VISION ENGINEERING

Fire fighting Electric Construction

Fire Fighting Planning Fire Fighting Consulting Fire Fighting R&D Fire Fighting Construction

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Installation of 69 kV substation



[Photo electrical construction]

- Substation project 69kV
- 13.8kv cubicle
- Mold TR
- Control panel

Installation of 69 kV substation



[Photo electrical construction]

- Installation of high and low voltage cubicle
- Installation of lighting panel
- Installation of power panel
- condenser

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Installation of fire fighting



[Photo installation]

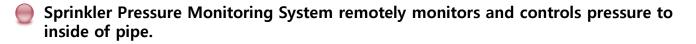
- Central valve
- Alarm valve
- Test valve
- Installation of Sprinklers

Installation of fire fighting



[Photo electrical construction]

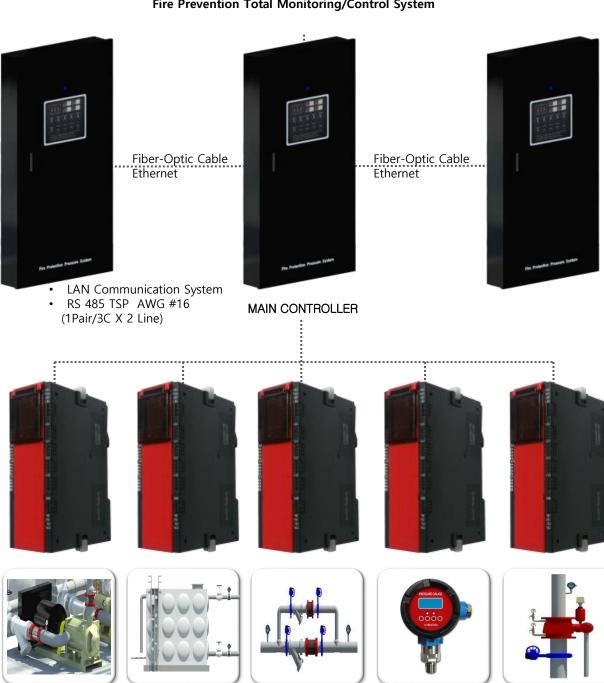
- Valve of repression
- Installation kit transmitter and fight fire Hydrant
- Monitoring system
- Monitoring system transmitter (NOTIFIRE)



Sprinkler Pressure Monitoring System is Fire Alarm Total Solution System that is not be supported in Conventional Fire Alarm System.



MOBILE REMOTE MONITOR



Fire Prevention Total Monitoring/Control System

Product Composition

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Fire Alarm Control Panel

	Composition	Fire Alarm Control Panel + 3D Graphic CRT		
	FACP Size	650(W) x 1300(H) x 200(D)		
	Power	Commercial electricity AC 220V – Battery 24V(120minutes)		
	Circuit	basic 31Point X 10CH X 10Board(Option Making)		
	NODE	Fire Alarm Control Panel 1~100ea, Each Block can be extended		
	Communication System	RS 485 Communication(1.2km) /Ethernet Optical-Single Mode		
	Program	LCD display and notebook in front of Fire Alarm Control Pane		
	CRT Spec	Industrial Computer Commercial Power AC 220V		
	Communication System	RS 485 Loop System or Style 6		
	Expendability	Free Expendability between Sub FACP with Main FACP.		
	Control/Monitor	Control(Pump, Valve, Fan, Sound etc.) Monitor(Digital, Contact, Detector)		
	Language	Korean, English, Chinese, Japanese. Various language can be translated		

Sprinkler Pressure Monitoring System CRT



Operating System	Windows 7 Professional edition				
Hardware		- Maker : HP			
		- CPU : Intel Xeon W3550(3.0GHz)			
	HMI Computer	- Main Memory : 4GB			
		- HDD : 500GB			
		- DVD+CD-RW Combo			
		- 10/100 LAN Card			
		- Keyboard and Mouse			
	23" TFT LED Monitor	- Maximum resolution : 1680 x 1050			
		- brightness : 300 cd/m2			
	Basic S/W	-HANGLE MS Windows7 Professional			
	& HMI Tool	- HANGLE MS Office			
		- HMI Software			
	Network	- Fiber Optic Ethernet Switch			
	Equipment	- FTP Cable, Category 5 with connector			





Green-125 Pressure Monitoring

- Able to mount digital pressure gauge
- Cylinder pressure can be monitored and managed remotely
- Prevent fail of extinguishing cause of leakage of agent

Economic

- Agent Filling Rate (27.2kg ~ 66kg)
- Cylinder (68L & 82.5L)

Reliability

- Cooperation development with Jensen & Hughes Associates
- Professional Fire Prevention Design Certificate

Design Excellence

- Maximum Protection Area (per 1 nozzle) 180 m² (13.42x13.42)
- Ratio of Pipe volume to agent volume 220%
- Discharge Time

5.2sec. ~ 10sec.

