:2013 ; EN 60079-1:2007		Compliance with the Essential Health and Safety Requirements has been assured by compliance with :
9 Le signe « X » lorsqu'il est placé à la suite du numéro de l'attestation, indique que cet appareil est soumis aux conditions particulières d'utilisation, mentionnées dans l'annexe de cette attestation.		If the sign 'X' is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
10 Cette Attestation d'Examen UE de Type concerne uniquement la conception et la construction du produit spécifié. Des exigences supplémentaires de la directive sont applicables pour la fabrication et la fourniture du produit. Ces dernières ne sont pas couvertes par la présente attestation.		This EU Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
11 Le marquage du produit est mentionné dans l'annexe de cette attestation. Fontenay-aux-Roses, le 24 juillet 2017		The marking of the product is specified in the schedule to this certificate.
Responsable de Certification Certification Officer Julien Gauthier		
 LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES 9 A.B. au capital de 15.780 000 € RCS Nanterre B 406 263 174 25 avenue du Général Leclerc F - 92244 FONTENAY-AUX-ROSES		
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Page 1 of 5		

Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e IIC T6...T1 Gb)




EU - Type Examination Certificate

(1) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(2) EU - Type Examination Certificate Number

EPS 14 ATEX 1 473 X Revision 1

(3) Equipment: Temperature sensor R950 Series (ETR 10 Series)

(4) Manufacturer: WISE Control Inc.

(5) Address: 2022, Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea

(6) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(7) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 13TH0485.

(8) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012 **EN 60079-7:2007**

(9) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(10) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(11) The marking of the equipment shall include the following:

 II 2G Ex e IIC T6...T1 Gb



Certification department of explosion protection

D. Zitzmann

Nuremberg, 2016-06-03

Page 1 of 3

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 14 ATEX 1 473 X, Revision 1.

BUREAU VERITAS
Consumer Products Services Germany GmbH

Frankfurt, Teichstraße 18, 90411 Nürnberg, Germany
Phone: +49 40 24241-0

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Temperature Instrument

Explosion Proof Certificate - Flame Proof / Intrinsic Safety / Increased Safety / Dust Ignition Proof





(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC Type Examination Certificate Number

EPS 15 ATEX 1 817 X Revision 0

(4) Equipment: Field Junction Box B500

(5) Manufacturer: WISE Control Inc.

(6) Address: 2022 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0154.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012	EN 60079-1:2014
EN 60079-11:2012	EN 60079-31:2014
EN 60079-7:2007	

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:



II (1)2G Ex d Iab [ia/ib] IIC T5 Db
 II 2G Ex d e IIC T5 Gb
 II 2D Ex tb IIC T85°C Db IP66/IP67



D. Zitzmann

Nuremberg, November 27, 2015

Certificates without signatures are void. This certificate is allowed to be distributed only if not modified. Exports or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

EPS 15 ATEX 1 817 X Rev. 0

Page 1 / 2

BUREAU VERITAS
Consumer Products Services Germany GmbH

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Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)





(1) EC-Type Examination Certificate

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC Type Examination Certificate Number

EPS 15 ATEX 1 106 X **Revision 0**

(4) Equipment: Illuminator A250

(5) Manufacturer: WISE Control Inc.

(6) Address: 2022 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 15TH0090.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 **EN 60079-1:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

 **II 2G Ex d IIC T6 Gb**



D. Zitzmann



Certification department of explosion protection

Nuremberg, 07.12.2015

Page 1 of 2

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www.bureauveritas.de/ops

Temperature Instrument

Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e IIC Gb)



**BUREAU
VERITAS**



(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC-Type Examination Certificate Number
 EPS 13 ATEX 1 593 U Revision: 0

(4) Component: Stator Winding R.T.D R810 Series

(5) Manufacturer: WISE CONTROL INC.

(6) Address: 2022, Deogyong-Daero, Gihwang-Gu, Yongin-Si, Gyeonggi-Do, Korea

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 13TH0185.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-7:2007

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:



II 2G Ex e IIC Gb

Certification department of explosion protection Türkheim, October 25, 2013



Page 1 / 3

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Explosion Proof Certificate - Intrinsic Safety (ATEX Ex ia IIC T6...T3 Ga)

 BUREAU VERITAS		
(1) EC-Type Examination Certificate		
(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC		
(3) EC Type Examination Certificate Number:		
EPS 13 ATEX 1 585 X		Revision: 0
(4) Equipment: Stator Winding R.T.D R820 Series		
(5) Manufacturer: WISE CONTROL INC.		
(6) Address: 2022, Deogyang-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea		
(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.		
(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 13THD165.		
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:		
EN 60079-0:2012		EN 60079-11:2012
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.		
(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.		
(12) The marking of the equipment shall include the following:		
 II 1G Ex ia IIC T6...T3 Ga		Türkheim, October 26, 2013
 Certification department of explosion protection D. Zimmermann		
Page 1 of 2		
Certificates without signature are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.		

Temperature Instrument

Explosion Proof Certificate - Increased Safety (ATEX II 2G Ex e II Gb)



**BUREAU
VERITAS**



(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres:
– Directive 94/9/EC

(3) EC Type Examination Certificate Number: **EPS 12 ATEX 1 488 U** Issue No. **0**

(4) Component: **H100 Series space heater**

(5) Manufacturer: **WISE Control Inc.**

(6) Address: **2022 Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, (448-905) Korea**

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 8 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 12TH0542.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60075-0:2009 EN 60075-7:2007

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be founded with certificates issued for equipment or protective systems. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC Type Examination Certificate relates only to the design and the construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

 **II 2G Ex e II Gb**



Verification department of explosion protection

Türkheim, January 08, 2013



Page 1 / 2

Certificates without signature are void. This certificate is allowed to be distributed only if not modified.
Exacts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.
This certificate is internally administrated under the following number: 13 004

Explosion Proof Certificate - Intrinsic Safety (IECEX Ex ia IIC T6...T3 Ga/Gb)



IECEX Certificate
of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:

IECEX DEK 16.0047X

Issue No: 1

Certificate history:
Issue No. 1 (2017-12-08)
Issue No. 0 (2016-05-19)

Status:

Current

Page 1 of 4

Date of Issue:

2017-12-08

Applicant:

Wise Control Inc.
2022 Deogyong-daero, Gilheung-gu, Yongin-si, Gyeonggi-do (17097)
Korea, Republic of

Equipment:

Temperature Sensor R950 Series (ETR10)

Optional accessory:

Type of Protection:

Ex i

Marking:

Ex ia IIC T6...T3 Ga/Gb

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuler

Position:

Certification Manager

Signature:
(for printed version)



Date:

2017-12-08

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3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6525 MJ Arnhem
The Netherlands



Temperature Instrument

Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC Gb)

		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEX Scheme visit www.iecex.com			
Certificate No.:	IECEX LCIE 17.0038U	Issue No: 0	Certificate history: Issue No. 0 (2017-11-21)
Status:	Current	Page 1 of 3	
Date of Issue:	2017-11-21		
Applicant:	WISE Control Inc. 2022 Daegyeong-daero, Gyeonggi-do, Yongin-si, Gyeonggi-do, (17097) Korea, Republic of		
Equipment:	Coil end temperature detector and Bearing temperature sensor - RB40 series		
Optional accessory:			
Type of Protection:	Ex e		
Marking:	Ex e IIC Gb (Refer to attachment for full marking)		
Approval for issue on behalf of the IECEX Certification Body:	Julien GAUTHIER		
Position:	Certification Officer		
Signature: (for printed version)			
Date:			
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website .			
Certificate issued by: Laboratoire Central des Industries Electriques (LCIE) 33 Avenue du General Leclerc FR-92260 Fontenay-aux-Roses France			
			

Explosion Proof Certificate - Intrinsic Safety (IECEx Ex ia IIC T6...T3 Ga)

		IECEx Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres For rules and details of the IECEx Scheme visit www.iecex.org			
Certificate No.:	IECEx EPS 17.0034X	Issue No.:	0
Status:	Current	Certificate history:	Issue No. 0 (2017-09-01)
Date of issue:	2017-09-01	Page 1 of 4	
Applicant:	WISE CONTROL INC. 2022, Deogyuseong-daero, Gilsung-gu, Yongin-si, Gyeonggi-do, 17097, Korea Korea, Republic of		
Equipment:	Bearing Temperature Sensor RM4*		
Optional accessory:			
Type of Protection:	Is		
Marking:	Ex ia IIC T6...T3 Ga		
Approved for issue on behalf of the IECEx Certification Body:	H. Schaffer		
Position:	Certification manager		
Signature: (for printed version)			
Date:	2017-09-01		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The status and authority of this certificate may be verified by visiting the Official IECEx Website .			
Certificate issued by: Bureau Veritas Consumer Products Services Germany GmbH Bushofenpark 188 86042 Tübingen Germany			
			

Temperature Instrument

Explosion Proof Certificate - Flame Proof (IECEX Ex d IIC T6 Gb)

		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEX Scheme visit www.iecex.com			
Certificate No.:	IECEX LCIE 17.0026X	Issue No: 0	Certificate history: Issue No. 0 (2017-07-24)
Status:	Current	Page 1 of 3	
Date of Issue:	2017-07-24		
Applicant:	WISE Control Inc. 2022 Daegyoong-Gaero, Gyeonggi-Gu Yongin-Si, Gyeonggi-Do (17097) Korea, Republic of		
Equipment:	Thermocouple and resistance temperature detector, Type : RS40 series (ETR series)		
Optional accessory:			
Type of Protection:	Ex d		
Marking:	Ex d IIC T6 Gb		
Approved for issue on behalf of the IECEX	Julien Gauthier		
Certification Body:			
Position:	Certification Officer		
Signature: (for printed version)			
Date:			
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website.			
Certificate issued by: Laboratoire Central des Industries Electriques (LCIE) 33 Avenue du General Leclerc FR-92260 Fontenay-aux-Roses France 			

Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC T6...T1 Gb)

		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEX EPS 14.0043X	Issue No: 1	Certificate history: Issue No. 1 (2016-06-06) Issue No. 0 (2014-06-24)
Status:	Current	Page 1 of 4	
Date of issue:	2016-06-06		
Applicant:	WISE CONTROL INC. 2022, Deogyong-Gaero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea Korea, Republic of		
Equipment:	temperature sensor R850 Series (ETR 10 Series)		
Optional accessory:			
Type of Protection:	e		
Marking:	Ex e IIC T6...T1 Gb		
Approved for issue on behalf of the IECEx Certification Body:	Dieter Zitmann		
Position:	Head of Certification		
Signature: (for printed version)			
Date:	2016-06-06		
			
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.			
Certificate issued by: Bureau Veritas Consumer Products Services Germany GmbH Businesspark A86 98842 Türkheim Germany 			

Temperature Instrument

Explosion Proof Certificate - Flame Proof (IECEX Ex d IIC T6 Gb)

 		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEX Scheme visit www.iecex.com			
Certificate No.:	IECEX EPS 15.0081X	Issue No: 0	Certificate history: Issue No. 0 (2015-12-07)
Status:	Current	Page 1 of 3	
Date of Issue:	2015-12-07		
Applicant:	WISE Control Inc. 2022 Deogyang-deero, Gilheung-gu, Yongin-si, Gyeonggi-do Korea, Republic of		
Electrical Apparatus:	Illuminator A250		
Optional accessory:			
Type of Protection:	flameproof enclosure "d"		
Marking:	Ex d IIC T6 Gb		
Approved for issue on behalf of the IECEX Certification Body:		Dieter Zitzmann Certification Manager	
Position:			
Signature: (for printed version)			
Date:		2015-12-07	
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website .			
Certificate issued by: Bureau Veritas Consumer Products Services Germany GmbH Businesspark A90 80842 Türkheim Germany			
			

Explosion Proof Certificate - Flame Proof / Intrinsic Safety / Increased Safety / Dust Ignition Proof





(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC Type Examination Certificate Number: **EPS 15 ATEX 1 #17 X** Revision **D**

(4) Equipment: **Field Junction Box B500**

(5) Manufacturer: **WISE Control Inc.**

(6) Address: **2022 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0154.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012	EN 60079-1:2014
EN 60079-11:2012	EN 60079-31:2014
EN 60079-7:2007	

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:



II (1)G Ex d Ia/b [ia/b] IIC T6 Db

II 2G Ex d e IIC T6 Gb

II 2D Ex tb IIC T85°C Db IP66/IP67



D. Zitzmann



Certification department of explosion protection

Nuremberg, November 27, 2015

Page 1 / 2

Certificates without signatures are valid. This certificate is allowed to be distributed only if not modified.
 Erasure or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.
 EPS 15 ATEX 1 #17 X Rev. 0

BUREAU VERITAS
 Consumer Products Services Germany GmbH

Thurn und Taxis-Strasse 16, 90411 Nürnberg, Germany
 Phone: +49 (0) 910 61-0

ccs-nuernberg@bureauveritas.com
 www.bureauveritas.de/en

Temperature Instrument

Explosion Proof Certificate - Increased Safety (IECEX Ex e IIC Gb)

 		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEX Scheme visit www.iecex.com			
Certificate No.:	IECEX EPS 14.0011U	Issue No. 0:	Certificate history: Issue No. 0 (2014-02-19)
Status:	Current	Page 1 of 3	
Date of Issue:	2014-02-19		
Applicant:	WISE Control Inc. 2022, Deogyong-Daero, Gihaung-Gu, Yongin-Si, Gyeonggi-Do, (448-606) Korea, Republic of		
Electrical Apparatus:	Space heater Type H100		
Optional accessory:			
Type of Protection:	e		
Marking:	Ex e IIC Gb		
Approved for issue on behalf of the IECEX Certification Body:	Director Zitzmann Manager Certification 		
Position:			
Signature: (for printed version)			
Date:	2014-02-19		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website .			
Certificate issued by: Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 88642 Türkheim Germany 			

Explosion Proof Certificate - Increased Safety (IECEx Ex e IIC Gb)

 		IECEx Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEx EPS 13.0029U	Issue No. 0	Certificate history:
Status:	Current		
Date of Issue:	2013-11-04	Page 1 of 3	
Applicant:	WISE CONTROL, INC. 2022, Daogyang-Daero, Gheung-Gu, Yongin-Si, Gyeonggi-Do, Korea Korea, Republic of		
Electrical Apparatus:	Stator Winding R.T.D R810 Series		
Optional accessory:			
Type of Protection:	e		
Marking:	Ex e IIC Gb		
Approved for issue on behalf of the IECEx Certification Body:	Dieter Zitzmann Head of Certification		
Position:			
Signature: (for printed version)			
Date:	2013.11.04		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.			
Certificate issued by:			
Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86642 Türkheim Germany			

Temperature Instrument

Explosion Proof Certificate - Intrinsic Safety (IECEx Ex ia IIC T6...T3 Ga)

 IECEx Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEx EPS 13.0032X Issue No.: 0 Certificate History:
Status:	Current
Date of Issue:	2013-11-04 Page 1 of 3
Applicant:	WISE CONTROL INC. 2022, Deogyong-Daero, Gihung-Gu, Yongin-Si, Gyeonggi-Do Korea, Republic of
Electrical Apparatus:	Stator Winding R.T.D R820 Series
Optional accessory:	
Type of Protection:	ia
Marking:	Ex ia IIC T6...T3 Ga
Approved for issue on behalf of the IECEx Certification Body:	Dieter Zitzmann Head of Certification
Signature: (for printed version)	
Date:	2013-11-4
1. This certificate and schedule may only be reproduced in full 2. This certificate is not transferable and remains the property of the issuing body 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.	
Certificate issued by: Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86042 Türkheim Germany	

Canadian Registration Number - Pressure Equipment Safety



9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

July 30, 2013

Attention: Mr. CH LEE
WISE CONTROL INC
199 SANGGAL-DONG GIHEUNG-GU
YONGIN-SIM
GYEONGGI-DO,

The design submission, tracking number 2013-02496, originally received on April 12, 2013 was surveyed and accepted for registration as follows:

CRN : 0F13241.2 Accepted on: July 30, 2013

Reg Type: Addition to Acc: Fitting Expiry Date: April 12, 2023

Drawing No. : SOR-TW-REV.0 DATED 14.02.2013 Rev 0

Fitting type: 1/2" TO 2" THERMOWELLS

The registration is conditional on your compliance with the following notes:

This registration covers the thermowells listed in document SOR-TW-Rev.0.

The registration is given based on the understanding that the flanged type thermowells are completed with flanges of the same dimensions and materials as per the ASME B16.5 Standard.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

ONSHCHENKO, TETYANA, P. Eng.

