

# The Best Solution for Fire Detection System



# About **REZONTECH** CO., LTD.

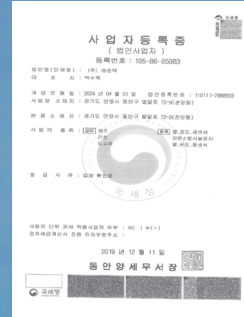
**Rezontech Co., Ltd.** is a leading company in the field of flame detectors based on accumulated technology and is doing its best to create a "safe Korea" today.

## History

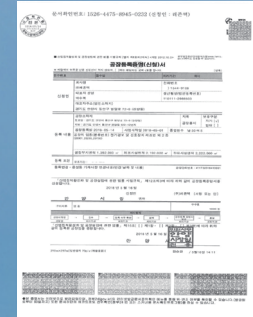
- 2023** - Awarded 3 Million Dollars Export Tower
- 2020** - Developed of explosion proof test lamp and Obtained KCs certification  
- Designated as Global Small Giant Company
- 2019** - Received a citation for development of venture business by the Gyeonggi-do
- 2018** - Moved to the new company office building
- 2016** - Awarded a Million Dollars Export Tower  
- Commendation of Industrial Convergence of Ministry of Trade, Industry & Energy  
- Commendation of KBIZ (Korea Federation of SMEs)
- 2015** - Korea Fire Safety Award of KFI (Korea Fire Institute)  
- Ministry of Commerce, Industry and Energy  
Designated 4 new flame detectors
- 2014** - Obtained DQ mark (Defence Quality) of DTaQ (Defence Agency for Technology and Quality)  
- Leading Companies of Industrial Convergence of Ministry of trade, industry & energy  
- Obtained EPC (Excellent Performance Certification) of SMBA(Small and Medium Business Administration)  
- Obtained IECEx (International Explosive Atmospheres) approval  
- Obtained 5 patents (Patent Office)
- 2013** - Obtained ATEX Explosion proof approvals(IR3)  
- Obtained CCC approval for China
- 2012** - Obtained FM approvals (Hydrogen UV/IR, Triple IR)  
- Awarded the Korea Safety Grand Prize of NEMA (National Emergency Management Agency)
- 2011** - Designated as G-FAMILY Company (Gyeonggi Small and Medium Business Center)  
- Designated as INNOBIZ Company (Small & Medium Business Administration)
- 2010** - Obtained FM approvals(UV/IR) / Asia and South Korea First  
- Commendation of Ministry of Public Administration and Security
- 2009** - Designated as Venture Enterprise (KIBO)
- 2008** - Obtained Automatic Extinguisher System (AES) Type approval  
- Established affiliated Institute of disaster prevention equipment
- 2007** - Obtained ISO 9001 Certification  
- Obtained ISO 14001 Certification
- 2006** - Development & production of portable flame simulator for UV/IR  
- Development & production of portable flame simulator for Triple IR(World's First)
- 2005** - Pyong-taek LNG facility F&G system type approval (The only in Korea)  
- Performance test completed based on Europe(CE) regulation (The first in Korea)
- 2004** - Foundation of Rezontech Co., Ltd.  
Triple IR(IR3) flame detector type approval (The first in Korea)



# Company Registration Certificate



BUSINESS LICENSE



FACTORY REGISTRATION  
CERTIFICATE

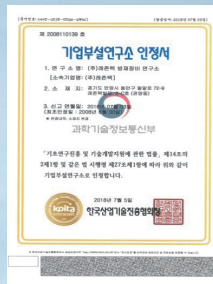
# Certification & Awards



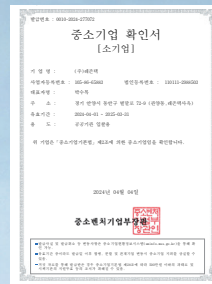
ISO 14001



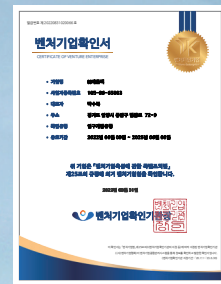
ISO 9001



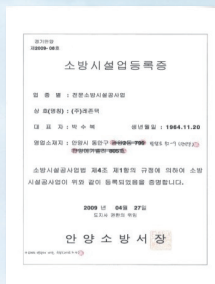
R & D CENTER  
CERTIFICATE



SMALL AND  
MEDIUM BUSINESS  
CERTIFICATE



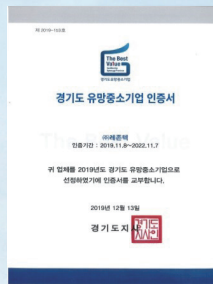
DESIGNATED  
AS VENTURE  
ENTERPRISE (KIBO -  
TECHNICAL FUND)



