FIREKIM CERTIFICATE



Certificates



Innovative Product Certificate

- Innovative Product Appointment Certificate

EPC Performance Certificate Venture Firm Certificate

KFI Certificate



Certified for KC and CE



	7
We, FIREKIM CO.,Ltd.	
48, Jungsimsangeop 2-ro, Ochang-cup, Cheengwon-gu, Cheengju-si,	
Chungcheangbuk-da, Republic of Korea	
declare under our sole responsibility that the following product :	
Product Name : STICK Sensor+	
Model number : STM	
Additional Model(s) : ST, SM, S, TM, T, M	
EC Directives	
Applicable : EN 61000-6-4:2007+A1:2011	
Standards EN 61000-6-2:2005+AC:2005	
EN 61010-4-2:2009	
EN 61000-4-3:2006+A1:2008+A2:2010	
EN 61000-4-4:2012	
EN 61000-4-4:2012 EN 61000-4-6:2014	
EN 61000-4-6:2014	(6

-	DISCIPLINE PRODUCT	KIDP	
	STICK FSC130	특영서 Certificati	
SN RD	Automatic fire extinguishing system		Ŷ
	DESSE 1985/00 Koll Priva 701 Cheorgia d, Dungheong buk-da, Republic of Kona Clearry J. Walker ACLURE 1985/00 Cheorgia d, Chungheong buk-da, Republic of Kona	업체법 사업차용등관련: 주소 신입인도 순분부분 순분약(K, 관도 도입법	 4 4) △ △
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IF Design Certificate GD Certificate

KIDP	DB OI	지 1/1
ब श्चम Certificat	e of Confirmation	
	우수디자인(GD)상품선정 선정확인서 _	
	비~(이 집[주]	
사업자동독령	8. 219880662	
7.6	승적 성부서 열린구 모양을 운영생임(21.44 (중소개발성)	
2862	G2015ABD-08008	
0105	2019	
****	제품티자인 > 산업기계 및 공구	
全景型(水道工	명) 스덕 생부들러스	
光道道	스위 웹사준비스	
11441418	5-19 E	
	1업디자인전총업 제6조의 단장에 위하여 우수디자인(GD)으로 선정되었음을	
하인합니다.		
	Kico 한국대적인전동원 원장 운 주 현 [26] 월전 [25] 월전	
	EUNE Julyun President & CEO, Korea Institute of Design Promotion	

FIREKIM

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NEW STING ARD OF FIRE NG SYSTEM

FIREKIM COMPANY

ABOUT FIREKIM

We make products that save human lives

FIREKIM makes the 'products for saving human lives' with creative and advanced technologies. We keep our future life and culture by means of innovative products and contribute to healthy daily life with creative idea.

Company	FIREKIM	Representative	Kim Byung Yeol
Establishment Date	December 09, 2016	Homepage	www.firekim.co.kr
Factory	Ohchang-eup, Chungju City Chungcheongbuk-do, Korea	Headquarters	Suite 208, 2nd floor, 48 Jungshim Sangeup 2–ro, Ohchang–eup, Chungwon–gu Chungju City, Chungcheongbuk–do, Korea
Paid-in capital	100 million Won	Employee	10

GLOBAL NETWORK

30 Public Administration and Public Organization



MRO and Dealer Shop

and Startups Agency, Korea Gas Safety Corporation, Korea Internet & Security Agency, Korea Western

Korea Electric Power Corporation, eNtoB, E-Land Service, Happynarae, Kokam, LG Houses, LG Chem, SKT, Chungju City Hall, Korea SMEs Serveone, Korea b2b, iMarketKorea, Nexen Corporation, SK Hynics, SK Hyundai Motors VAATZ

Construction, Hanju, Hyundai Heavy Industries, Lotteria, Lotte Food, E-Mart, Coca Cola, POSCO, S&I, Samsung SDI, Panduit and etc.

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Private Enterprise



FIREKIM CLIENT

SMART CAPSULE

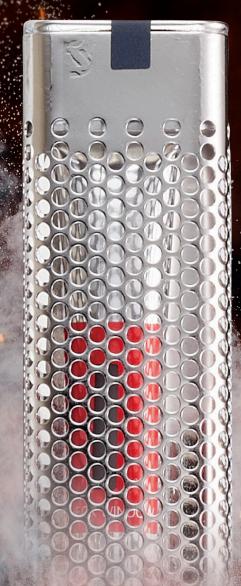
Temperature sensing function built-in non-powered product. It emits the chemicals through reacting of capsule inside the stick to the temperature reached to 100-110℃.