Temperature Instrument

Explosion Proof Certificate - Intrinsic Safety / Increased Safety

ТАМОЖЕННЫЙ СОЮЗ	
3 ПРИЛОЖЕНИЕ	
К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-KR.AB72.B.01861	
Серия RU № 0258946	
Сведения по сертификату соответствия	
потенциал, не менее минимальных значений, установленных в ГОСТ Р МЭК 60079-7-2012. Терморезисторы R810 являются Ex-компонентами и применяются в комплексе с барьером искробезопасности. Терморезисторы модели R820 являются простым электрооборудованием в соответствии с ГОСТ Р МЭК 60079-11-2012. искробезопасное исполнение обеспечивается конструкцией терморезистора и соответствующим подключением к электрической цепи через барьер искрозащиты. Значения путей утечек и электрических зазоров соответствуют ГОСТ Р МЭК 60079-11-2012. Электрические параметры искробезопасных цепей соответствуют требованиям для электрооборудования подгруппы ПС.	
4 Маркировка Маркировка нанесена на изделии и включает следующие данные: - знак предприятия – изготовителя; - наименование и тип изделия; - порядковый номер в системе нумерации предприятия – изготовителя и год выпуска; - электрические параметры (напряжение, мощность, частота); - температура окружающей среды нагревательного элемента H100 минус 40°C ≤ Tamb ≤ +70 °C (температура окружающей среды Tamb терморезисторов указывается в эксплуатационной документации) - знак обращения на рынке; - знак взрывобезопасности; - маркировку взрывозащиты; - номер сертификата соответствия;	
5 Специальные условия безопасного применения оборудования: Элементы нагревательные, модели H100 являются компонентом комплекса, недопустимо использование без регулирующего устройства и дополнительного защитного устройства отключения. Подключение терморезисторов моделей R810, R820 к внешним цепям должно осуществляться через искробезопасные барьеры с соответствующими искробезопасными параметрами, имеющими действующие сертификаты соответствия требованиям ТР ТС 012/2011. Установка, подключение, эксплуатация, техническое обслуживание, и отключение изделий должно производиться в соответствии с технической документацией изготовителя. Ремонт и регулировка на месте эксплуатации не допускаются Замена, отключение и подключение изделий должны осуществляться при выключенном питании. Во время установки необходимо убедиться, что изоляция не повреждена. Необходимо беречь изделия от механических нагрузок и изгибающих нагрузок; Температурный класс в маркировке взрывозащиты терморезистора модели R820 должен выбираться исходя из максимальной температуры окружающей среды, указанной в эксплуатационной документации.	
 М.П.	Руководитель (уполномоченное лицо) органа по сертификации Эксперт (эксперт-аудитор) Эксперты (эксперты-аудиторы)
Г.М. Буракшаева В.А. Казакова	Г.М. Буракшаева В.А. Казакова

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




No. 2016-029299-01

안전인증서

Certificate of Safety

WISE Control Inc.
2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Rep. of Korea

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 34 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 4 of Article 58-4 of ENFORCEMENT ORDINANCE of the same ACT.

Electrical Equipment
Explosion proof type Indicating Pressure Switch

Model(Marking) / Certificate No.
P981, P982(Ex d IIC T6) / 16-KA2BO-0323X

Applied standards
Announcement No. 2013-54 of Ministry of Employment and Labor

Conditions of Certification

- 1. Manufacturing location(s):** This certificate is valid only for the specified products produced at 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Rep. of Korea.
- 2. Description of equipment:**
 -The pressure transmitter is used to measure fluid pressure and provides external contact.
 -Ambient temperature and process temperature: $-20\text{ }^{\circ}\text{C} \leq T_a \leq +65\text{ }^{\circ}\text{C}$
 -Maximum fluid temperature: $+100\text{ }^{\circ}\text{C}$
- 3. Scope of certification:** This certificate is only valid for below the contact capacities.
 -Micro contact type
 -Resistance load: 125 Vac / 5 A, 250 V / 3 A, 30 Vdc / 4 A, 125 Vdc / 0.4 A
 -Inductive load: 125 Vac / 3 A, 250 V / 2 A, 30 Vdc / 3 A, 125 Vdc / 0.05 A
 -Electrical contact type
 -250 Vac / 1.0 A
- 4. Special conditions for safe use**
IEC 60079-26 shall be applied to install in the zone boundary of hazardous area.
- 5. Details of certificate changes:** None
- 6. Details of the others**
 -This certificate shall be used with the related user manual.
 -Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.

Date of issue: 2016-06-08



한국산업기술시험원장
KOREA TESTING LABORATORY

산업안전보건법 시행규칙 [별지 제10호의6제시] (08089) 서울특별시 구로구 디지털로 25길 87(구로동) <http://www.ktl.or.kr>
(52852) 경상남도 진주시 홍의로 10(홍무공동)

Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




제2016-009878-01호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목 Head mounting type temperature transmitter
형식·모델(용량·등급) / 인증번호 R911(Ex d IIC T6) / 16-KA2B0-0236
인 증 기 준 고용노동부고시 제2013-54호
인 증 조 건

- 제조공장**
본 인증서는 경기도 용인시 기흥구 덕영대로 2022에서 생산하는 제품에 한함.
- 제품개요**
·제품장력: 24 Vdc, 4 ~ 20 mA
·주위온도: -40 ℃ ≤ T_a ≤ +65 ℃
·트랜스미터 형식: T900
- 인증범위**: 본 인증서는 위의 형식번호에 한하여 유효함.
- 안전한 사용을 위한 조건**: 없음.
- 인증(변경)사항**: 없음.
- 그 밖의 사항**
·사용자 매뉴얼 참조
·안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수

2016 년 3 월 28 일

한국산업기술시험원장



산업안전보건법, 시행규칙 [별지 제10호의6제4식] (08389) 서울시 구로구 디지털로 26길 87(구로동) http://www.kitri.re.kr
 (52852) 경상남도 진주시 충의로 10(충무공동)

Explosion Proof Certificate - Flame Proof (Ex d IIC T6)




제2016-009879-01호

안 전 인 증 서

(주)와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목 Head mounting type temperature transmitter
형식·모델(용량·등급) / 인증번호 R912(Ex d IIC T6) / 16-KA2BO-0235
인 증 기 준 고용노동부고시 제2013-54호
인 증 조 건

- 제조공장**
본 인증서는 경기도 용인시 기흥구 덕영대로 2022에서 생산하는 제품에 한함.
- 제품개요**
 제품형식: 24 Vdc, 4 ~ 20 mA
 작동온도: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$
 트랜스미터 방식: T990
- 인증범위** 본 인증서는 위의 형식번호에 한하여 유효함.
- 안전한 사용을 위한 조건** 없음.
- 인증(변경)사항** 없음.
- 그 밖의 사항**
 사용자 매뉴얼 참조
 안전인증품의 품질관리, 확인검사 수급, 변경사항 신고 등 인증·별단 자의 의무 준수

2016 년 3 월 28 일



한국산업기술시험원장

산업안전보건법·시행규칙 [별지 제16호의6서식] (06389) 서울시 구로구 디지털로 28길 6(구로동) <http://www.ktl.co.kr>
(52852) 경상남도 진주시 충의로 1(충무공동)

Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)



제16-0178호

안 전 인 증 서

㈜와이즈 산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

———— 품 목 ————

Ultrasonic Gas Flow Meters

———— 형식 · 모델 / 용량 · 등급 / 인증번호 ————

형식·모델	용량 · 등급	인증번호
U111K	16~30 VDC, 15W Ex d IIC T6	16-GA2B0-0178

———— 인 증 기 준 ————

방호장치 위주안전인증 고시(고용노동부고시 제2013-54호)

———— 인 증 조 건 ————

-40℃ ≤ Tamb ≤ +60℃, 헛면 사용조건 참조

2016 년 03 월 23 일

한국가스안전공사 사장



Explosion Proof Certificate - Flame Proof (Ex de IIC T6 IP67)

제16-0297호

안전인증서

[주]와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

————— 품 목 —————

Metallic protection tube Thermocouple and RTD

————— 형식 · 모델 / 용량 · 등급 / 인증번호 —————

형식·모델	용량 · 등급	인증번호
R960 Series	뒷면 참조 Ex de IIC T6	16-GA2BO-0297

————— 인 증 기 준 —————

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

————— 인 증 조 건 —————

뒷면 참조

2016 년 04 월 07 일

한국가스안전공사 사장

한국가스안전공사

Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)

제 16-0296 호

안 전 인 증 서

[주]와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

— 품 목 —

Non-metallic protection tube Thermocouple

— 형식 · 모델 / 용량 · 등급 / 인증번호 —

형식·모델	용량 · 등급	인증번호
R970 Series	- Resistance: 0.4~40 ohm/m - Voltage: 0~80 mV Ex d IIC T6	16-GA2BO-0296

— 인 증 기 준 —

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

— 인 증 조 건 —

뒷면 참조

2016 년 04 월 07 일

한국가스안전공사 사장

한국가스안전공사

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T3)



제15-0544호

안 전 인 증 서

[주]와이즈산전

경기 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 실시 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

품 목

Stator Winding R.T.D

형식·모델 / 용량·등급 / 인증번호

형식·모델	용량·등급	인증번호
R820 Series	U=30V, I=5.0mA, P=0.15W Ex ia IIC T6...T3	15-GA2BO-0544X

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

인 증 조 건

-40℃<Ta<+80℃(T6); -40℃<Ta<+95℃(T3); -40℃<Ta<+130℃(T4); -40℃<Ta<+180℃(T3)
(뒷면 참조)

2015 년 08 월 06 일

한국가스안전공사 사장

K O G A S A N J E O N



Temperature Instrument

Explosion Proof Certificate - Increased Safety (Ex e IIC T6...T1)



No. 2015 - 0307

Safety Certificate

· Manufacturer **WISE Control Inc.**
 · Address **2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea**

The following product fabricated by the above manufacturer has been certified for the use of the Safety Certification Mark as the product was assessed and tested in accordance with the article 34 of the Occupational Safety & Health Act and the article 58 (4) 4 of the Enforcement Rule thereof.

· Product	Temperature Sensor
· Type(Model)	ETR10 Series
· Rating	Max. DC 30 V, Max. 100 mA
· Type of Protection	Ex e IIC T6...T1
· Certification No.	15-GA2BO-0307X
· Safety Certification Standards	Notification of Protective device Mandatory Safety Certification (Notice of Ministry of Employment and of Labor No. 2015-54)
· Certification condition	1. Tamb = -40℃ ~ +65℃ 2. End user must use certification cable gland.
· Date of issue	April 24th, 2015

Approved for issue on behalf of the president : **Gi-Hoi, Kim**
 position : **General Manager**

Signature 김기호


Korea Gas Safety Corporation



Explosion Proof Certificate - Increased Safety (Ex e IIC Gb)



제15-0036호

안 전 인 증 서

[주]와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 신청하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

품 목

Stator Winding R.T.D

형식·모델 / 용량·등급 / 인증번호

형식·모델	용량·등급	인증번호
R810 Series	0.2 - 5 mA, 30 V 미만	15-GA2B0-0036U
	Ex e IIC Gb	

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

인 증 조 건

맞은 인증 조건 참조

2015.년 01 월 16 일

한국가스안전공사 사장



Temperature Instrument

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6...T1 Ga/Gb)

	
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY	
Cert NO.GYJ15.1316X	
This is to certify that the product	
	Inductive Contact Type Diaphragm Pressure Gauge
manufactured by	WISE Control Inc. (Address: 2012 DEOGYEONG-DAERO GIBEUNG-GU, YONGIN-SI, GYEONGGI-DO, KOREA)
which model is	P50 Series
Ex marking	Ex ia IIC T6 Ga
product standard	/
drawing number	P50X-2
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010, GB 3836.4-2010, GB 3836.20-2010	
This Approval shall remain in force until 2020.11.04	
Remarks	1. Conditions for safe use are specified in the attachment(s) to this certificate. 2. Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate. 3. Model designation is specified in the attachment(s) to this certificate. 4. Intrinsic safety parameters specified in the attachment(s) to this certificate.
Director 	
National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation	
Issued Date 2015.11.05	
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.	
103 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepsi.org.cn
	Tel: +86 21 64368180 Fax: +86 21 64844580
E: 96105	

Explosion Proof Certificate - Increased Safety (Ex e IIC T6...T1 Gb)



EXPLOSION PROTECTION
CERTIFICATE OF CONFORMITY

Cert NO.GYJ17.1142

This is to certify that the product

Temperature Detector

manufactured by **WISE Control Inc.**
(Address:2022 DEOGYEONG-DAERO, GIHEUNG-GU, YONGIN-SI,
GYEONGGI-DO, KOREA)

which model is **R95 Series**

Ex marking **Ex e IIC T1~T6 Gb**

product standard /

drawing number **ETR 10-1~ETR 10-5**

has been inspected and certified by NEPSI, and that it conforms
to **GB 3836.1-2010,GB 3836.3-2010**

This Approval shall remain in force until **2022.04.12**

Remarks 1.Conditions for safe use are specified in the attachment(s) to this certificate.
2.Model designation is specified in the attachment(s) to this certificate.

Director 

**National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation**

Issued Date **2017.04.13**

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

103 Cao Bao Road
Shanghai 200233, China

<http://www.nepsi.org.cn>
Email: info@nepsi.org.cn

Tel: +86 21 64368180
Fax: +86 21 64844580

Edition 05

Pressure & Temperature Instrument

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6)

제 2014-BO-0272-1 호



안 전 인 증 서

(주) 와이즈산전

경기도 용인시 기흥구 덕영대로 2022(상갈동)

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

INDUCTIVE CONTACTS TYPE PRESSURE GAGUE

형식·모델/용량·등급/인증번호

형식·모델 P5**/P69*/T5** 인증번호 14-AV2BO-0272X

용량·등급 Ex ia IIC T6

Dial φ100: Ui=10 V, Ii=25 mA, Pi=34 mW, Ci=30 nF, Li=100 μH
Dial φ160: Ui=10 V, Ii=25 mA, Pi=34 mW, Ci=50 nF, Li=250 μH
(*:방폭실능에 무관함)

인 증 기 준

방호장치 안전인증 고시(고용노동부고시 제2016-54호)

인 증 조 건

정전기발생 주의하고 젖은 행렬을 사용하여 닦을 것

2014.05.27 최초 교부
2017.07.03 재발행

2017년 07월 03일

한국산업안전보건공단 이사장



Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)



 한국산업기술시험원

Korea Testing Laboratory



제2016-058377-01호

안 전 인 증 서

㈜와이즈산전
경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목 Flameproof switch	형식·모델(용량·등급) / 인증번호 P953, P970, T953(Ex d IIC T6) / 16-KA2B0-0544
인 증 기 준 고등노동부고시 제2013-54호	인 증 조 건

1. 제조공장
경기도 용인시 기흥구 덕영대로 2022에서 생산하는 제품에 한함.
2. 제품개요
· 할루마늄 다이캐스팅 내압방폭형으로 구성된 압력스위치(P953), 차압스위치(P970), 온도스위치(T953)임.
· 정격: (125 Vdc / 250 Vdc, 15 A), (125 Vdc, 0.4 A), (250 Vdc, 0.2 A)
· 사용주위온도: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$
3. 인증범위
본 인증서는 위의 형식번호에 한하여 유효함.
4. 안전한 사용을 위한 조건
없음.
5. 인증(변경)사항
없음.
6. 그 밖의 사항
· 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
· 본 안전인증서는 반드시 관련 IECEx 인증서(IECEX LCIE 15.0052 Issue No.0)와 함께 사용

2016 년 11 월 14 일



한국산업기술시험원장

산업안전보건법 시행규칙 [별지 제10호의6제4항]

(08389) 서울특별시 구로구 디지털로 28길 8(구로동) <http://www.ktl.re.kr>
 (02832) 경기도 성남시 분당구 처분로 10(중무공동)

Pressure & Temperature Instrument

Explosion Proof Certificate - Flame Proof (IECEX Ex d IIC T6 Gb)

 		IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEX LCIE 15.0052	Issue No.:	01
Status:	Current	Certificate history:	
Date of Issue:	2016-08-01	Page 1 of 3	
Applicant:	WISE Control Inc. 2022 Daogyong-daero, Gilheung-gu, Yongin-si, Gyeonggi-do (17097) Korea, Republic of		
Equipment:	Flameproof switch (953 series) Optional accessory: Pressure switch (P953), Differential pressure switch (P970), Temperature switch (T953)		
Type of Protection:	Ex d		
Marking:	Ex d IIC T6 Gb		
Approved for issue on behalf of the IECEx:	Marie-Elisabeth d'Ornano		
Certification Body:	Certification Director		
Signature* (for printed version):			
Date:	2016-08-01		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.			
Certificate issued by: Laboratoire Central des Industries Electriques (LCIE) 33 Avenue du General Leclerc FR-92260 Fontenay-aux-Roses France			
Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".			
			