FIREFIGHTING  
FACILITY BUSINESS  
REGISTRATION  
CERTIFICATE



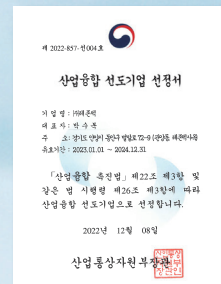
INNOBIZ



PROMISING  
SMALL AND  
MEDIUM BUSINESS  
CERTIFICATE



DESIGNATED AS  
GLOBAL SMALL  
GIANT COMPANY



LEADING  
COMPANIES OF  
INDUSTRIAL  
CONVERGENCE



# Certification Status

 CE APPROVAL

 ATEX APPROVAL

 CPR EN54-10

 GOST-R APPROVAL

 NEPSI APPROVAL

 CFS APPROVAL

 PESO APPROVAL

 CFS APPROVAL

 IEC IECEx APPROVAL

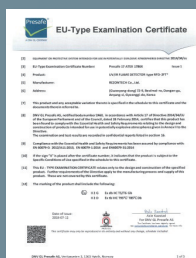
 KFI APPROVAL

 KGS APPROVAL

 FM APPROVAL

 FMUS APPROVAL

## GLOBAL Certification



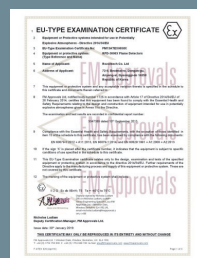
ATEX



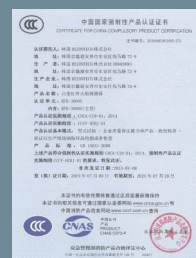
LPCB



FM



FM US



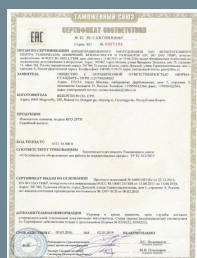
CCC



NEPSI



TUV



GOST-R



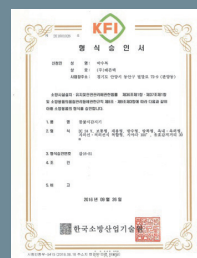
PESO



IECEx



CPR EN54-10



KFI

# Performance

Domestic Business

Global Business



## Overseas Sites and Customers



ABB	Johnson Controls	Greeneco	Intel Fab	Huayi Polymer	Formosa Petrochemical	LUKOIL	Formosa Plastics Group
G-techeng ineering	Manila Bay	Hyundai Motors	LANXESS Energizing	POSCO Maharashtra	EVA Airline	Kahramaa	Taipei City
AREKTech Ltd	Siemens	SATE Chemical	Mapa Gloves	Samsung	Umm Al Houli Power	Hyundai Heavy Industries	Taiwan Power Company
Energypac Shylet	Suzuki Motors	Barutsan	SK Hynix	Petrohemija	Bitumat	Hochiki America	Toyota Motors
Total Cambodge	Wrigley	BASPARAN	Zhongran Oil	Aydun Ken	SaudiElectrical Co.(SEC)	OGDCL	COLGAS
BASF	EHCP NALCO	Dalim	Indian Oil	Petrolimex GAS	Department of National Defense	Picotrack	Talimarjan
CEPSA Chemical	Jurong Island	I.C.O.F.C	LG Chem	Port of Melbourne	Local Manufacturer	PETRONAS	PT.Indofood TBK
Datang	NALCO	Khuzestan Steel Co.	Electricity's Government	HENKEL Chemical	Tampines	DEWA	Hyundai Kalsel
Dow Chemical	Progress M & E	TAKHTE JAMSHID	Holcim	HuaYang Petro	CPC Taoyuan	KOGAS	PLTU Tarahan