NOVEC 1230 AGENT

Currently existing highest environment friendly extinguishing chemical sustainable not impacted with the global greenhouse gas reduction policies.

INNOVATIVE DESIGN

Innovative design awarded the prize of design in 2019 IF Design Awards and stainless steel exterior for function and durability.



Patent : 10-1857775

Design : 30-0907732



STICK

Downsized Extinguishing Stick (Protective volume 0.05 m³)

- · Applicable for small space
- · Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties · Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds

Model	Size (WxHxL)	Chemical volume	NFPA standard protective volume	Vlaximum he for installati
FSC130	25x15x130	16.0g	0.018m³	0.4m
FSC200	25x15x200	27.4g	0.031 m³	0.7m
FSC250	25x15x250	35.5g	0.041 m³	0.7m
FSC300	25x15x300	43.5g	0.050m³	0.7m

% Shelf-life: The shelf-life of the gas type fire extinguisher is for 7 years according to the operation regulations of Fire Extinguishing Industry Cooperative.

STICK SENSOR+

Downsized Extinguishing Stick (Protective volume 0.041 m³)

· Applicable for small space

• Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties

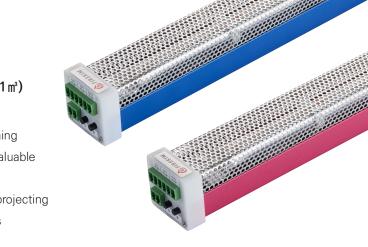
· Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds

Model	Size (WxHxL)	Weight	NFPA standard protective volume	Voltage/ Electric currer
FSS220 <mark>B</mark>	28x27x220	128g	0.027 m³	DC 24V/
FSS300 <mark>B</mark>	28x27x300	168g	0.041 m³	85mA

B Type Temperature, fume sensor (Output the checked data when the temperature and fume concentration reached to the set data) **A Type** B Type + Temperature monitoring function (Option)







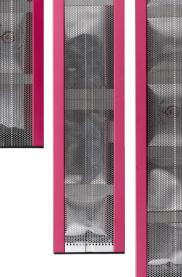
Control Output

- Extinguishing capsule state output Setting fume concentration Temperature output Temperature change output

RED BLOCK

Outsized Extinguishing Stick (Protective volume 1.215m³)

- · Applicable for medium and large space
- · Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties
- · Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds



Model	Size (WxHxL)	Weight	NFPA standard protective volume	Maximum height for installation	Voltage/ Electric current	Shelf-life	Firing class for using
FRB250N	103x43x250	0.7kg	0.09m³	0.8m	Non-powered		
FRB250 <mark>S</mark>	103x43x250	0.7kg	0.09m³	0.8m	DC 24V / 86mA		
FRB350N	103x43x350	0.9kg	0.36m³	1.0m	Non-powered	S type 5years	Class A Class B Class C
FRB350 <mark>S</mark>	103×43×350	0.9kg	0.36m³	1.0m	DC 24V / 86mA	N type 7years	
FRB500 N	103x43x500	1.8kg	1.215m³	1.5m	Non-powered		
FRB500 <mark>S</mark>	103x43x500	1.8kg	1.215m³	1.5m	DC 24V / 86mA		

5 Type Temperature and fune sensor (Output the checked data when the temperature and fume concentration reached to set data) **N Type** Regular type (Non-powered)

BIG STICK

New product for protective volume 0.15m³ and 0.3m³

Model	Size (WxHxL)	NFPA standard protective volume	Shelf-life	Voltage	Firing class for using
FBS300	45x30x300	0.15m³	5 Years	Non-	Class A Class B
FBS400	45x30x400	0.3m³	5 16415	powered	Class C



Available for developing customized products adjusted to the user's battery module size in variety

Available for ESS, xEV, small and middle size mobility, ship and defense industry



PRODUCT **APPLICATION**

Cases of installing at customer companies



Korea Electric Power Corp



Korea SMEs and Startups Agency LG Houses (Chamber unit)





Jongno Rice cake House at Sachang Market in Chungju City Market in Chungju City





Central Market in Jecheon City





Samsung Semi-conductor Hongduk District Office Sangdang District Office Junggae Elderly Hospital (Chiller unit)



Installed at Mokcheon pressuring plant of K-Water in Cheonan City

Installed electric panel inside LG Chem



Under way for test bed at Mokcheon pressuring plant in Cheonan City Installed (Inverter PNL No 1 and 2)