Explosion Proof Certificate - Flame Proof (ATEX Ex d IIC T6 Gb)

		ATTESTATION D'EXAMEN UE DE TYPE EU TYPE EXAMINATION CERTIFICATE			
1 Version : 03		LCIE 06 ATEX 6073 X		Issue : 03	
Directive 2014/34/UE Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles		Equipment or Protective System Intended for use in Potentially Explosive Atmospheres		Directive 2014/34/EU Intended for use in	
3 PRODUIT : Interrupteur antidéflagrant (série 953)		PRODUCT : Flameproof switch (953 series)			
Type: Pressostat / Pressure switch : P953 Pressostat différentiel / Differential pressure switch : P976 Thermostat / Temperature switch : T953					
4 Fabricant :		Manufacturer :			
5 Adresse :		Address :			
2022 Deogyong-Daero, Giheung-Gu Yongin-Si, Gyeonggi-Do, (17097) Korea					
6 Ce produit et ses variantes éventuelles acceptées sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités en référence.		This product any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.			
7 La LCIE, Organisme Notifié sous la référence 0081 conformément à l'article 17 de la directive 2014/34/UE du Parlement européen et du Conseil du 26 février 2014, certifie que ce produit est conforme aux Exigences Essentielles de Sécurité et de Santé pour la conception et la construction de produits destinés à être utilisés en atmosphères explosibles, données dans l'annexe II de la Directive. Les résultats des vérifications et essais figurent dans le(s) rapport(s) confidentiel(s) N° : N° 60044351-544327-02 ; 107065-812538 ; 123618-648102-02 ; 141626-665285		LCIE, Notified Body number 0081 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 certifies that product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential report(s) N°: N° 60044351-544327-02 ; 107065-812538 ; 123618-648102-02 ; 141626-665285			
8 Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par la conformité à : EN 60079-0:2012 +A11:2013 EN 60079-1:2007		Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012 +A11:2013 EN 60079-1:2007			
9 Le signe « X » lorsqu'il est placé à la suite du numéro de l'attestation, indique que cet appareil est soumis aux conditions particulières d'utilisation, mentionnées dans l'annexe de cette attestation.		If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.			
10 Cette Attestation d'Examen UE de Type concerne uniquement la conception et la construction du produit spécifié. Des exigences supplémentaires de la directive sont applicables pour la fabrication et la fourniture du produit. Ces dernières ne sont pas couvertes par la présente attestation.		This EU Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.			
11 Le marquage du produit est mentionné dans l'annexe de cette attestation.		The marking of the product is specified in the schedule to this certificate.			
Fontenay-aux-Roses, le 15 juin 2016		Responsable de Certification Certification Officer Julien Gauthier			
Seul le texte en français peut engager la responsabilité de LCIE. Ce document ne peut être reproduit que dans son intégralité, sans aucune modification. Il est établi en accord avec le référentiel de certification ATEX de LCIE. The LCIE's liability applies only on the French text. This document may only be reproduced in its entirety and without any change. It is issued in accordance with LCIE's ATEX Certification Rules. CERT-ATES-H00M-06 Rev. 02					
LCIE Collaborative Control des Équipements Electriques Une 394018-88 Bureau, Veritas.		33 Avenue du Picotier Leston 92242 Fontenay-aux-Roses FRANCE		WWW.LCIE.FR	

Pressure & Temperature Instrument

Explosion Proof Certificate - Constructional Safety (ATEX Ex II GD c IIC TX)



**BUREAU
VERITAS**

(1) EC-Certificate of Conformity 

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC-Certificate of Conformity Number: **EPS 14 ATEX 2 648 X** Revision: 0

(4) Equipment: Pressure Gauge Type: P200-Series, P330, P335, P336, P338, P400-Series, P700-Series, P800-Series; Temperature Gauge T100-Series, T200-Series

(5) Manufacturer: **WISE CONTROL INC.**

(6) Address: **2022, Deogyong-Daero, Gyeong-Gu, Yongin-Si, Gyeonggi-Do, Korea**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies, based on a voluntary testing, that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0057.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 13463-1:2009 EN 13463-5:2011

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:



II GD c IIC TX

Certification department of explosion protection Türkheim, April 11, 2014



D. Zitzmann





Page 1 / 2

Certificates without signature are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 14 ATEX 2 648 X.

Explosion Proof Certificate - Constructional Safety (ATEX Ex II GD c IIB TX)


**BUREAU
VERITAS**

(1) EC-Certificate of Conformity 

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) EC-Certificate of Conformity Number: **EPS 14 ATEX 2 651 X** Revision: 1

(4) Equipment: Pressure Gauge Type: P359
Temperature Gauge Type: T359

(5) Manufacturer: **WISE CONTROL INC.**

(6) Address: **2022, Deogyong-Daero, Gihwang-Gu, Yongin-Si, Gyeonggi-Do, Korea**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies, based on a voluntary testing, that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0057.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 13463-1:2009 EN 13463-3:2011

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

 **II GD c IIB TX**

Certification department of explosion protection Türkheim, May 02, 2014


D. Ziemann



Page 1/2

Certificates without signature are void. This certificate is allowed to be distributed only if not modified.
Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.
EPS 14 ATEX 2 651 X Rev.1

Pressure & Temperature Instrument

3-A Symbol Certificate

ISSUE DATE: January 30, 2006

CERTIFICATE AUTHORIZATION NUMBER: 1400



THIS IS TO CERTIFY THAT

WISE Control Inc.

2022 Deogyong-Daero, Giheung-Gu, Yongin-Si 446-905, Republic of Korea

is hereby authorized to continue to apply the
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 74-06

74-06 (Sensors and Sensor Fittings and Connections)

set forth below

GIP Models: Pressure Transmitter Model P426, Sizes: 3/4 in. to 2 in.; Pressure Transmitter Model P427, Size: 3/4 in.; Pressure Gauge Model P752S, Sizes: 3/4 in. to 2 in.; Pressure Gauge Model P753S, Size: 3/4 in.; RTD Models R231 and R232, Sizes: 1 in. to 2 in.; Thermometer Model T123, Sizes: 1 in. to 2 in.; Thermowell Model A603, Sizes: 1 in. to 2 in.

VALID THROUGH: **December 31, 2019**

Timothy R. Rugh
Executive Director
3-A Sanitary Standards, Inc.

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPV INSPECTION/REPORT DUE: **February 2021**

GOST-Pattern Approval - Pressure Gauge


ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.30.004.A № 58073

Срок действия до 27 февраля 2020 г.
НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Манометры деформационные с трубчатой пружиной серии Р
ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея
РЕГИСТРАЦИОННЫЙ № 60046-15
ДОКУМЕНТ НА ПОВЕРКУ
МИ 2124-90
ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ **2 года**

Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 27 февраля 2015 г. № 236
Описание типа средств измерений является обязательным приложением к настоящему свидетельству.



Заместитель Руководителя
Федерального агентства

С.С.Голубев
"11.03" 2015 г.

Серия СИ

№ 019508

Pressure & Temperature Instrument

GOST-Pattern Approval - Pressure Gauge (Diaphragm Type)



The certificate is a rectangular document with a light blue background and a decorative blue border. At the top center is the Russian coat of arms. Below it, the text reads: "ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ". The main title "СВИДЕТЕЛЬСТВО" is in large, bold, blue letters, followed by "об утверждении типа средств измерений" in smaller black letters. The registration number "KR.C.30.004.A № 58072" is centered. The validity period "Срок действия до 27 февраля 2020 г." is on the left. The instrument name "НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ Манометры деформационные мембранные серии Р" is on the left. The manufacturer "ИЗГОТОВИТЕЛЬ Фирма 'WISE Control Inc.', Корея" is on the left. The registration number "РЕГИСТРАЦИОННЫЙ № 60045-15" is on the left. The document type "ДОКУМЕНТ НА ПОВЕРКУ МИ 2124-90" is on the left. The interval "ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года" is on the left. The approval details "Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 27 февраля 2015 г. № 236" and "Описание типа средств измерений является обязательным приложением к настоящему свидетельству." are on the left. The signature of the Deputy Head of the Federal Agency is on the right, with the name "С.С.Голубев" printed below it. The date "14.03 2015 г." is on the right. The serial number "Серия СИ" is at the bottom left, and the number "№ 019348" is at the bottom right.

ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.30.004.A № 58072

Срок действия до 27 февраля 2020 г.

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Манометры деформационные мембранные серии Р

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № 60045-15

ДОКУМЕНТ НА ПОВЕРКУ
МИ 2124-90

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года

Тип средств измерений утвержден приказом Федерального агентства по
техническому регулированию и метрологии от 27 февраля 2015 г. № 236

Описание типа средств измерений является обязательным приложением
к настоящему свидетельству.

Заместитель Руководителя
Федерального агентства

С.С.Голубев

14.03 2015 г.

Серия СИ

№ 019348

GOST-Pattern Approval - Differential Pressure Gauge


ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.30.004.A № 58071

Срок действия до 27 февраля 2020 г.

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Манометры дифференциальные Р620, Р640, Р660, Р670, Р680, Р690

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № 60044-15

ДОКУМЕНТ НА ПОВЕРКУ
ГОСТ 8.146-75

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года

Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 27 февраля 2015 г. № 236

Описание типа средств измерений является обязательным приложением к настоящему свидетельству.



Заместитель Руководителя
Федерального агентства

С.С.Голубев

" 14 " 03 2015 г.

Серия СИ

№ 019347

Pressure & Temperature Instrument

GOST-Pattern Approval - Temperature Gauge (T100)



The certificate is a rectangular document with a light pink background and a decorative blue border. At the top center is the Russian coat of arms. Below it, the text reads: "ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ". The main title "СВИДЕТЕЛЬСТВО" is in large, bold, blue letters. Below the title is the subtitle "об утверждении типа средств измерений". The registration number "KR.C.32.004.A № 57680" is printed in black. The validity period "Срок действия до 23 января 2020 г." is printed in black. The name of the type of measuring instrument "НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ Термометры биметаллические T110, T120, T140, T190, T191" is printed in black. The manufacturer "ИЗГОТОВИТЕЛЬ Фирма 'WISE Control Inc.', Корея" is printed in black. The registration number "РЕГИСТРАЦИОННЫЙ № 59702-15" is printed in black. The document number "ДОКУМЕНТ НА ПОВЕРКУ МП 59702-15" is printed in black. The interval between verifications "ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года" is printed in black. The text "Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 23 января 2015 г. № 69" is printed in black. The text "Описание типа средств измерений является обязательным приложением к настоящему свидетельству." is printed in black. The signature of the Deputy Head of the Federal Agency is written in blue ink. The name "Ф.В. Булыгин" is printed in black. The date "2015 г." is printed in black. The serial number "Серия СИ" is printed in black. The number "№ 018679" is printed in black.

ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.32.004.A № 57680

Срок действия до 23 января 2020 г.

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Термометры биметаллические T110, T120, T140, T190, T191

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № 59702-15

ДОКУМЕНТ НА ПОВЕРКУ
МП 59702-15

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года

Тип средств измерений утвержден приказом Федерального агентства по
техническому регулированию и метрологии от 23 января 2015 г. № 69

Описание типа средств измерений является обязательным приложением
к настоящему свидетельству.

Заместитель Руководителя
Федерального агентства

Ф.В. Булыгин

2015 г.

Серия СИ

№ 018679

GOST-Pattern Approval - Resistance Temperature Detector


ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО

об утверждении типа средств измерений

KR.C.32.004.A № 57401

Срок действия до **19 декабря 2019 г.**

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Термопреобразователи сопротивления платиновые серии R

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № **59444-14**

ДОКУМЕНТ НА ПОВЕРКУ
ГОСТ 8.461-2009

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ **2 года;**
ТС модификации R810, R820, R830 подлежат первичной поверке до ввода в эксплуатацию

Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от **19 декабря 2014 г. № 2071**

Описание типа средств измерений является обязательным приложением к настоящему свидетельству.

Заместитель Руководителя
Федерального агентства


Ф.В. Булагин
....., 2014 г.



Серия СИ

№ **018263**

Pressure & Temperature Instrument

GOST-Pattern Approval - Temperature Gauge (T200)



ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.32.004.A № 57402

Срок действия до 19 декабря 2019 г.

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Термометры манометрические серии Т

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № 59445-14

ДОКУМЕНТ НА ПОВЕРКУ
ГОСТ 8.305-78

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года

Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 19 декабря 2014 г. № 2071

Описание типа средств измерений является обязательным приложением к настоящему свидетельству.

Заместитель Руководителя
Федерального агентства

Ф.В.Будыгин

№ 30 12 2014 г.

Серия СИ

№ 018264

GOST-Pattern Approval - Thermocouple


ФЕДЕРАЛЬНОЕ АГЕНТСТВО
ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СВИДЕТЕЛЬСТВО
об утверждении типа средств измерений

KR.C.32.004.A № 57403

Срок действия до 19 декабря 2019 г.

НАИМЕНОВАНИЕ ТИПА СРЕДСТВ ИЗМЕРЕНИЙ
Преобразователи термоэлектрические серии R

ИЗГОТОВИТЕЛЬ
Фирма "WISE Control Inc.", Корея

РЕГИСТРАЦИОННЫЙ № 59446-14

ДОКУМЕНТЫ НА ПОВЕРКУ
ГОСТ 8.338-2002 и МИ 3090-2007

ИНТЕРВАЛ МЕЖДУ ПОВЕРКАМИ 2 года; 1 год - для ТП с НСХ "R"; "S"; "B"

Тип средств измерений утвержден приказом Федерального агентства по техническому регулированию и метрологии от 19 декабря 2014 г. № 2071

Описание типа средств измерений является обязательным приложением к настоящему свидетельству.

Заместитель Руководителя
Федерального агентства

Ф.В.Булыгин

№ 304 14 2014 г.



Серия СИ

№ 018265

Pressure & Temperature Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 Gb)

		
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY		
Cert NO.GYJ17.1084X		
This is to certify that the product		
	Temperature Switch	
manufactured by	WISE Control Inc. (Address: 2021 DEOGYEONG-DAERO, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, KOREA)	
which model is	T953 Series	
Ex marking	Ex d IIC T6 Gb	
product standard	/	
drawing number	953, 953-P.D.T.	
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010, GB 3836.2-2010		
This Approval shall remain in force until 2022.03.09		
Remarks	1. Conditions for safe use are specified in the attachment(s) to this certificate. 2. Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate. 3. Model designation is specified in the attachment(s) to this certificate.	
Director 		
National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation		
Issued Date 2017.03.10		
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.		
103 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepsi.org.cn	Tel: +86 21 64368160 Fax: +86 21 64344580
Edition 05		

Explosion Proof Certificate - Intrinsic Safety (Ex ia IIC T6 Ga)



EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert NO.GYJ15.1315X

This is to certify that the product

Inductive Contact Type Differential Pressure Gauge

manufactured by **WISE Control Inc.**
(Address: 2022 DEDONG-BAERO, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, KOREA)

which model is **P69 Series**

Ex marking **Ex ia IIC T6 Ga**

product standard /

drawing number **P690**

has been inspected and certified by NEPSI, and that it conforms
to GB 3836.1-2010, GB 3836.4-2010, GB 3836.20-2010

This Approval shall remain in force until **2020.11.04**

Remarks

1. Conditions for safe use are specified in the attachment(s) to this certificate.
2. Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
3. Model designation is specified in the attachment(s) to this certificate.
4. Intrinsic safety parameters specified in the attachment(s) to this certificate.