# UV/IR FLAME DETECTOR



## RFD - 2000X

**Type** | UV/ IR  
**Model** | RFD-2000X  
**Detection Range** | 98.5ft(30m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity

**Enclosure Material** | SUS 316  
**Dimensions** | W134 H117 D120mm  
**Weight** | 3.2kg  
**Response** | Typically 5 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (17 VDC to 32 VDC)  
**Power Consumption** | 1.8W maximum at 32VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm)  
 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 1/2 inch NPT, M20 X 1.5P

### APPROVALS

**Performance** | FM3260, CPR EN54-10  
**Explosion-Proof** | FM Class I Division 1 Groups B, C and D, Class II Division 1 Groups E, F and G, Class III, ATEX/IECEx Ex db IIB + H2, T6  
**Protection** | IP67, NEMA Type 4X



## RFD - 2FTN-I

**Type** | UV/ IR  
**Model** | RFD-2FTN-I  
**Detection Range** | 98.5ft(30m)  
**Field Of View** | H100° V100°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity

**Enclosure Material** | Aluminum 6061  
**Dimensions** | W64 H64 D75mm  
**Weight** | 0.53kg  
**Response** | Typically 7 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (17 VDC to 30 VDC)  
**Power Consumption** | 5.8W maximum at 32VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm)  
 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 1 x 1/2 inch NPT

### APPROVALS

**Performance** | FM3260, KFI, FM, CCC (RFD-2FTN)  
**Explosion-Proof** | ATEX, NEPSI (RFD-2FTN)  
 ATEX Ex db IIC T6 / T5 Gb  
 ATEX Ex tb IIIC T85°C / T95°C Db  
**Protection** | IP66, IP67

## RFD - 2000

**Type** | UV/ IR  
**Model** | RFD-2000  
**Detection Range** | 98.5ft(30m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity

**Enclosure Material** | Aluminum Alloy  
**Dimensions** | W150 H125 D103mm  
**Weight** | 1.8kg  
**Response** | Typically 5 seconds

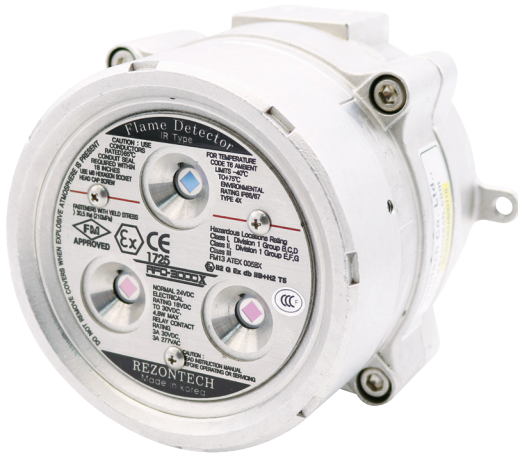
### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (17 VDC to 32 VDC)  
**Power Consumption** | 1.8W maximum at 32VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm)  
 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 1/2inch PF.

### APPROVALS

**Performance** | FM3260  
**Protection** | IP67, NEMA Type 4X

# TRIPLE IR FLAME DETECTOR



## RFD - 3000X

**Type** | IR3  
**Model** | RFD-3000X  
**Detection Range** | 197ft(60m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity

**Enclosure Material** | SUS 316  
**Dimensions** | W134 H117 D112mm  
**Weight** | 4kg  
**Response** | Typically 5 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (18 VDC to 30 VDC)  
**Power Consumption** | 4.5W maximum at 30VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm)  
 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 1/2" NPT, M20 X 1.5P

### APPROVALS

**Performance** | FM3260, CCC, KFI  
**Explosion-Proof** | FM Class I Division 1 Groups B, C and D Class II Division 1 Groups E, F and G Class III, ATEX/IECEx/NEPSI Ex db IIB + H2, T5  
**Protection** | IP66, IP67, NEMA Type 4X



## RFD - 3000

**Type** | IR3  
**Model** | RFD-3000  
**Detection Range** | 197ft(60m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity

**Enclosure Material** | Aluminum Alloy  
**Dimensions** | W150 H103 D125mm  
**Weight** | 1.7kg  
**Response** | Typically 5 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (18 VDC to 30 VDC)  
**Power Consumption** | 4.5W maximum at 30VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm)  
 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 1/2 inch PF

### APPROVALS

**Performance** | FM3260, CCC  
**Protection** | IP67, NEMA Type 4X

# HYDROGEN FLAME DETECTOR



## RFD-2FTN-H

**Type** | UV/IR & Hydrogen  
**Model** | RFD-2FTN-H  
**Detection Range** | 65.6ft (20m) for N-Heptane fire  
 49ft (15m) for Hydrogen 32" Plume  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity  
**Enclosure Material** | Aluminum  
**Dimensions** | W64 H64 D75 mm  
**Weight** | 0.6kg  
**Response** | Typically 15 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24VDC (17VDC to 30VDC)  
**Power Consumption** | 70mA (maximum 180mA)  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm), 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 1 x 1/2 inch NPT

### APPROVALS

**Performance** | FM3260  
**Explosion-Proof** | ATEX (Presafe 17 ATEX 1786X), Ex II2 GD, Ex db IIC T6/T6 Gb  
 Ex tb IIIC T85°C/T95°C Db  
**Protection** | IP66, IP67



## RFD - 2000X-H

**Type** | UV/IR & Hydrogen  
**Model** | RFD-2000X-H  
**Detection Range** | 98.5ft (30m) for n-Heptane fire  
 15ft(4.5m) for Hydrogen fire (30 inch plume)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to +75°C  
**Humidity Range** | Up to 95% relative humidity  
**Enclosure Material** | SUS 316  
**Dimensions** | W134 H117 D120mm  
**Weight** | 3.2kg  
**Response** | Typically 5 seconds

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (17 VDC to 32 VDC)  
**Power Consumption** | 1.8W maximum at 32VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm), 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 1/2" NPT, M20 X 1.5P

### APPROVALS

**Performance** | FM3260, KFI  
**Explosion-Proof** | FM Class I Division 1 Groups B, C and D Class II Division 1 Groups E, F and G Class III, ATEX Ex db IIB + H2, T6  
**Protection** | IP67, NEMA Type 4X

# TEST LAMP

Rezontech test lamp is designed to test our flame detector within 30 seconds by producing particular frequencies at UV and IR radiation. Our test lamp is able to safely test in a hazardous areas without using actual fire.



## TL-CF2 (Explosion-Proof)

**Operation Distance** | 3m (Max. 5m)  
**Target Model** | UV/IR, IR3 Type  
**Operation Time** | Max. 1.2 hours  
**Dimensions & Weight** | About 3.5kg / 140mm X 255mm  
**Enclosure** | Aluminium (Anodizing Process)  
**Temperature Range** | Operating : 0°C to 40°C, Storage : -10°C to 50°C  
**Explosion Proof** | Ex d IIB+ H2 T5 IP66/67 (KCs)

# NEWLY RELEASED FLAME DETECTOR



## RFD-5000X

**Type** | UV/IR  
**Model** | RFD-5000X  
**Detection Range** | 98.5ft (30m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to + 80°C  
**Humidity Range** | Up to 95% relative humidity  
**Response** | Typically 5 sec  
**Enclosure Material** | Aluminum  
**Dimensions** | W146 H118 D108mm  
**Weight** | 2.4 kg

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC (18 VDC to 30 VDC)  
**Power Consumption** | 3.6W maximum at 30 VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm), 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 3/4 inch NPT

### APPROVALS

**Performance** | EN54-10 (pending) FM3260 (pending)  
**Explosion-Proof** | ATEX, IECEx, Ex db II C T6...T4 Gb,  
 Ex tb III C T85°C...T100°C Db  
**Protection** | IP66, IP67



## RFD-6000X

**Type** | IR3  
**Model** | RFD-6000X  
**Detection Range** | 213ft (65m)  
**Field Of View** | H90° V90°  
**Operating Temperature Range** | -40°C to + 80°C  
**Humidity Range** | Up to 95% relative humidity  
**Response** | Typically 5 sec  
**Enclosure Material** | Aluminum  
**Dimensions** | W145 H118 D107mm  
**Weight** | 2.4 kg