Product Name	Green-125		
Certification Ty	가설15-3		
Discharge Type	Total Flooding System		
Minimum Design	A,C	8.7%	
Concentration	В	11.31%	
Maximum Permit Design Concentra	11.5% (When people reside)		
Culindar	82.5 {	35kg~50kg (variable charge)	
Cylinder	68 {	20.6kg~30kg (variable charge)	
Ratio of pipe volume to a	Maximum 220%		
Protection Area of I	180m²		
Installation Height of	0.3m~4.5m		
Minimum Design Pressur	8bar		
Discharge Time	5.2sec. ~ 10sec.		

Automatic Fire Suppression System



Automatic Fire extinguishing System is installed in small-space such as EPS, TPS to suppress fire early.

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High Sensitive

• The fire sensor is early-response glass bulb at 68°C

High Quality

- Use of cylinder valve that agent can be discharged and be interlocked with other cylinder concurrently with operating glass bulb.(patented)
- 2.07m³ protection per agent 1KG. Improvement of minimum 28% in comparison to competitor
- Use of Clean Agent(Personnel safety, No residul) HFC-125

High Safety

- The safety pin is applied to the only our product to prevent accidental agent discharge by busted glass bulb.
- Minimum 30% Reducing weight in comparison to competitor using high-priced aluminum cylinder(WP6.75Mpa)
- Stability Improvement when installing and maintaining product.

Model		DK-951	DK-952	DK-953	DK-954	DK-955	
Туре		Single	Multiple				
Design Volume	A,C	19.73m³	39.46m³	59.19m³	78.92m³	98.65m³	
	В	14.08m³	28.16m ³	42.24m ³	56.32m³	70.4m³	
Protection Area	Min	17.73m² (4.91mX3.61m)	17.73m ² (4.91mX3.61m)	17.73m² (4.91mX3.61m)	17.73m ² X2 (4.91mX3.61mX2)	17.73m ² X2 (4.39mX2.7m)	
	Max		17.73m ² X 2 (4.91mX3.61mX 2)	17.73m ² X3 (4.39mX2.7mX3)	17.73m ² X4 (4.39mX2.7mX4)	17.73m ² X5 (4.39mX 2.7mX5)	
Maximum Installation Height	Multiple	4.5	8.0m				
	Single	4.5m	4.2m	4.5m	4.5m	4.5m	
Filling Pressure		N2, 25bar@20°C					
Agent quantity		9.5kg	9.5kgX2bottle	9.5kgX3bottle	9.5kgX4bottle	9.5kgX5bottle	
Total weight (except support system)		15.9kg	16.1kgX2bottle	16.1kgX3bottle	16.1kgX4bottle	16.1kgX5bottle	
PRD,PS interlock		Possible (use of addition device)					
Produ	ct Size	Whole length : 729mm(including valve) Diameter : 165mm Cylinder material : aluminum					

NOTIFIER

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NOTIFIER



Addressable Fire Alarm Control Panel



- Type : Addressable Fire Alarm Control Panel
- Temperature Range : 0°C ~ 49°C
- Humidity Range : RH 10% ~ 93%
- Point per Loop : 318 (Detector 159 / Repeater 159)
- Maximum Circuit : 10 LOOP 3,180 circuit
- Size : 1165(H)×613(W)×133(D) 2000(H)×700(W)×500(D) Self-standing type
- Feature : Automatic Programming ALK TEST Function Fire Alarm 9 stage, Preliminary Alarm 9 stage Operation of actuator system within 1 sec Operation of output repeater within 3 sec

Product Composition

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Manual Call Point / Fire Alarm Cable



[Manual Call Point]

- 6 terminal, P-type transmitter (DC 24V, KFI Product)
- Manufacturer : VISION ENGINEERING

[Fire Alarm Cable]

 Fire Alarm Cable (UL/FM) (TSP AWG18,AWG16,AWG14)
(T P AWG18,AWG16)
(1Pair / 3C : ISOTEC product)

Underground Piping Indicator



[Underground Piping Indicator]

- Underground Piping Indicator
- Install Specification : install per below 15m
- Mark of place of business, company, pipe route are possible.
- Material : Mixed copper Series
- SIZE : L:100 x H:150 x D:50
- Direction Sign: Four Type





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