Director 

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date: **2015.11.05**

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

103 Cao Bao Road
Shanghai 200233, China

<https://www.nepsi.org.cn>
Email: info@nepi.org.cn

Tel: +86 21 64368180
Fax: +86 21 64844580

Edition 05

Pressure, Temperature, Flow & Level Instrument

Pressure Equipment Directive(2014/68/EU) Annex III Module H



CERTIFICATE

**Conformity based on full quality assurance
according to directive 2014/68/EU**

Certificate No.: 07/202/9160/Z/0608/17/D/009

Name and address of manufacturer: **WISE CONTROL Inc.**
2022, Deogyong-daero, Giheung-gu, Yongin-si,
Gyeonggi-do, Korea

We hereby certify that the manufacturer has established a **quality system** for the manufacturing of pressure equipment according to directive 2014/68/EU. The manufacturer is entitled to mark the pressure equipment produced within the range of the quality system with the following mark:

CE 0045

Tested according to 2014/68/EU: Audit report No.: Range of products: Place of manufacture: This certificate is valid until: Hamburg, 28.04. 2017 Annex 1: detail certification scope Region: Technizentrum	Module H 9160/P/0608/17/D/009 Design and Manufacturing of Pressure instrument, Pressure gauge accessory, Flow element and Level instrument. (Detail of the scope is mentioned in the annex of the certificate) 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea 04/2020  Notified Body (0045) for pressure equipment Dipl.-Ing. Arne Wilt TUV NORD Systems GmbH & Co. KG, Große Rohnstraße 31, D-22525 Hamburg Mitglied der  CONFEDERATION EUROPEENNE D'ORGANISMES DE CERTIFICATION
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Tel. +49-(0) 40 3557 2005
Fax +49-(0) 40 3557 3197
e-mail awilt@tuv-nord.de

S:_QA-System-erg Res- DGT 18

TRCU (Technical Regulation of Customs Union)

ТАМОЖЕННЫЙ СОЮЗ						
СЕРТИФИКАТ СООТВЕТСТВИЯ						
№ TC RU C-KR-AB24.B.05044						
Серия RU	№ 0477858					
ОРГАН ПО СЕРТИФИКАЦИИ продукция Общества с ограниченной ответственностью «Сертификация продукции «СТАНДАРТ-ТЕСТ», Место нахождения: 121471, Россия, город Москва, Можайское шоссе, дом 29. Адреса места осуществления деятельности: 121359, Россия, город Москва, улица Маршала Тимашева, дом 4, офис 1; 115280, Россия, город Москва, улица Ленинская Слобода, дом 21, корпус 1. Телефоны: +74959891248, +74957415932. Адрес электронной почты: info@standart-test.ru. Аттестат аккредитации регистрационный № RA.RU.11AB24 выдан 17.06.2010 года. ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью «НТА-Пром», Место нахождения: 117246, Россия, город Москва, Научный проезд, дом 8, строение 1. Основной государственный регистрационный номер: 1085003005647. Телефон: +7495-363-63-00, адрес электронной почты: info@nta-prom.ru ИЗГОТОВИТЕЛЬ «WISE CONTROL INC.», Место нахождения: Корея, Республика, 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 446-905. Филиалы изготовителя продукции согласно приложению (бланк № 0349074). ПРОДУКЦИЯ Диафрагмы (сужающие устройства) работающие под избыточным давлением, 3 категории опасности, предназначенные для газов и жидкостей и используемые для рабочих сред группы 1, моделей F100, F200, F300, F400, F500, F510. Серийный выпуск. Продукция изготовлена в соответствии с Директивой 97/23/ЕС "Оборудование, работающее под давлением". КОД ТН ВЭД ТС (ЕАЭС) 9026900000 СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением" СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ протокола испытаний № ССРД-02/2017 от 07.02.2017 года. Испытательного центра Общества с ограниченной ответственностью "Стандарт-Групп", регистрационный номер аттестата аккредитации RA.RU.21H801. Акта о результатах анализа состояния производства № 5234 от 19.01.2017 года органа по сертификации Общества с ограниченной ответственностью «Сертификация продукции «Стандарт-Тест», регистрационный № RA.RU.11AB24. Обоснования безопасности АП 00.00.001.2016.6 ОБ, паспорта оборудования, руководства (инструкции) по эксплуатации, проектной документации, технологических регламентов и сведений о технологическом процессе, документов, подтверждающих квалификацию специалистов и персонала изготовителя, схема сертификации: 1с ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Перечень стандартов, в результате применения которых обеспечивается соблюдение требований технического регламента: ТР ТС 032/2013 Приложение 2 "О безопасности оборудования, работающего под избыточным давлением". Условия хранения продукции в соответствии с ГОСТ 15150-69. Срок хранения (службы, годности) указан в прилагаемой к продукции товаросопроводительной или эксплуатационной документации СРОК ДЕЙСТВИЯ С 14.02.2017 ПО 13.02.2022 ВКЛЮЧИТЕЛЬНО <table border="0"> <tr> <td rowspan="2"> М.П. RU 11AB24 Органа по сертификации </td> <td> Руководитель (уполномоченное лицо) органа по сертификации (подпись) </td> <td> Козычук Лина Васильевна (подпись, фамилия) </td> </tr> <tr> <td> Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) </td> <td> Одиноченко Екатерина Рафиковна (подпись, фамилия) </td> </tr> </table>		 М.П. RU 11AB24 Органа по сертификации	Руководитель (уполномоченное лицо) органа по сертификации (подпись)	Козычук Лина Васильевна (подпись, фамилия)	Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы))	Одиноченко Екатерина Рафиковна (подпись, фамилия)
 М.П. RU 11AB24 Органа по сертификации	Руководитель (уполномоченное лицо) органа по сертификации (подпись)		Козычук Лина Васильевна (подпись, фамилия)			
	Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы))	Одиноченко Екатерина Рафиковна (подпись, фамилия)				

Flow & Level Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)



제12-0767호

안 전 인 증 서

(주)와이즈산전

경기 용인시 기흥구 덕영대로2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건 기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

ILLUMINER

형식·모델 / 용량·등급 / 인증번호

형식·모델	용량·등급	인증번호
A250 Series	110 ~ 240V Ex d IIC T6 IP65	12-GA2BO-0767

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

1. Tamb = -20℃ ~ +60℃
2. 용기에 0.58MPa 압력시험 후 출고할 것

2012년 12월 14일

한국가스안전공사 사장



Gas Instrument

NEP (New Excellent Product)



신제품인증서

제 품 명 MEMS 기반 다중가스 감지 및 센서감도를 향상시킨
누액/누설감지기

회 사 명 (주)와이즈산전

대 표 자 이상훈

소 제 지 경기 용인시 기흥구 덕영대로 2022

인증번호 NEP-MOTIE-2018-022

유효기간 2018년 9월 7일부터 2021년 9월 6일까지

위 제품을 「산업기술혁신 촉진법」 제16조에
따른 신제품으로 인증합니다.

2018년 9월 7일

산업통상자원부장관



Gas Instrument

Explosion Proof Certificate - Flame Proof (Ex d IIC T6 IP65)

제18-0411호

안전인증서

(주)와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

무선 누액 누설감지기
(Wireless Leak Detector)

형식 · 모델 / 용량 · 등급 / 인증번호

형식·모델	용량 · 등급	인증번호
GLD1000 (Direct Type)	DC 24V, 10mA, DC 3.6V(Battery), 30mA Ex de IIC T6(IP65)	18-GA2BO-0411X

인 증 기 준

방호장치 안전인증 고시(고용노동부고시 제2016-54호)

인 증 조 건

가. $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$, 뒤틀림 사용조건 참조
나. 가스탐지부 Sinter 부분은 IP등급에서 제외

2018 년 07 월 26 일

한국가스안전공사 사장

[Red Seal]

Explosion Proof Certificate - Flame Proof (Ex de IIC T6 IP65)

제18-0412호

안전인증서

(주)와이즈산전

경기도 용인시 기흥구 덕영대로 2022

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

품 목

무선 누액 누설감지기
(Wireless Leak Detector)

형식 · 모델 / 용량 · 등급 / 인증번호

형식·모델	용량 · 등급	인증번호
GLD1000 (Remote Type)	DC 24V, 10mA, DC 3.6V(Battery), 30mA Ex de IIC T6(IP65)	18-GA2BO-0412X

인증기준

방호장치 안전인증 고시(고용노동부고시 제2016-54호)

인증조건

가. $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$, 뒷면 사용조건 참조
나. 가스탐지부 Sinter 부분은 IP등급에서 제외

2018 년 07 월 26 일

한국가스안전공사 사장

한국가스안전공사

제18-0412호



Overseas Vendor Registration Status

Overseas Vendor Registration Status

section



05

Overseas vendor Registration Status

PRESSURE	
	PG Pressure Gauge PS Pressure Switch DP Differential PG ACC Accessories PT Pressure Transmitters
TEMPERATURE	
	TG Temperature Gauge Thermometer TC Thermocouple TW Thermowell RTD Resistance Temperature Detector TS Temperature Switch TT Temperature Transmitter
FLOW & LEVEL	
	<div><div data-cs="2" data-kind="parent">FLOW</div><div data-kind="ghost"></div><div><div>OF</div><div>Orifice Flange & Asemblies</div></div><div><div>FS</div><div>Flow Switch</div></div><div><div>VC</div><div>Venturi Cone</div></div></div>
	<div><div data-cs="2" data-kind="parent">LEVEL</div><div data-kind="ghost"></div><div><div>GG</div><div>Level Gauge Glass</div></div><div><div>OP</div><div>Orifice Plate</div></div><div><div>FM</div><div>Flow Meter</div></div><div><div>FN</div><div>Flow Nozzle</div></div><div><div>FT</div><div>Flow Transmitter</div></div><div><div>LG</div><div>Level Gauge</div></div><div><div>LT</div><div>Level Transmitter</div></div></div>
SIGHT GLASS	
	SG Sight Glass
GAS DETECTORS	
	GD Gas detector FD Fire detector

COMPANY NAME	LOCATION	REGISTERED ITEMS
KUWAIT		
KOC (KUWAIT OIL COMPANY)	KUWAIT	PG, PS / TG, TW, TS
KNPC (KUWAIT NATIONAL PETROLEUM COMPANY)	KUWAIT	PG, PS / TG, TW, TS, RTD, TC, FS
KINGDOM OF SAUDI ARABIA		
SABIC (SAUDI BASIC INDUSTRY CORPORATION)	SAUDI ARABIA	PG, PS / TG, TS
SEC (SAUDI ELECTRICITY COMPANY)	SAUDI ARABIA	PG, PS / TG, TC, TS, TW / OF, FM, GG / GD, VT
SWCC (SALINE WATER CONVERSION CORPORATION)	SAUDI ARABIA	TG, RTD, TW, PG
BAHRAIN		
EWAB (ELECTRICITY & WATER AUTHORITY OF BAHRAIN)	BAHRAIN	PG, PS, TG, TC, TW, TS, RTD, LG, GG, FM, VT, OP, OF, GD, FD
U.A.E		
ADWEA (ABU DHABI WATER & ELECTRICITY AUTHORITY)	ABU DHABI	PG, PS, PT, TG, TT, TC, RTD, TW / OP, OF, FM, FS, FN, LG, LT, LS
ADGAS (ABU DHABI GAS LIQUEFACTION COMPANY)	ABU DHABI	PG, PS, TG, TT, TC, RTD, TW / OP, OF, FM, FS, FN, VT / LG, GG, SG
ADNOC (ABU DHABI NATIONAL OIL COMPANY)	ABU DHABI	PG, PS, PT, TG, TT, TC, RTD, TW / OP, OF, FM, FS, FN, VT / LG, LT, LS, SG
GASCO (ABU DHABI GAS INDUSTRIES LIMITED)	ABU DHABI	PG, PS, PT, TG, TT, TC, RTD, TW / OP, OF, FM, FN, VT / LG, GG, LT, LS, SG
TAKREER (ABU DHABI REFINING COMPANY)	ABU DHABI	PG, PS, TG, TC, RTD, TW, FM, VT / LG, SG
QATAR		
QATAR PETROLEUM (QUTAR PETROLEUM)	QUTAR	PG, TG, RTD, TC, TW, LG, FE
THAILAND		
PTT (PETROLEUM AUTHORITY OF THAILAND)	THAILAND	PG / TG
IRPC (IRPC PUBLIC COMPANY LIMITED)	THAILAND	PG / TG, TC, TW, RTD
IRAN		
NIGC (NATIONAL IRANIAN GAS COMPANY)	IRAN	PG, TG, RTD, TC, TW, PT, TT, PS, TS, LS
MALAYSIA		
PETRONAS (PETRONAS)	MALAYSIA	PG, DPG, TG, TS, SG, PS, FE, OP, VT, FN, LG, TW, TC, RTD
TAIWAN		
CTCI	TAIWAN	PG, TG, PS, TS, PT, TT, FM, OF, LG, NZ, VT, SG, RTD, TC, TW, VALVE, MULTI/SKIN TC, GAS DETECTOR, BELLOWS

Overseas vendor Registration Status

KOC

10/03/2013 14:01	00965-23984967	PURCH. TEAM
		PAGE 01



كويت اويل كومپاني
Kuwait Oil Company
A Subsidiary of Kuwait Petroleum Corporation

TO: M/s. Wise Control Inc., Korea Fax No.: 0082 31 281 6800	Date : 05 th March 2013 Msg. No.: RQAN/1342/6640/2013 Total No. of Pages: 1
FROM: Ag. Team Leader Supplier Relationship Management Commercial Support Group P.O. Box -- 9758, 61008 Ahmadi, Kuwait Fax No.: (965) 23989418	
SUBJECT: <u>RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION</u>	
OUR REF.: <u>VEC-3785/IN/PG/RQF/6640/2013</u>	

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY	: PRESSURE / DIFFERENTIAL PRESSURE GAUGES
FACILITY ADDRESS	: M/s. WISE CONTROL INC., A.B.DONG (SANGGAL-DONG (CORP.) WISE SANJEON), DEOGYEONG-DAERO 2022, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, KOREA
Validity	: From 05th March 2013 to 04th March 2018 (5 years)
Earlier Approvals	: VEC/IN/PG/011/98 dated 18th October 1998 as M/s. Woojin Industrial System Engineering Inc., Korea VEC-3785/IN/PG/RQF/5596/2007 dated 23rd July 2007

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (If required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company



Tariq Al-Masoud
 cc: M/s. Ruzayit Trading Company Ltd., Kuwait; Fax:- 2 481 0270
 File

QF/CAG/PUR/14

KOC

10/03/2013 14:01 00565-23584967

PURCH. TEAM

PAGE 02



TO: M/s. Wise Control Inc.,
Korea
Fax No.: 0082 31 281 6800

FROM: Ag. Team Leader Supplier Relationship Management
Commercial Support Group
P.O. Box – 9758, 61008 Ahmadi, Kuwait
Fax No.: (965) 23989418

Date : 05th March 2013
Msg. No.: RQAN/1341/6639/2013
Total No. of Pages: 1

SUBJECT: **RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION**
OUR REF.: **VEC-3786/IN/PTS/RQF/6639/2013**

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : **PRESSURE & TEMPERATURE SWITCHES**
FACILITY ADDRESS : **M/s. WISE CONTROL INC.,
A.B.DONG (SANGGAL-DONG (CORP.) WISE SANJEON),
DEOGYEONG-DAERO 2022, GIHEUNG-GU, YONGIN-SI,
GYEONGGI-DO, KOREA**

Validity : **From 05th March 2013 to 04th March 2018 (5 years)**
Earlier Approvals : **VEC/IN/PTS/014/98 dated 18th October 1998 as M/s. Woojin
Industrial System Engineering Inc., Korea
VEC-3786/IN/PTS/RQF/5748/2007 dated 23rd July 2007**

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (if required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company


Tariq Al-Masoud

cc: M/s. Rezyat Trading Company Ltd., Kuwait; Fax:- 2 481 0270
File

QF/CAG/PUR/14

KOC

10/03/2013 14:01	80965-23984967	PURCH.- TEAM	PAGE 03
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شركة نفط الكويت
Kuwait Oil Company
شركة نفط الكويت
A Subsidiary of Special Purpose Vehicle

TO: M/s. Wise Control Inc., Korea Fax No.: 0082 31 281 6800	Date : 05 th March 2013 Msg. No.: RQAN/1340/6638/2013 Total No. of Pages: 1
FROM: Ag. Team Leader Supplier Relationship Management Commercial Support Group P.O. Box – 9758, 61008 Ahmedi, Kuwait Fax No.: (965) 23989418	
SUBJECT: <u>RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION</u> OUR REF.: <u>VEC-2935/IN/TG/RQF/6638/2013</u>	

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY	: TEMPERATURE GAUGES (WITH THERMOWELLS)
FACILITY ADDRESS	: M/s. WISE CONTROL INC., A.B.DONG (SANGGAL-DONG (CORP.) WISE SANJEON), DEOGYEONG-DAERO 2022, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, KOREA
Validity	: From 05 th March 2013 to 04 th March 2018 (5 years)
Earlier Approvals	: VEC/IN/TG/008/98 dated 14 th November 1998 as M/s. Woojin Industrial System Engineering Inc., Korea : VEC-2935/IN/TG/RQF/5797/2007 dated 23 rd July 2007

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / Information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (if required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company


Tariq-Al-Masoud
 CC: M/s. Rezyat Trading Company Ltd., Kuwait; Fax:- 2 481 0270
 File
 80965/23984967

KNPC

شركة البترول الوطنية الكويتية		
إحدى شركات مؤسسة البترول الكويتية A Subsidiary of Kuwait Petroleum Corporation	KNPC	
VENDORS & CONTRACTORS EVALUATION COMMITTEE		
Vendor Registration Certificate		
This document certifies that the manufacturing facility of		
M/s. WISE CONTROL INC., SOUTH KOREA., 199, SANGGAL DONG, GIHEUNG GU, YONGIN CITY, KYUNGGI DO, KOREA.		
have been assessed and approved to supply of the following product(s) for KNPC refineries		
Product	Description	
46 72	FLOW SWITCHES	
46 77	TEMPERATURE INSTRUMENT NON CONTACT	
46 78	THERMOWELLS/THERMOCOUPLES/RTDs/TEMPERATURE GAUGES	
46 80	PRESSURE SWITCHES	
46 81	TEMPERATURE SWITCHES	
46 90	PRESSURE GAUGES	
 Ahmad Al-Tabtabai Chairman V & CEC		Revalidation Approval: 02/01/2013 Approval Expiry: 30/06/2018 Code Number: 277124
PLEASE REFER OVERLEAF FOR INSTRUCTIONS TO THE VENDOR		

المكتب المركزي : ص.ب. 70 - المنطقة 15 - الكويت هاتف : 23889900 - فاكس : 23889901 - 23889902
Head Office : Kuwait National Petroleum Company - P.O. Box : 70 Safat 15001, Safat - Kuwait - Tel.: 23889900 www.knpc.com C.R : 8149 Capital : 260,000,000

SABIC

ADD: 03*2008 14:43 00966 3-3401850		SQ: 890	#0551 P.001/001
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SABIC

سابك

Vendor No.: 204295

Vendor Name: WISE CONTROL INC

Telephone: 0082-312805114

Fax: 0082-312816800

E-mail: chlee@wisecontrol.com

Attention: MR. C H. LEE

Subject: QUALIFICATION

Date: 03-Aug-08

Total Page/s: 1

Dear Supplier,

Based on business needs, we are pleased to report that you have been qualified as vendor of Saudi Basic Industries Corporation (SABIC).