### ELECTRICAL SPECIFICATION

**Operating Voltage** | 24 VDC ((18 VDC to 30 VDC)  
**Power Consumption** | 3.6W maximum at 30 VDC  
**Output** | Relay Contacts (Fire, Fault, Warning Alarm), 4-20mA Current Output  
 RS-485 Proprietary Communication  
**Conduit Entry Size** | 2 x 3/4 inch NPT

### APPROVALS

**Performance** | EN54-10, FM3260 (pending)  
**Explosion-Proof** | ATEX, IECEx, Ex db II C T6...T4 Gb,  
 Ex tb III C T85°C...T100°C Db  
**Protection** | IP66, IP67

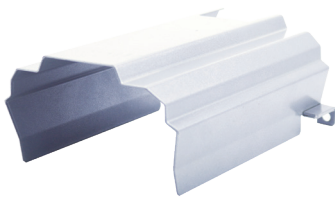
# Flame Detector Accessories



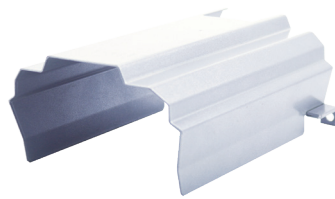
Braket	
Model	BK-01
Size	70mmX138mm
Weight	280g
Material	Aluminum(Diecasting), Nickel plating
Application Model	RFD-2FTN
Usage	Adjustable of 360 degree for optimized installation
Angular adjustment	Vertical 180° (Up90° Down90°) Horizontal 180° (Left90° Right90°)



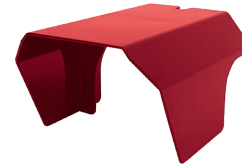
Braket	
Model	BK-02
Size	100mmX276mm
Weight	1kg
Material	SUS316
Application Model	RFD-2000X, 3000X, 2000X-H 2000, 3000
Usage	Adjustable of 360 degree for optimized installation
Angular adjustment	Vertical 180° (Up90° Down90°) Horizontal 180° (Left90° Right90°)



Sun Shield	
Model	RSC-05
Size and material	140(W) X 150(D) X 90(H)mm, SUS
Application model	RFD-2000X, 3000X
Usage	To protect Flame Detectors from Sunlight and rain at an outdoor site.



Sun Shield	
Model	RSC-06
Size and material	140(W) X 150(D) X 90(H)mm, SUS
Application model	RFD-2000, 3000
Usage	To protect Flame Detectors from Sunlight and rain at an outdoor site.



Sun Shield	
Model	RSC-08
Size and material	95(W) X 137(D) X 68(H)mm, SUS
Application model	RFD- 5X , 6X , 2TN , 2FTN , 2FT5-I, 3T, 3FT
Usage	To protect Flame Detectors from Sunlight and rain at an outdoor site.



Air Shield	
Model	RF-A-02
Size	5(W) X 50(D) X 20(H) mm
Application model	RFD-2TN, 2FTN, 2FT5-I, 3T
Usage	To prevent contamination of the sensing window, minimize adsorption of substances by air injection of air curtain



Air Shield	
Model	RF-A-2000X
Size	5(W) X 50(D) X 20(H) mm
Application model	RFD-2000X
Usage	To prevent contamination of the sensing window, minimize adsorption of substances by air injection of air curtain



Air Shield	
Model	RF-A-3000X
Size	70(W) X 83(D) X 105(H) mm
Application model	RFD-3000X
Usage	To prevent contamination of the sensing window, minimize adsorption of substances by air injection of air curtain

# Gas Detector



Model	DA100
Measuring type	Diffusion type
Measuring gas	Combustible Gas (CH <sub>4</sub> , H <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> )
Measuring method and range	Catalytic combustion method, 0-100% LEL
Size and material	150(W)×112(D)×173(H)mm Housing: Aluminium Sensor head: SUS316
Output	4-20mA (Option : Relay, RS-485)
Dust explosion-proof	Ex db IIC T6/T4 · IP66 Ex tb IIIC T85°C, T135°C Db
Explosion/Water-proof	KCs, ATEX , IECEx
EMC certificate	KC,CE