Qualification means that you are eligible to receive requests for quotations and orders for the designated materials and / or services. However, there is no guarantee that you will receive any such requests or orders.

Please indicate your Vendor Number as mentioned above when communicating with SABIC for easy reference.

Thank you for your interest in being a supplier to SABIC.

Best regards,



Abdullah A. Al-Thukair

Vendor Evaluation Sr. Analyst
 Supplier Qualification Section - Projects and Turnaround Dept.
 SABIC Shared Services Supply Management Organization
 Phone: + 966-3-340-1847
 Fax: + 966-3-340-1850
 E-mail: althukair2@sabic.com

NOTE:
 For Supplier information update, please contact the following:
 Saudi Basic Industries Corporation (SABIC)
 Shared Services - Supply Management Organization (SMO)
 Projects & Turn Dept. - Supplier Qualification Section
 P. O. Box 11115, Jubail Industrial City 31961
 Kingdom of Saudi Arabia
 TEL: +966-(3)-340-1808 / 1803 / 1872 / 1819
 FAX: +966-(3)-340-1850
 EMAIL: alshukair2@sabic.com

ملاحظة:
 لأي مستشار تم تسميته من قبل سابك في المصنوعات الواردة بالبيان على العنوان التالي
 إدارة البنية التحتية للصناعات الأساسية (سابك)
 المصنوعات القائمة به - قطاع المصنوعات
 إدارة المشاريع و التسمية القومية - قسم إدارة الموردين
 صندوق بريد 11115 مدينة الجبيل الصناعية - 31961
 المملكة العربية السعودية
 هاتف رقم: +966-(3)-340-1808 / 1803 / 1872 / 1819
 الفاكس رقم: +966-(3)-340-1850
 بريد إلكتروني: alshukair2@sabic.com

SEC

ENGINEERING & GENERATION PROJECTS SECTOR GENERATION PROJECTS ENGINEERING DEPARTMENT	 الشركة السعودية للكهرباء Saudi Electricity Company
--	--

Date : November 23, 2010
To : WISE CONTROL INC.
Attn. : Mr. CH Lee
 Overseas Sales Dept. GM
e-mail : chlee@wisecontrol.com
Subject: Vendor Pre-Qualification

We are pleased to inform you that, **WISE CONTROL INC.** in Korea is qualified with Saudi Electricity Company to provide the following products:

No.	Description	limitations
1	Pressure & Temperature instrument (Gauge, Switchs, Thermocouples, Thermo Well)	No Limit
2	Measuring devices sensors (Orifice, Ventura Tubes, Flow Nozzle, Gas Detectors)	No Limit
3	Control Panel	No Limit

Please note that by virtue of this letter you are qualified for the above mentioned product by **WISE CONTROL INC. Korea**.

We are looking forward to work with you in the future.

Best Regards,

 Department Manager,
 Generation Projects Engineering



SWCC

12-DEC-2006 TUE 14:12	SWCC-INFORMATION CENTER	FAX NO. 4821015	P. 01
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 SWCC	Saline Water Conversion Corporation Riyadh Olaya King Fahd Road P.O. Box: 5945 Riyadh 11422 Kingdom of Saudi Arabia TM: 4631111 Fax: 4631111/1001 www.swcc.gov.sa	المؤسسة العامة للمياه المحلاة الرياض طريق الملك فهد صندوق ٥٩٤٥ الرياض ١١٤٢٢ المملكة العربية السعودية تليفون: ٤٦٣١١١١ فاكس: ٤٦٣١١١١/١٠٠١ www.swcc.gov.sa
--	--	--

DATE : 12 December 2006.
TO : ACWA POWER SASAKURA
ATTN. : Dr. Mohamed A. Al Fouzan
 General Manager
FAX : 460 8282
CC : SWCC PROJECT EXECUTION DEPARTMENT
CC : SWCC WESTERN REGION OFFICE
CC : SUPERVISION COMMITTEE OFFICE (02 692 3424)

SUB : NEW SATELLITE PLANTS PROJECT,
Final Approval for "WISE Control Inc.-Korea".

Y. REF. : APS/06/182 **DATEI:** 10.12.2006.

With reference to the subject mentioned above, please be informed that SWCC hereby grants Proqualification Final Approval to your proposed subcontractor "WISE Control Inc.-Korea" for the manufacture and supply of "Temperature Instrument (Bimetal Thermometer & RTD with Thermowell) and Pressure Gauges (Safety Pattern & Diaphragm type)" for this Project.

Regards,

Mohammad Abdul Rahman Al Jaser
 Director General Computer & Information
 SWCC, Riyadh, Saudi Arabia

12th December 2006 18/06/2006

EWAB

KINGDOM OF BAHRAIN
ELECTRICITY & WATER AUTHORITY
PURCHASING & SUPPLY DIRECTORATE



مملكة البحرين
هيئة الكهرباء والماء
إدارة المشتريات والتجهيزات

Ref: 6030/2.512/223/2008
Date: 3rd February 2008

M/S. Manarah World Trading
P.O. Box. 38699,
Riffa,
Kingdom of Bahrain
Tel. 17769524
Fax. 17769523

Dear Sir,

Subject: Pre-qualification of M/s Wise Control Inc – S. Korea

Reference is made to your previous submissions and fax dated 26/11/07 regarding the above mentioned subject.

We highly appreciate your interest for introducing M/s Wise Control Inc products to the authority.

Your submittals and capabilities of M/s Wise Control had been evaluated for the purpose of prequalification. You may get the opportunity to offer instrumentation products that conforms to Water Transmission specification and requirements, subject to the following:

- A. Technical merits of the products and after-sale services of the manufacturer will be monitored for a period of three years, and final approval shall be based on satisfactory re-assessment.
- B. Electricity & Water Authority reserves the right to cancel this approval at any time, if any unsatisfactory results arise.
- C. In the event of altering the source, manufacturing process or quality assurance procedures, Authority's consent shall be obtained, prior to supplying any such altered products.

Yours faithfully,

Mohamed A. Rahim Al-Sadeqi
Director,
Purchasing & Supply Directorate

ADWEA



Abu Dhabi Water & Electricity Authority
ADWEA Enterprise Asset Management System
Supplier Details Report

Page 2

Product No	Product Name	Principal	Principal Name	AgencyLin	Certificate No	Certif.ExpiryDe
0106005	FILTERS - SEPARATORS	9916160	SC CORPORATION	R		31-Aug-2009
0106010	FILTERS, AIR AND SPARES	9916160	SC CORPORATION	R		31-Aug-2009
0106020	WATER FILTERS/STRAINERS	9916160	SC CORPORATION	R		31-Aug-2009
0107420	PIPES; STRAINERS & TRAPS	9916160	SC CORPORATION	R		31-Aug-2009
0108010	VALVES - GATE	9916160	SC CORPORATION	R		31-Aug-2009
0108020	VALVES - BUTTERFLY	9916160	SC CORPORATION	R		31-Aug-2009
0108050	VALVES - CHECK	9916160	SC CORPORATION	R		31-Aug-2009
0108140	VALVES; GLOBE	9916160	SC CORPORATION	R		31-Aug-2009
0108200	VALVES; WAFFER CHECK	9916160	SC CORPORATION	R		31-Aug-2009
0113005	HEAT EXCHANGERS AND SPARE PARTS	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0113065	COLD BOX - HEAT EXCHANGER	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601045	INCINERATORS	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601095	PRESSURE VESSELS UP TO 30MM (CS/SS/AS/CLAD)	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601100	PRESSURE VESSELS UP TO 50MM (CS/SS/AS/CLAD)	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601105	PRESSURE VESSELS UP TO 125MM (ALL)	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601110	PRESSURE VESSELS ABOVE 125MM (ALL MATL.)	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0601150	DEAERATORS	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0801035	HEAT RECOVERY PACKAGES	9914748	UNIWEI CORPORATION	R		28-Dec-2005
0112050	FIRE ALARM SYSTEMS/SIREN/ALARMS/CALL	9914747	WISE CONTROL INC.	R		01-Dec-2008
0112120	FIRE & GAS DETECTION SYSTEM & PANEL	9914747	WISE CONTROL INC.	R		01-Dec-2008
0112320	DETECTORS FIRE & SAFETY	9914747	WISE CONTROL INC.	R		01-Dec-2008
0506010	THERMOCOUPLE/RTD THERMO WELL R T D'S	9914747	WISE CONTROL INC.	R		01-Dec-2008

Report Name / DS / User : SUPDETLS_ACT.RDD / NAWP / GHASHABAN
Site ID / Organization ID : ADWEA / ADWEAORG

Report Last Modified : 16-Aug-2008
Report Generated On : 01-Nov-2009 @ 12:

ADWEA



Abu Dhabi Water & Electricity Authority
ADWEA Enterprise Asset Management System
Supplier Details Report

Page 3

Product No	Product Name	Principal	Principal Name	AgencyLin	Certificate No	Certif.ExpiryDa
0506020	TRANSMITTER FLOW	9914747	WISE CONTROL INC.	R		01-Dec-2009
0506030	TRANSMITTER PRESSURE	9914747	WISE CONTROL INC.	R		01-Dec-2009
0506040	TRANSMITTER LEVEL	9914747	WISE CONTROL INC.	R		01-Dec-2009
0506050	TRANSMITTER TEMPERATURE	9914747	WISE CONTROL INC.	R		01-Dec-2009
0506060	TRANSMITTER DENSITY	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509005	METERS/RECORDERS/SWITCHES/TRANSMITTERS	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509220	GAUGES/INDICATORS, LEVEL	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509240	TRANSMITTERS/INDICATORS / DIGITAL	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509400	GAUGES/ PRESSURE	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509405	PRESSURE GAUGE MANIFOLDS	9914747	WISE CONTROL INC.	R		01-Dec-2009
0509410	GAUGES/INDICATORS, TEMPERATURE /	9914747	WISE CONTROL INC.	R		01-Dec-2009
0513040	PRESSURE, DIFFERENTIAL PRESSURE AND	9914747	WISE CONTROL INC.	R		01-Dec-2009
0106005	FILTERS - SEPARATORS	9914746	PROSERNAT	X	7365	27-Feb-2009
0509190	PRESSURE REGULATING SKIDS	9914746	PROSERNAT	X	7365	27-Feb-2009
0103005	PUMPS - SPARE	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103010	PUMPS - POTABLE WATER	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103020	PUMPS, CENTRIFUGAL	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103030	PUMPS - DOSING AND METERING	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103050	PUMP - CHEMICAL TRANSFER	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103070	PUMPS - OTHER PROCESS	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103300	PUMPS - SEALLESS	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009
0103330	PUMPS - SPECIAL (CRYO)	9907481	NIKKISO CO. LTD.	X	9647	28-Jul-2009

Report Name / DB / User : SUPPOETLS_ACT.RDD / MAXP / GHAS-ANSANI
Site ID / Organization ID : ADWEA / ADWEAORG

Report Last Modified : 10-Aug-2009
Report Generated On : 01-Nov-2009 @ 12:11

ADGAS

1010 71101

FACSIMILE MESSAGE



ABU DHABI GAS LIQUEFACTION COMPANY LTD

P. O. Box 3500, ABU DHABI, U. A. E. FAX No: (9712) 6061201

In case of transmission error, please call (9712) 6065708

To		From		Pages: 1
Fax No. :	02 6742422	Fax No. :	02-6061201	
Name :	Mr. James Mathew	Name :	Mr. Hassan A. Thabet	
Title :	Mechanical Engineer	Title :	Procurement Division Manager	
Company :	AL MAZROUT TRADING & GENERAL SERVICES LLC	Company :	ADGAS	
		Ref/ Date :	AD.128/104 9 June 2010	

SUBJECT: Registration No: 100194

With reference to your submission dated 26-5-2010, of Principal M/s. Wise Control Inc. - KOREA, we would like to inform you that, the following Products have been approved for inclusion in our data base system as possible source for service as shown below:

Manufacturer	Product	Description	Remarks
WISE CONTROL INC - KOREA	316570	SWITCHES: PRESSURE	Exclusive Agent
	316520	SIGHT GLASS/GAUGE GLASS	Exclusive Agent
	316550	THERMO-COUPLES THERMOWEL	Exclusive Agent
		R.T.D'S, PROBE & ACCESSORIES	
	316565	SWITCHES: TEMP.	Exclusive Agent
	316635	GAUGES: PRESSURE	Exclusive Agent
	316640	GAUGES: TEMPERATURE	Exclusive Agent
	316645	GAUGES: LEVEL	Exclusive Agent
	316655	RECORDERS - GAS FLOW	Exclusive Agent
	316615	METERS: VENTURI-FLOW	Exclusive Agent
	326510	ORIFICE PLATE & FLANGE	Exclusive Agent
	302566	DETECTORS & DETECTION SYSTEMS - FOR FIRE, GAS & HEAT	Exclusive Agent
	302580	DETECTORS: FIRE	Exclusive Agent
	326590	INSTRUMENT VALVES AND MANIFOLDS	Exclusive Agent

The inclusion of your name in ADGAS Commercial directory does not constitute an obligation on ADGAS to invite you to bid in any of the future tenders / enquiries of ADGAS, and may require separate pre-qualification, depending on the nature of the tenders / enquiries.


 Hassan A. Thabet

ADNOC

11.JAN.2011 8:09 ADNOC PROC SUPP DEPT

NO.826 P.1



FACSIMILE MESSAGE

To : AL MAZROUI TRADING AND GENERAL SERVICES LLC **Fax No.:** 009712 6742422
Attn.: General Manager Abu Dhabi

From : Procurement Support Department, Procurement Services Division, Shared Services Directorate **Fax No.:** 009712 6024264
Abu Dhabi National Oil Company (ADNOC)
P.O. Box 898 - Tel. (9712) 6020000 Abu Dhabi U.A.E.

Ref. No. : PS/003/10 **Date :** 11 JAN 2011
Subject : REGISTRATION & PRE-QUALIFICATION STATUS

With reference to your fax OFD/MC/F150/10 dated 8-Nov-2010, please be informed that based on the evaluation of your Principal's Pre-qualification Document, M/s. WISE CONTROL INC., has been included in ADNOC records as a possible source for supply of the following:

- Venturi Tubes & Nozzles
- Switches: Level
- Sight Glass/Gauge Glass
- Level Instruments – Displacer
- Tank Level Indicators/Gauges: Float Type
- Tank Level Indicators: Servo Type
- Transmitters/Indicators/Digital: Press/Level/Temp.
- Press. & Diff. Pr. Electronic Transmitters
- Thermo - Couples Thermowell, R.T.D's, Probes and Accessories
- Switches: Temp.
- Switches: Pressure
- Switches: Flow
- Meters: Venturi-Flow
- Gauges: Pressure
- Gauges: Temperature
- Gauges: Level
- Orifice Plate & Flanges

If you *do not* receive all the pages, please call Telephone: 6023081 **No. of pages to follow:**

Confidentiality Notice: This fax is Confidential. If you are not the intended recipient, please notify us immediately. You should not copy the Fax or use it for any purpose or disclose its contents to any other person. Thank you.

BCFAX10P5D-5

GASCO

Abu Dhabi Gas Industries Limited		Supplier's Existing Information Report								
Supplier Code:	000211	Supplier Name:	AL MAZROUI TRADING & GENERAL SERVICES LLC							
Supplier Type:	VENDOR									
Commercial Directory status:	QUALIFIED	Origin:	AE	Emirate:	ABU DHABI					
Licenses										
GENERAL LICENSE(S)										
License No	License description		License Expiration Date							
12310	MUNICIPALITY		05-Mar-2006							
14053	COMMERCIAL REGISTER		05-Mar-2006							
123	CHAMBER OF COMMERCE		11-Feb-2009							
7075	CHAMBER OF COMMERCE		09-Mar-2011							
Addresses										
Official Address	Contact	Address Type	City	P.O.BOX	Country	Phone	Fax	Email		
1	JAMES MATHEW	V	ABU DHABI	97	AE	009712672073	00971267424	mtgsold@mtgsold.ae		
0		V	ABU DHABI	97	AE	009712672073	00971267424	mtgs@mtgsold.ae		
Contacts										
Contact	Contact Type	Position	Phone	Fax	Email					
ABBAS OSSAILI		TECHNICAL MANAGER	0097126742422	0097126720730	abbas@mtgsold.ae					
AKRAM HAMMOUD		GENERAL MANAGER	0097126720730	0097126742422	mtgs@mtgsold.ae					
ALI MOUBADDER		BUSINESS DEVT MANAGER	0097126742422	0097126720730	ali@mtgsold.ae					
HASSAN HAMMOUD		SALES MANAGER	0097126720730	0097126742422	hassan@mtgsold.ae					
JAMES MATHEW		MECHANICAL ENGINEER	0097126720730	0097126742422	james@mtgsold.ae					
Stocks and/or Sourcer Capabilities										
Product Group	Product Group Description					Stock Value				
170020	MECHANICAL SPARES SOURCERS FROM EUROPEAN COUNTRIES					N				
170010	MECHANICAL SPARES SOURCERS FROM USA					N				
Principals										
Gasco Code	Name	Agency Type	Agency No.	Agency Exp.Date	Related Product Group	Product Group Description	Country	Phone	Fax	Email
500011	M & I ELECTRIC INDUSTRIES, INC.	E	7704	27-Nov-06	212505	HV/MV SWITCHGEARS	US	0017136448182	0017136447805	dreeder@mielectric.com
503579	P.M.WRIGHT LTD. / CIRCUL-AIRE DIVISION	E	5333	05-Dec-05	186525	CORROSION MONITORING SYSTEM	CA	0015143373331	0015143363023	smerchant@circul-aire.com
503579	P.M.WRIGHT LTD. / CIRCUL-AIRE DIVISION	E	5333	05-Dec-05	410025	CATALYST - ACTIVATED (CARBON/ALUMINA)	CA	0015143373331	0015143363023	smerchant@circul-aire.com

Page 1 of 9

Friday, July 09, 2010

TAKREER



FACSIMILE MESSAGE

To : M/s. Al Mazroui Trading & General Services - L.L.C.
Attn: Mr. Assem I. Bibi - Managing Director

Fax No.: 6742422
Abu Dhabi

From : Procurement Support Department Manager

Fax No.: 6027442

Abu Dhabi Oil Refining Company (TAKREER)
P.O. Box 9593 - Tel. (9712) 6027000 - Abu Dhabi, U.A.E.

Ref. No. : TKR/S/S/ 153 /FES/2010

Date : 24 JAN 2010

Subject : REGISTRATION & PRE-QUALIFICATION STATUS

Reference to the Documents of your Principal M/s. Wise Control Inc. - Korea, submitted by you as a Manufacturer. Please be informed that based on the evaluation, the above principal has been included in TAKREER records as a possible source for supply of the following products:

- > Gauges: Level
- > Switches: Temp.
- > Gauges: Pressure
- > Switches: Pressure
- > Gauges: Temperature
- > Meters: Venturi-Flow
- > Sight Glass / Gauge Glass
- > Thermo - Couples Thermowell, R.T.D's, Probes And Accessories

Please note that at the time of release of enquiries, a further short listing takes place based on exhibited interest at that time and the specifics of material / equipment in question as the need may be.

Kindly note that this fax shows your company's current Registration & Prequalification status with TAKREER and it supersedes any and all previous faxes which may have been issued to you on this subject.

You are advised to quote your Principal's Registration No. 905909 in all future correspondence.

Regards,

Hashim Al Hashemi

If you do not receive all the pages,
please call Telephone : (9712) 6027479

No. of pages to follow:

Confidentiality Notice: This fax is Confidential. If you are not the intended recipient, please notify us immediately. You should not copy the Fax or use it for any purpose or disclose its contents to any other person. Thank you.

FA. 905909

QATAR PETROLEUM

قطر للبترول
Qatar Petroleum
MATERIALS DEPARTMENT
(Qatar Navigation Plaza)
Tel 4240200 / Fax 4240351
Website: www.qp.com.qa

Fax

To: WISE CONTROL INC.
Attn.: Ch Lee, Overseas Sales Manager
Fax: +82 31 281 6800
Phone: +82 31 280 5136
Date: 21 May 2007
cc: Al Ahed Trading (Attn.: Richard Gomes) Fax 44 14 021

From: SUPPLIER RELATIONS
supplierrelation@qp.com.qa
Fax: 0974-4240351
Phone: 0974-4240248
Ref. #: MTR3/47/07
Pages: 1 of 1

Subject: Vendor Registration

We are pleased to inform you that your submission to become a registered **Vendor** with Qatar Petroleum has been accepted. Your firm has been included in the following product groups, and is contingent upon your continuous adherence to Qatar Petroleum Standards and Specifications:

Product Group	Commodity Description
6010	PROCESS INSTRUMENT: FLOW
6020	PROCESS INSTRUMENT: LEVEL
6030	PROCESS INSTRUMENT: PRESSURE
6040	PROCESS INSTRUMENT: TEMPERATURE
6050	PROCESS INSTRUMENT: ANALYZERS/MONITORS & PARTS
6060	PROCESS INSTRUMENT: FIELD MOUNTED

Your Vendor Registration number: 6808 Valid until : 21 May 2009

However, successful registration is no guarantee, implied or otherwise, of any future participation in tenders, issuance of enquiry or award of work: (i.e. the inclusion on a particular tender list or the purchase of your products). We are merely giving your company an equal opportunity to compete with other registered vendors having the same range of products and services.

The above product groups are in accordance with QP Materials Dept. and Shell's Materials, Equipment, Standards and Codes (MESC) coding system. Unless informed otherwise, we will assume you are satisfied with your products' coding and categorization.

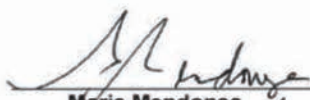
If at anytime in the future your circumstances change such that you are no longer able to comply with the qualification criteria for these product groups, you should advise QP immediately. QP reserves the right to remove your name from the registered supplier list at its discretion and without notification.

Should there be any changes in your company's profile (e.g. name, address, telephone, fax, renewal or termination of agency agreement) QP must be notified immediately.

Renewal of registration with Qatar Petroleum must be applied two (2) weeks before the expiration date.

We thank you for the interest you have shown in introducing your company and products to Qatar Petroleum.

Regards,


Maria Mendonsa
Senior Supervisor

If you do not receive the correct number of pages or any are not legible, please contact the sender as soon as possible.

Confidentiality Caution: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you have received it in error, please notify the sender immediately by telephone.



PTT



☐ Service in Restricted Area							
☒ Material/Product Brand List							
Material Group	EQUIPMENT	Manufacturer & Brand	Origin	AR1	AR2	CH	Last updated
Instrument	Pressure Gauge	Wise Control Inc.	Korea	Y	Y	Y	19.11.2013 08:37
Instrument	Temperature Gauge	Wise Control Inc.	Korea	Y	Y	Y	19.11.2013 08:38
☒ General Service & Material							
Commodity of Service		Last updated					
General Service		21.04.2010 09:45					

IRPC

เอกสารแนบท้าย ประกาศสายงานปฏิบัติการ 3 ฉบับที่ 002/2555

Approved Manufacturer List (AML)			
IRPC		S10332300-3020 Rev.0	
บริษัท โอเอสซี จำกัด (มหาชน)		ฉบับที่ 1/2555	
หมวด Control system, Instrument, Bulk Material and Analyzer		2 nd Nov. 2012	
ITEM	SYSTEM / EQUIPMENT	MANUFACTURER LIST	
		Name of AML	Accepted Country of Origin.
		EBH	Japan / Germany
	Tankgaging	Emsaf	Netherland
	(Custody type)	Rosemount(SAAB)	Sweden
	Conductivity	Vega	Germany
		EAH	Germany
		Magnetrol	USA
	Vibration	EAH	Germany
		Vega	Germany
		Rosemount	Singapore / UK
		ABB(K-Tek)	USA
		Krohne	France
	Magnetic float	K-Tex	USA
		Magnetrol	USA
		KSR-KUEBLER	Germany
		Brook	USA
		Tokyo Keiso	Japan
	Magnetostriuctive	K-Tex	USA
		Magnetrol	USA
		KSR-KUEBLER	Germany
		Magtech	USA
5	PRESSURE MEASUREMENT		
	Pressure Gauge	Wika	Germany
		Inac	Italy
		Bassmer Bourdon-Heanni	France
		Ashcroft	Europe
		Wise (Woojin)	Korea
		Tempress	USA
		Kobold	Germany
	Electronics Pressure Transmitter	Rosemount	USA
		Yokogawa	JAPAN
		azbil / Yamatake	Japan
		EBH	Germany
	Pressure Switch	Nagano	Japan
		Danfoss	Denmark
		SOR	USA
		UE	USA
		Cella	Italy
6	TEMPERATURE MEASUREMENT		
	Temperature gauge	Ashcroft	Europe
		Rueger	Switzerland
		ITEC	Italy
		Bassmer Bourdon-Heanni	Switzerland
		Wika	Germany
		Wise (Woojin)	Korea
		ReoTemp	USA
		TEL-TRU	USA
		TEMPRESS	USA
	Temperature Element	TCP	USA, Europe
		Wika	Germany, Canada, USA
		Okazaki	Japan
		Thermo - Electric	Netherland
		YAMARI	Canada, Japan, Singapore
		EBH	Italy
		Wise	Korea
		Rueger	Switzerland
	Temperature Transmitter	Rosemount	Singapore
		Honeywell	USA
		Yokogawa	Japan

NIGC



Date: 11.06.2012

No: 60.112.37720

To: WISE CONTROL INC

Attn: Asst Manager

Subject: NIGC VENDORS LIST

Dear Sir,

With reference to our questionnaire form (completed by your company) , please be informed that your company has been registered in our vendors list as a manufacturer of following product.

- Gauge (DP – Pressure)
- Transmitter (Pressure , Temperature)
- Switch (Level – Pressure – Temperature)
- RTD
- Thermocouple
- Thermowell
- Thermometer

Hope for future business relations.

N.B: The validity of this letter is for one year, from the date of issue.

Best Regards,

Farzin Mohajeri

Sourcing , Commercial Research & Contractor Manager

Cc: Fars Sanat Arman (FSACO)

PETRONAS



COMPANY'S NAME : FGE CONTROL (SI) SDN BHD (65200-P)
 LICENSE NO : 965200-P
 LICENSE PERIOD : 21.05.2014 - 19.05.2017

SPECIAL CONDITIONS

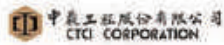
PRINCIPAL APPOINTMENT & AGREEMENT Company is required to submit a copy of the renewed exclusive agency appointment letter and renewed exclusive agency agreement from principal WISE CONTROL INC. and follow the format as specified in the PETRONAS Licensing & Registration General Guidelines before 31 October 2016. Failing which, the company will no longer be listed in the PETRONAS List of Licensed / Registered Companies (LLRC) for the relevant SWEC.

CATEGORIES OF LICENSE / REGISTRATION

APPROVED LICENSE CATEGORIES					
L/R	Service / Supplier Code	Mode of Operation	Name of Product / Rtg / Vessel (Which applicable)	Approval Date / Time	Expiry Date
L	PI1070100 INSTR-FLOW INSTR-ORIFICE BODIES	AGENT	WISE CONTROL INC.	09.06.2014 09:29:41	19.05.2017
L	PI1070300 INSTR-FLOW INSTR-SIGHT FLOW INDICATORS	AGENT	WISE CONTROL INC.	20.05.2014 11:33:03	19.05.2017
L	PI1070900 INSTR-FLOW INSTR-VENTURI TUBE	AGENT	WISE CONTROL INC.	09.06.2014 09:29:41	19.05.2017
L	PI1072200 INSTR-FLOW INSTR-FLOW NOZZLE	AGENT	WISE CONTROL INC.	09.06.2014 09:29:41	19.05.2017
L	PI1080100 INSTR-LEVEL INSTR-LEVEL GAUGES/GLASSES&COCKS	AGENT	WISE CONTROL INC.	09.06.2014 09:29:42	19.05.2017
L	PI1104000 INSTR-PRESS INSTR-PRESSURE / DP SWITCHES (Reclassified PI1103000, PI1110400, PI1105000 & PI11108800)	AGENT	WISE CONTROL INC.	02.06.2014 15:40:49	19.05.2017
L	PI1106000 INSTR-PRESS INSTR-PRESSURE / DP GAUGE (Reclassified from PI1106000 & PI1105000)	AGENT	WISE CONTROL INC.	20.05.2014 11:33:03	19.05.2017
L	PI1120200 INSTR-TEMPERATURE INSTR-TEMPERATURE SWITCHES	AGENT	WISE CONTROL INC.	20.05.2014 11:33:02	19.05.2017
L	PI1120300 INSTR-TEMPERATURE INSTR-THERMOWELLS	AGENT	WISE CONTROL INC.	09.06.2014 09:29:42	19.05.2017
L	PI1120400 INSTR-TEMPERATURE INSTR-TEMPERATURE GAUGE	AGENT	WISE CONTROL INC.	20.05.2014 11:33:03	19.05.2017
L	PI1120500 INSTR-TEMPERATURE INSTR-TEMPERATURE SENSOR / ELEMENT	AGENT	WISE CONTROL INC.	09.06.2014 09:29:42	19.05.2017

*** END ***

CTCI



電話: +886-2-2833-9999

傳真: +886-2-2835-7621

廠商登記卡

Vendor Profile

應修卡日期: / /

公司全名 Company Full Name	English	WISE Control Inc.			
	Chinese	WISE Control Inc.			
公司簡稱 Company Abbreviation	English	WISE	公司負責人 Company Director	English	Mr. S.H.LEE
	Chinese	WISE		Chinese	Mr. S.H.LEE
前公司全名 Previous Company Name	English	Woojin Instrument			
	Chinese	Woojin Instrument			
公司登記地址 Register Address	English	2022 Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do 446-905 Korea			
	Chinese	2022 Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do 446-905 Korea			
課稅地址 Tax Address	2022 Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do 446-905 Korea				
統一編號 / 廠商編號 Register Number / ID	SCMD006190			郵遞區號 ZIP Code	446905
公司電話 Company Tel.	+82-31-280-5147			公司所在國家 Company Country	Korea
公司傳真 Company Fax	+82-31-281-6800			職工人數 Employee No.	275
主產品 / 服務 Main Product or Service	PRESSURE GAUGES, TEMPERATURE GAUGES, PRESSURE SWITCHES, TEMPERATURE SWITCHES, PRESSURE TRANSMITTERS, TEMPERATURE TRANSMITTERS, FLOW METERS, ORIFICE, LEVEL GAUGES, NOZZLE, VENTURI TUBE, SIGHT GLASS, RESISTANCE TEMPERATURE DETECTOR, THERMOCOUPLE, THERMOWELL, MANIFOLD VALVE, MULTI/SKIN THERMOCOUPLE, GAS DETECTORS, BELLOWS				
公司類型 Company Type	☒ 1. 製造商 Manufacturer ☐ 2. 庫存商 Stockist ☐ 3. 分公司 / 代理商 Branch / Agent ☐ 4. 下包商 Subcontractor				
公司成立日期 Company Register	1965/12/10			公司網站 Company Website	http://www.wisecontrol.com
資本額 Capital Amount	KRW 1,600,000,000			年度銷售額 Annual Sales	KRW 47,553,000,000