Model	DB100
Measuring type	Diffusion type
Measuring gas	Toxic gas: CO, H <sub>2</sub> S, CL <sub>2</sub> / O <sub>2</sub>
Measuring method and range	Electro-Chemical Type (Toxic and Oxygen) / Galvanic type(Oxygen) 0~α ppm(Toxic)/ 0~25% vol (Oxygen)
Size and material	150(W)×112(D)×184(H)mm Housing: Aluminium Sensor head: SUS316
Output	4-20mA (Option : Relay, RS-485)
Dust explosion-proof	Ex db IIC T6/T4 · IP66 Ex tb IIIC T85°C, T135°C Db
Explosion/Water-proof	KCs, ATEX , IECEx
EMC certificate	KC,CE



Model	DB100 (VOC)
Measuring type	Diffusion type
Measuring gas	VOC Gas
Measuring method and range	PID(Photo Ionization Detector) 0 ~ 10 ppm, 0 ~ 5000ppm
Size and material	150(W)×112(D)×184(H)mm Housing: Aluminium Sensor head: SUS316
Output	4-20mA (Option : Relay, RS-485)
Dust explosion-proof	Ex db IIC T6/T4 · IP66 Ex tb IIIC T85°C, T135°C Db
Explosion/Water-proof	KCs, ATEX , IECEx
EMC certificate	KC,CE



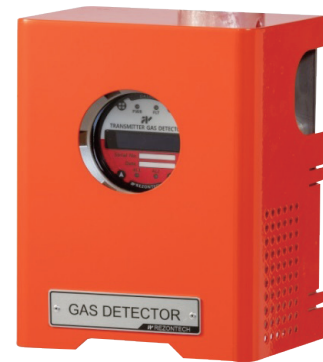
Gas detector receiver

Model	CA100 ALARM MONITOR
Measuring display	4-Digit FND digital display 30 LED Bar-Graphic unit display : %VOL,PPM,%LEL
Measuring range	1~9999 setable
Alarm Settings	Changing the alarm rate in 1st, 2nd, 3rd, LED Bar-Graphic
Alarm Display	Error, 3step Alarm LED
Auditory alarm	90dB(Buzzer)
Output signal	4-20mA DC(Option : RS-485)
Size and material	36.5(W)×116(D)×138(H)mm, ABS Plastic



Explosion-proof beacon
















Gas detector accessories	
Model	WE100
Size and material	89(W)×93.5(D)×46(H)mm, SUS316
Usage	Display detector status(Green, Yellow, Red)
Explosion/Water-proof	Ex d IIC T6
Explosion-proof certificate	KCs



Rain cover

Gas detector accessories	
Model	RC100
Size and material	179(W)×240(D)×125(H)mm, SUS304
Usage	Protecting against external environmental factors and for uniformity of detector performance

# PRODUCT LINE-UP

Category	Model Name	Specification			Photos	Approvals	
		Type	Range	Field of View		Performance	Explosion Proof
FM Approval Flame Detector	RFD-2000	UV / IR	30m	90°		FM	-
	RFD-2000X	UV / IR	30m	90°		FM	FM ATEX IECEX
	RFD-2000X-H	UV / IR	30m	90°		FM	FM ATEX
	RFD-3000X	IR3	60m	90°		FM CCC KFI	FM, ATEX IECEX NEPSI (CNEX)
	RFD-3000	IR3	60m	90°		FM CCC	-
	RFD-2FTN-H	UV / IR	20m	90°		FM	ATEX
	RFD-2FTN-I	UV / IR	30m	100°		FM	ATEX
	RFD-2FTN	UV / IR	30m	100°		CCC	NEPSI (CNEX)
	5000X	UV/IR	30m	90°		FM (pending)	ATEX IECEX
	6000X	IR3	50m	90°		FM (pending)	ATEX IECEX
KFI Approval Flame Detector	RFD-2TN	UV / IR	30m	100°		KFI	-
	RFD-5X	UV / IR	30m	100°		KFI	KCs
	RFD-6X	IR3	50m	90°		KFI	KCs
	RFD-3FT	IR3	30m	90°		KFI	KGS
	RFD-3T	IR3	50m	90°		KFI	-

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