Worldwide Local Distributors and Business Partners | Company Location | Distributors

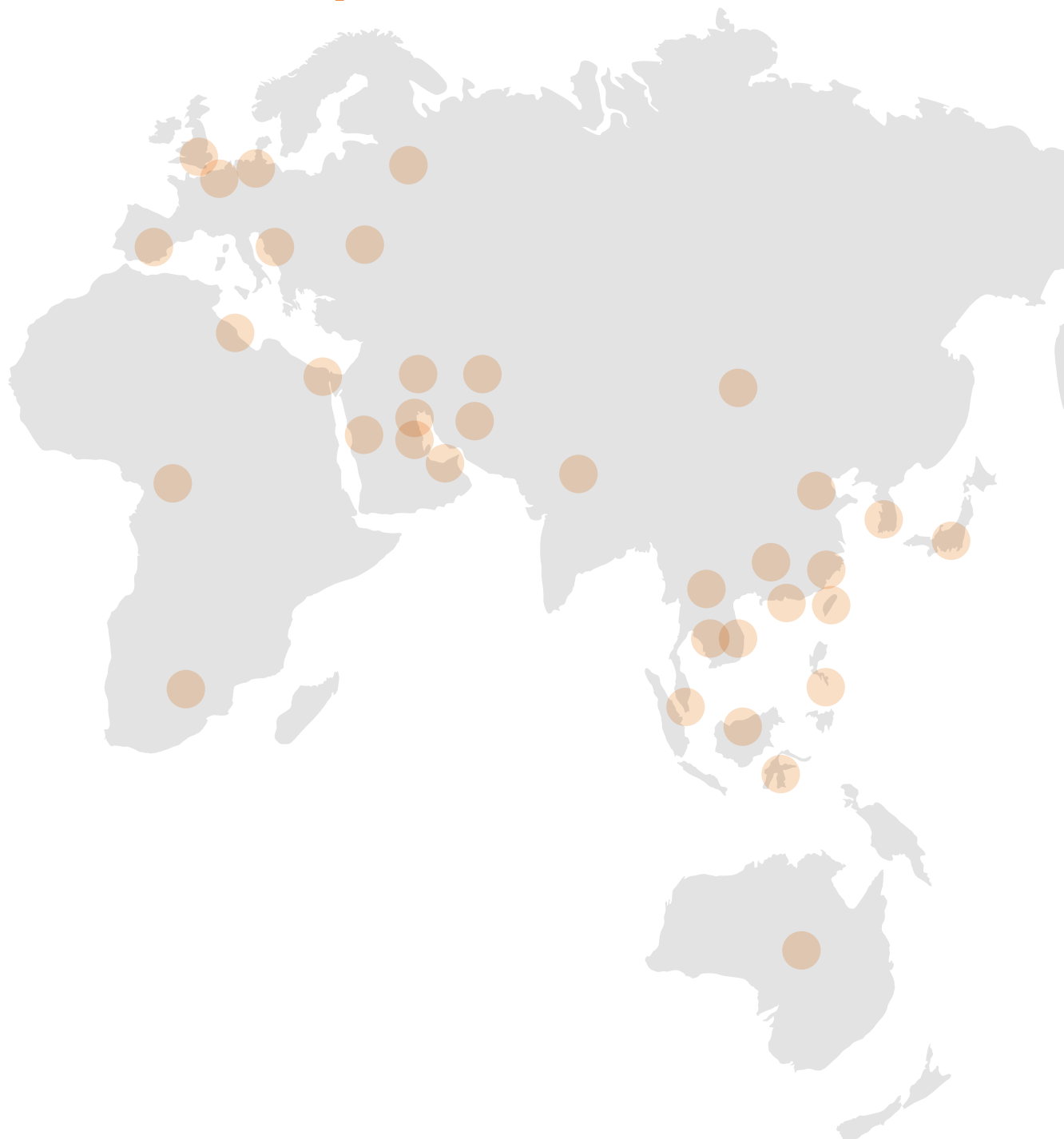
Distributors & Location

section



06

Worldwide Local Distributors and Business partners



The Middle East

SAUDI ARABIA
UNITED ARAB EMIRATES
OMAN
KUWAIT
PAKISTAN
LIBYA
IRAN

Europe

GERMANY
RUSSIA
FRANCE

Africa

SOUTH AFRICA
NIGERIA
EGYPT

East Asia

KOREA
JAPAN
CHINA
HONG KONG
TAIWAN

South East Asia

AUSTRALIA
THAILAND
INDONESIA
SINGAPORE
VIETNAM
PHILIPPINES
MALAYSIA

Name of Company - Full legal name WISE Control Inc.

Chief Executive Officer Sanghoon Lee



The Americas

UNITES STATE
CANADA

South America

COLOMBIA
PERU

Worldwide Local Distributors and Business partners

EAST ASIA

COUNTRY	CONTACT INFO
KOREA	HEAD Office MR. CH LEE TEL : +82-2-300-2312 FAX : +82-2-300-2310 chlee@wisecontrol.com 19F, 181, GASAN DIGITAL 1-RO, GEUMCHEON-GU, SEOUL, REPUBLIC OF KOREA
JAPAN	JAPAN Office JMC TEL: +81-3-5703-5150 FAX : +82-33730-3782 jmctok@japanmachinery.com 2-9-16 Higashi Rokugo, Ota-ku, 144-0046 Tokyo, JAPAN
CHINA	WISE CONTROL (SHANGHAI) INC. MS. MEIHUA ZHOU TEL : +86-21-64016088(EXT 807) FAX : +86-21-6401-8058 mhzhou@wisecontrol.com UNIT 313, 1081 WUZHONG RD. MINHANG DISTRICT, SHANGHAI, CHINA
HONG KONG	GATE WAY VALVE & FITTING LTD MR. THOMAS KWONG TEL : +86-26882666 FAX : +86-26882655 gatewayv@netvigator.com FLAT A1, 4/F, GALAXY FACTORY BUILDING, 25-27 LUK HOP STREET, SAN PO KONG, KOWLOON, HONG KONG
TAIWAN	CREATION SERVICE TECHNOLOGY CO., LTD. MR. TONY FANG TEL : +886 7 7532980 FAX : +886 7 7532981 tony@cstc.tw No.38, Ln. 5, Chengyi Rd., Fengshan Dist., Kaohsiung City 830, Taiwan

SOUTH EAST ASIA

COUNTRY	CONTACT INFO
AUSTRALIA	ROSS BROWN SALES PTY LTD. MR. ALBERT HAKVOORT TEL : +61-2-9899-2744 FAX : +61-2-9899-4233 alberthakvoort@rossbrownsales.com.au P.O. BOX 6345, 21 BROOKHOLLOW AVE, BAULKHAM HILLS, NSW 2153, AUSTRALIA
THAILAND	UTCC TECH MR. SATHIT VIJITPHAN TEL : +66-38-608803-5 FAX : +66-38-608806 sathit@utcctech.com 267/133 SUKHUMVIT RD.T. MAPTAPHUT, A. MUANG RAYONG, 21150 THAILAND

SOUTH EAST ASIA

COUNTRY	CONTACT INFO
INDONESIA	PT. WANATA TAMA MS. GERY YULIANNA MARPAUNG TEL : +62-21-8430-5320 FAX : +62-21-8430-5317 gerymarpaung@wt.co.id CIBUBUR TIMES SQUARE BLOCK C2/12B, JI. TRANSYOGI KM. 3 JAKARTA INDONESIA PT. PANCATAMA ABADI SAKTI MS. LIANA APRILI TEL: +62-21-662-4885 FAX: +62-21-669-7642 import@pancatama.com JI BANDENGAN UTARA NO 81., BLOCK A/7. JAKARTA 14440, INDONESIA
SINGAPORE	FGE CONTROL PTE LTD MR. RICHARD ONG TEL : +65-6483-3160 FAX: +65-6483-3190 richard@fgecontrol.com BLK 5014, ANG MO KIO AVE 5, #04-05, TECHPLACE II, 569881 SINGAPORE
VIETNAM	VIET PHAT TECH CO.,LTD (STOCKIST DISTRIBUTOR) MS. TRAM TEL: +84-613913459 FAX: +84-613913460 sale@vptech21.com 17/1KP-1 Binh Da Ward, Bien Hoa City,DIST, HCMC, VIETNAM, Dong Nai Province,Vietnam ANS VIETNAM MS. THAM TA TEL : +84-835170401 FAX : +84-835170403 tham.ans@ansvietnam.com TA NGOC SON D3,DINH TIEN HOANG STREET, MIEU NOI RESIDENT AREA,W.3,BINH THANH DIST, HCMC, VIETNAM INTERNATIONAL TECHNICAL TRADING CO., LTD MS. TO KHANH AN TEL: +84 -8-39 621 621 FAX: +84 -8-39 650 292 an@ittco.vn 113 BINH THOI STREET, WARD 11, DIST 11, HO CHI MINH CITY, VIET NAM nghia@ittco.vn 14 TRUNG YEN 3 STREET ,CAU GIAY DIST. TANG MINH PHAT TRADING AND SERVICE CO., LTD Mr. Sato Tel: +84.8.3512 1007 Fax: +84.8.3512 1008 sales@tmpvietnam.com 119 Quoc Huong, Thao Dien Ward, District 2, Ho Chi Minh City, Vietnam LIEN TIEN CO.,LTD Mr. Truong Van Qui Tel: +84.8.3855 2571 Fax: +84.8.3950 5331 lientien@lientien.com 23 Nguyen Thi St, Ward 13, Dist 5, HoChiMinh City, Vietnam.

SOUTH EAST ASIA

COUNTRY	CONTACT INFO
PHILIPPINES	NILE CENTRAL PROCUREMENT, INC.
	MR. NILO C. PUNZALAN
	TEL : +63-49-5311691
	FAX : +63-49-5311691
	nilo.punzalan@gmail.com
	UNIT 3 DON ONOFRE BLDG. 2, OLD HIGHWAY, SALA, CABUYAO, LAGUNA 4025 PHILS.
MALAYSIA	FGE CONTROL (M) SDN BHD
	MR. RICHARD ONG
	TEL : +603 5891-1290
	FAX : +603 5891-1350
	richard@fgecontrol.com
	Block G-2-4, Setia Walk, PSN Wawasan, Pusat Bandar Puchong, 47100 Puchong, Malaysia

THE MIDDLE EAST

COUNTRY	CONTACT INFO
SAUDI ARABIA	REZAYAT TRADING COMPANY LIMITED
	T.R. Ganesan
	TEL: +966-13-858-1106 Ext 131
	FAX: +966-3-882-6716
	instrument-sales@rezayat.com.sa
	Prince Sultan Bin Abed Alaziz Road, Near Saudi Investment Bank, Al Sehamyah Tower, 1st Floor, Room 103.
	Al-Khobar 31952, P.O. Box 90, Kingdom of Saudi Arabia
UNITED ARAB EMIRATES	AL MAZROUI TRADING & GENERAL SERVICES L.L.C.
	Flor Quiocho
	TEL: +971-2-672-0730
	FAX: +971-2-674-2422
	flor@mtgsofd.ae
	Suite 801, Al Yasat Tower, Najda Street, P.O. Box 95, Abu Dhabi, United Arab Emirates
OMAN	SERVICES TRADING ESTABLISHMENT L.L.C.
	Muhammad Bilal Bhatti
	TEL: +968-2449-0259
	FAX: +968-2449-0259
	ste@steoman.com
	PO BOX 174, AL AZAIBA, PC 130, SULTANATE OF OMAN
KUWAIT	GOLDEN PALM PETROLEUM SERVICES
	Mohamed Hussain
	TEL: +965-23983017
	FAX: +965-23983051
	mhussain@goldenpalm.com.kw
	Off: 24, 3rd Floor, Block B, Al Hashan Commercial Complex, Fahaheel. PO Box : 251, Abu Halifa 54753, Kuwait
PAKISTAN	EASTEC INTERNATIONAL
	Tauseef Akram
	Tel: +92-42-3592-6072~4
	Fax: +92-42-3586-6340
	tauseef.akram@eastec.com.pk
	140-B, New Muslim Town, Lahore - 54600 Pakistan

THE MIDDLE EAST

COUNTRY	CONTACT INFO
LIBYA	BENESSA GROUP INC. Hajras Issa Tel: +218-91-373-3232 hajras.issa@benessagroup.com Main Airport Road, Tripoli, Libya, P.O. Box 6001
IRAN	PETRO SANAT SAPRA NAFISEH RAHMANI TEL : (+98) 21-2214-6239 rahmani@petrosapra.com Unit 206, No.3, Ahmad Moghaddas St. (11th Alley), Sa'adat Abad Blv., Tehran, Iran

AFRICA

COUNTRY	CONTACT INFO
SOUTH AFRICA	BLANES INSTRUMENTS Paul Dhooge TEL: +2711-425-1465 FAX: +2786-604-5381 paul@blanes.co.za 130 B President Pretorius St. Rynfield A/H Section 2. Benoni, Gauteng, South Africa
NIGERIA	ROCOTEX INTEGRATED SERVICES LTD Justin Egwin TEL: +234-8036671566 FAX:+234-8036671566 info@rocotexltd.com 36 EKERE STREET, RUMUOBIAKANI PORTHARCOURT RIVERS STATE. NIGERIA
EGYPT	THE EGYPTIAN CO. FOR TOOLS AND MECHANICAL MACHINERY MR. PAUL SALIB TEL: +202-59193380 FAX: +202-5921588 egtools@live.com 80 EL GOMHORIA STR CAIRO EGYPT

EUROPE

COUNTRY	CONTACT INFO
GERMANY	HEWALTECH UG(haftungsbeschränkt) HEINRICH GERULL TEL: +49 (0)40-609-44-89-91 FAX.: +49 (0)40-609-44-89-99 gerull@hewaltech.com LOTTBEKKOPPELN 4, 22395 HAMBURG, GERMANY
RUSSIA	NTA PROM Sales Department TEL: +7-495-363-63-00 info@nta-prom.ru HOUSE 8, STROENIE 1, NAUCHNYI PROEZD, MOSCOW 117246, RUSSIA
FRANCE	TECH TEAM DISTRIBUTION ENVIRONNEMENT Brigitte TEL: +3.22.75.33.40 FAX: +3-22-75-41-80 ttde@techteam.fr 9PLACE DU GENERAL DE GAULLE, 80300 ALBERT, FRANCE

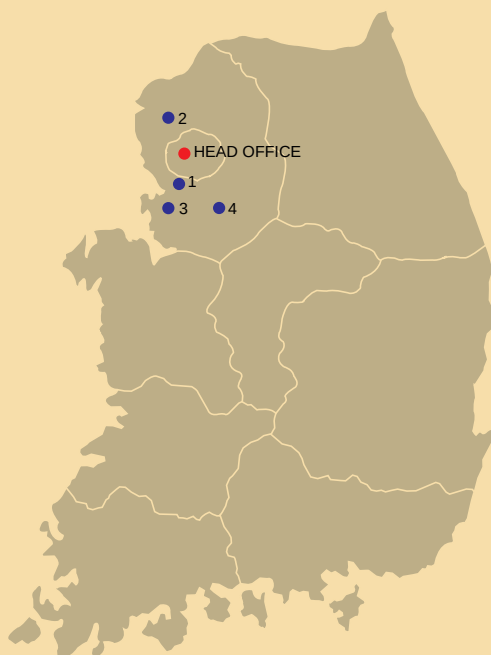
THE AMERICAS

COUNTRY	CONTACT INFO
UNITED STATES	AMETEK U.S GAUGE SALES DEPT. TEL: 1-215-293-4100 PRESS 2 FAX: 1-215-257-0205 usg.sales@ametek.com 205 KEITH VALLEY ROAD, HORSHAM, PA 19044 U.S.A. HESSE-REYNOLDS SALES SCOTT WAGNER TEL:(716)821-5921 swagner@hessereynolds.com 3370 NORTH BENZING ROAD ORCHARD PARK, NY 14127 U.S.A. SENTROL INC. TIM CROWLEY TEL : +1 508 830 0458 FAX : +1 508 830 0248 tcrowley@nesentrol.com 208 SO. MEADOW RD., UNIT 1, PLYMOUTH, MA 02360 K-TEK International, Inc. Tel. 503-624-0315 sales@ktekintl.com 9755 SW Commerce Circle Suite B2 Wilsonville, OR 97070 USA
CANADA	Enerfest, Inc. Cecilia Urate TEL: +1-403-261-8008 curate@enerfest.com Bay 6, 1511 Highfield Crescent SE, Calgary, AB, Canada T2G 5M4

SOUTH AMERICA

COUNTRY	CONTACT INFO
COLOMBIA	SEALCO Jaime Peraffan TEL: 574-3704700 FAX:574-2817327 jaimeperaaffan@gmail.com AV 37 B # 38 A 12 ITAGUI, 055412, COLOMBIA
PERU	3JR Ingenieros S.A.C. Ing. Jaime Valle Dett Tel: +51-1-261-0314 ventas@3jri.com Jr. José Mariano Arce 133(Ex Jr. Barcelona) Pueblo Libre, Lima 21-Perú

Company Location



HEAD OFFICE

19F, 181, Gasan digital 1-ro, Geumcheon-gu, Seoul, 08503,
Republic of Korea
Tel. +82-2-300-2300 Fax. +82-2-300-2301

FACTORY - 1

2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097,
Republic of Korea

FACTORY - 2

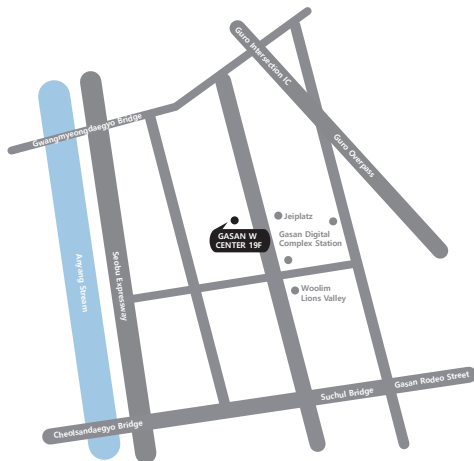
149, Hanroksan-gil, Tanhyeon-myeon, Paju-si, Gyeonggi-do, 10858,
Republic of Korea
Tel. +82-31-949-1043 Fax. +82-31-949-1041

FACTORY - 3

Sosa Plaza 204, 46, Gyeongin-ro 392 Beon-gil, Sosa-gu, Bucheon-si,
14693, Republic of Korea
Tel. +82-31-351-5751 Fax. +82-31-351-5754

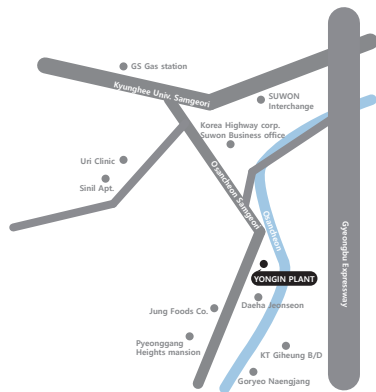
FACTORY - 4

5, Madogongdan-ro 4-gil, Mado-myon, Hwaseong-si, Gyeonggi-do,
18542, Republic of Korea
Tel. +82-31-812-6226 Fax. +82-31-812-6556



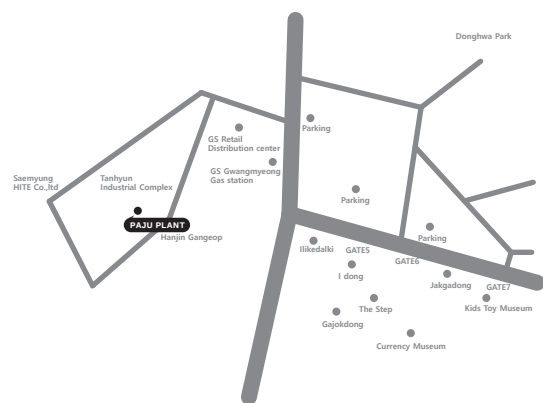
HEAD OFFICE

19F, 181, Gasan digital 1-ro, Geumcheon-gu, Seoul,
Republic of Korea
<http://www.wisecontrol.com>



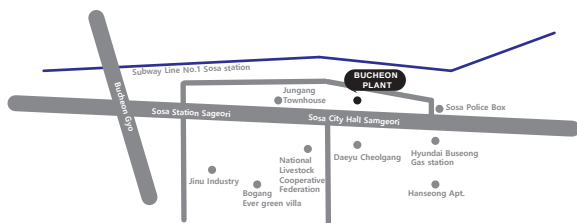
YONGIN PLANT FACTORY - 1

2022, Deogyong-daero, Giheung-gu, Yongin-si,
Gyeonggi-do, 17097, Republic of Korea
<http://www.wisecontrol.com>
PRODUCT. Pressure & Temperature Instruments



PAJU PLANT FACTORY - 2

149, Hanroksan-gil, Tanhyeon-myeon, Paju-si,
Gyeonggi-do, 10858, Republic of Korea
Tel. +82-32-328-1571 Fax. +82-32-328-6530
PRODUCT. Power transmission line hardware



BUCHEON PLANT FACTORY - 3

Sosa plaza 204, 46, 392-gil, Gyeongin-ro, Sosa-gu,
Bucheon-si, Gyeonggi-do, 14693, Republic of Korea
Tel. +82-32-351-5751~53 Fax. +82-32-351-5754
PRODUCT. General Service Pressure gauge



HWASEONG PLANT FACTORY - 4

5, Madogongdan-ro 4-gil, Mado-myon, Hwaseong-si,
Gyeonggi-do, 18542, Republic of Korea
Tel. +82-31-366-9237 Fax. +82-31-366-9238
PRODUCT. Level Gauge & Flow Elements

Distributors

SEOUL

COMPANY	CONTACT INFO
WISE WOJIN	TEL : 82-2-2614-5110 / 82-2-6443-5313 FAX : 82-2-2614-3001 / 82-2-6443-5419 #1808, Hanrasigeuma Valley 53, Gasan digital 2-ro, Geumcheon-gu, Seoul, 08588, Republic of Korea
DAE IL INSTRUMENT	TEL : 82-2-2279-1210 FAX : 82-2-2274-0451 3F, 145, Cheonggyecheonro, Jongro-gu, Seoul, 03193, Republic of Korea
WOJIN CENTER	TEL : 82-2-2157-1131~3 FAX : 82-2-2272-3442 #T-9147, Garden 5 Life, Munjeong 2-dong, Songpa-gu, Seoul, 05838, Republic of Korea
WOJIN TOTAL INSTRUMENT (GU-RO)	TEL : 82-2-2614-3442 FAX : 82-2-2619-3442 #1425 Ra-dong, 15, Gyeongin-ro 53-gil, Guro-gu, Seoul, 08217, Republic of Korea
ESAK CO.,LTD	TEL : 82-2-2028-0240 FAX : 82-2-2028-0250 #79, Magokjungang 8-ro, Gangseo-gu, Seoul, Republic of Korea
WOJIN CONTROL (GU-RO)	TEL : 82-2-2613-1560 FAX : 82-2-2613-1561 #1229 Ma-Dong, 15, Gyeongin-ro 53-gil, Guro-gu, Seoul, 08217, Republic of Korea
WORLD INSTRUMENT	TEL : 82-2-2685-7395 FAX : 82-2-2685-7397 #1425 Ma-dong, 15, Gyeongin-ro 53-gil, Guro-gu, Seoul, 08217, Republic of Korea
WISE INSTEC	TEL : 82-2-894-5031 FAX : 82-2-894-5033 #111, 29-dong, 97, Siheung-daero, Geumcheon-gu, Seoul, 08638, Republic of Korea

INCHEON

COMPANY	CONTACT INFO
WOJIN INSTRUMENT CONTROL	TEL : 82-32-589-1766 FAX : 82-32-589-1769 #9-136, 23, Bangchuk-ro 83beon-gil, Dong-gu, Incheon, 22530, Republic of Korea

GYEONGGI

COMPANY	CONTACT INFO
BOO SUNG INSTRUMENT & ELECTRIC	TEL : 82-31-479-2193 FAX : 82-31-479-2190 #215, 1-dong, 76, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14117, Republic of Korea
AUTO SENSOR KOREA	TEL : 82-31-278-6292 FAX : 82-31-278-6293 #703, 97, Jungbu-daero 448beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
UTS CO.,LTD	TEL : 82-31-278-5721 FAX : 82-31-227-5714 61, Giandong-ro, Hwaseong-si, Gyeonggi-do, 18339, Republic of Korea
DAE JOO INSTRUMENT	TEL : 82-31-248-1581 FAX : 82-31-248-1584 25, Paldalmun-ro 93beon-gil, Paldal-gu, Suwon-si, Gyeonggi-do, 16244, Republic of Korea

GYEONGGI

COMPANY	CONTACT INFO
WISE TECH CO.,LTD	TEL : 82-31-280-5053 FAX : 82-31-283-2523 #906, 767, Sinsu-ro, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea
WOOJIN INSTRUMENT CO., LTD	TEL : 82-2-3452-5517 FAX : 82-2-8065-4833 #1601, Tower-dong, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 16954, Republic of Korea
WISE ENGINEERING CO.,LTD	TEL : 82-31-280-5057 / 5079 FAX : 82-31-283-5080 #901, 103-dong, 486-1, Sin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
WOOJIN CONTROL CO.,LTD	TEL : 82-31-287-2141 / 82-41-358-2141 FAX : 82-31-287-2143 / 82-41-358-2143 #202-11, 9, Geumhwa-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
WISE INSTRUMENT	TEL : 82-31-283-3944 / 82-31-284-3944 FAX : 82-31-282-3944 71-19, Jungbu-daero 747beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
WOOJIN KOREA	TEL : 82-31-463-3000 FAX : 82-31-463-3002 #1009, A-dong, 282, Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, Republic of Korea
WISE INC	TEL : 82-31-492-7815 FAX : 82-31-492-7816 #324, 12-dong, 326, Sandan-ro, Danwon-gu, Ansan-si, Gyeonggi-do, 15431, Republic of Korea
DONG A MANAGEMENT & TECH CO.,LTD	TEL : 82-31-251-4247 FAX : 82-31-251-4249 2F, 22, Sinwon-ro 247beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16676, Republic of Korea
WOOJIN Measurement & Instrument CO., LTD.	TEL : 82-31-430-6641 FAX : 82-31-430-6640 #123, 12-Dong, Siwha Yootong Sangga, Jeongwang-dong, 244, Gongdan 1-daero, Siheung-si, Gyeonggi-do, 15103, Republic of Korea.
WOOJIN INSTRUMENT (GYEONG GI)	TEL : 82-31-225-9158 FAX : 82-31-225-9157 #113, 103-dong, 109, Wauan-gil, Bongdam-eup, Hwaseong-si, Gyeonggi-do, 18298, Republic of Korea
SENTROL	TEL : 82-31-430-6567 FAX : 82-31-430-6569 #126, 4-Dong, 244, Gongdan 1-daero, Siheung-si, Gyeonggi-do, 15103, Republic of Korea
WISE SENSOR	TEL : 82-31-287-3337 FAX : 82-31-287-3339 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Republic of Korea
SENTROL SYSTEM CO.,LTD	TEL : 82-31-337-5446 FAX : 82-31-337-5448 #814, B-dong, 282, Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, Republic of Korea

CHUNGCHEONG

COMPANY	CONTACT INFO
SHIN JIN INSTRUMENT & ENGINEERING	TEL : 82-41-576-3154 FAX : 82-41-576-3155 #314, 10, Baekseokgongdan 1-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Republic of Korea
SEO HO CORPERATION (Chungcheongbuk-do)	TEL : 82-43-237-9325 FAX : 82-63-214-9328 586, Hyeoksin-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea

DAEJEON

COMPANY	CONTACT INFO
DAE SUNG INSTRUMENT & ENGINEERING	TEL : 82-42-634-4795
	FAX : 82-42-634-4796
	19, Ojeong-ro 99beon-gil, Daedeok-gu, Daejeon, 34440, Republic of Korea

DAEGU

COMPANY	CONTACT INFO
DAE MYUNG F.A CO.,LTD	TEL : 82-53-558-8101
	FAX : 82-53-558-8106
	218, Seodaegu-ro, Seo-gu, Daegu, 41770, Republic of Korea
WOOJIN TOTAL INSTRUMENT (DAE GU)	TEL : 82-53-254-7401
	FAX : 82-53-253-7401
	32, Bukseong-ro, Jung-gu, Daegu, 41921, Republic of Korea

ULSAN

COMPANY	CONTACT INFO
SUN-IL INSTRUMENT	TEL : 82-52-267-8910
	FAX : 82-52-267-8912
	5-4, Sangnam 2-gil, Sangnam-ri, Cheongnyang-myeon, Ulju-gun, Ulsan, Republic of Korea
WOOJIN INSTRUMENT & ELECTRIC	TEL : 82-52-276-8428
	FAX : 82-52-276-8430
	#145~6, 24, Galbat-ro, Nam-gu, Ulsan, 44717, Republic of Korea
WOOJIN INSTRUMENT (UL SAN)	TEL : 82-52-268-0992
	FAX : 82-52-266-0991
	#120, Galbat-ro, Nam-gu, Ulsan, 44717, Republic of Korea
SEIN TECH CO.,LTD	TEL : 82-52-287-0601
	FAX : 82-52-287-0604
	55, Hwadong 15-gil, Buk-gu, Ulsan, 44240, Republic of Korea

BUSAN

COMPANY	CONTACT INFO
WOOJIN INSTRUMENT CORPORATION	TEL : 82-51-319-1255~7
	FAX : 82-51-319-1258
	#101, 13-dong, 37, Gwaegam-ro, Sasang-gu, Busan, 46977, Republic of Korea

GYEONGSANG

COMPANY	CONTACT INFO
SAMWOO INSTRUMENT CO.,LTD	TEL : 82-55-245-6661~4 FAX : 82-55-247-2681 3, Sanhonam 12-gil, Masanhappo-gu, Changwon-si, Gyeongsangnam-do, 51331, Republic of Korea
SAMWOO INSTRUMENT & TECHNOLOGY	TEL : 82-55-276-6661 FAX : 82-55-276-6619 2F, 3, Sanhonam 12-gil, Masanhappo-gu, Changwon-si, Gyeongsangnam-do, 51331, Republic of Korea
IL-SUNG INSTRUMENT & ELECTRIC	TEL : 82-54-278-4241 FAX : 82-54-278-4249 6, Jungheung-ro 58beon-gil, Nam-gu, Pohang-si, Gyeongsangbuk-do, 37771, Republic of Korea

GWANGJU

COMPANY	CONTACT INFO
TPL	TEL : 82-62-953-4390~1 FAX : 82-62-953-4392 #303, B-dong, 138, Hanamsandan 3beon-ro, Gwangsan-gu, Gwangju, 62231, Republic of Korea

JEOLLA

COMPANY	CONTACT INFO
IL-SUNG INSTRUMENT & ELECTRIC	TEL : 82-61-792-6578 / 82-61-792-8792 FAX : 82-61-792-6579 46-1, Geumnyeong-ro, Gwangyang-si, Jeollanam-do, 57722, Republic of Korea
WISE CONTROL LIMITED COMPANY (JEOLLANAM-DO)	TEL : 82-61-685-9900 FAX : 82-61-685-9903 980, Jwasuyeong-ro, Yeosu-si, Jeollanam-do, 59631, Republic of Korea
SEO HO CORPERATION	TEL : 82-63-214-9325 FAX : 82-63-214-9328 114, Yeosan-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, 54852, Republic of Korea
SI & N Co.,Ltd.	TEL : 82-63-291-6900 FAX : 82-63-291-9911 273-2, Ongoeul-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, 54876, Republic of Korea

YONGIN PLANT

2022, Deogyong-daero, Giheung-gu, Yongin-si,
Gyeonggi-do, 17097, Republic of Korea
<http://www.wisecontrol.com>
PRODUCT. Pressure & Temperature instruments

PAJU PLANT

149, Hanroksan-gil, Tanhyeon-myeon, Paju-si,
Gyeonggi-do, 10858, Republic of Korea
PRODUCT. Power transmission line hardware

BUCHEON PLANT

122, Jomaru-ro 385beon-gil, Bucheon-si, Gyeonggi-do, 14556,
Republic of Korea
PRODUCT. General Service Pressure gauge

HWASEONG PLANT

5, Madogongdan-ro 4-gil, Mado-myon, Hwaseong-si,
Gyeonggi-do, 18542, Republic of Korea
PRODUCT. Level Gauge & Flow Elements

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