

# IT infrastructure Data collecting equipment

KIS – FMS  
Controller



# KIS-FMS Controller

KIS-FMS controller collects data about computer equipment (UPS, thermo-hygrostat, air conditioner, fire extinguishing equipment, etc.) and environment (temperature, humidity, smoke, leakage, voltage, current, power control) in the computer room, as well as important information in the computer room. This is a real-time data collection device with integrated physical security monitoring (intrusion detection, video monitoring, door opening/closing confirmation) functions. It collects data in advance and prevents computer accidents through failure prediction and promptly handles failures, reducing loss of work due to various computer accidents. It supports to efficiently operate and maintain the computer room.

01

## Variety product linkage

- Sensors and electronic products installed in the computer room are linked with serial, contact point, and wireless communication.
- Interworking with heterogeneous products capable of communication and collecting data with a module that supports strong integration

02

## Leak detection integrated type

- Leakage detection by directly connecting the leak cable to KIS-FMS without the need to install a separate leak detection controller

03

## Security monitoring

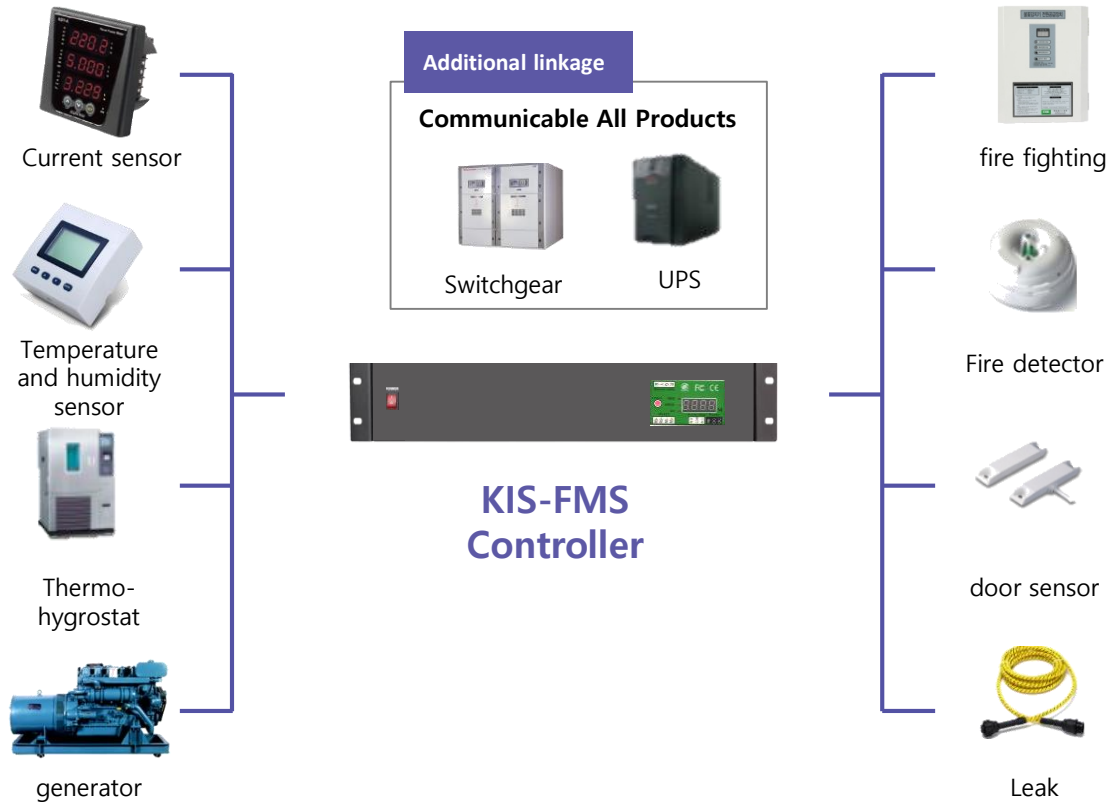
- Remotely monitors the door status and generates an alarm when an unauthorized person enters
- Real-time video monitoring in conjunction with video system

04

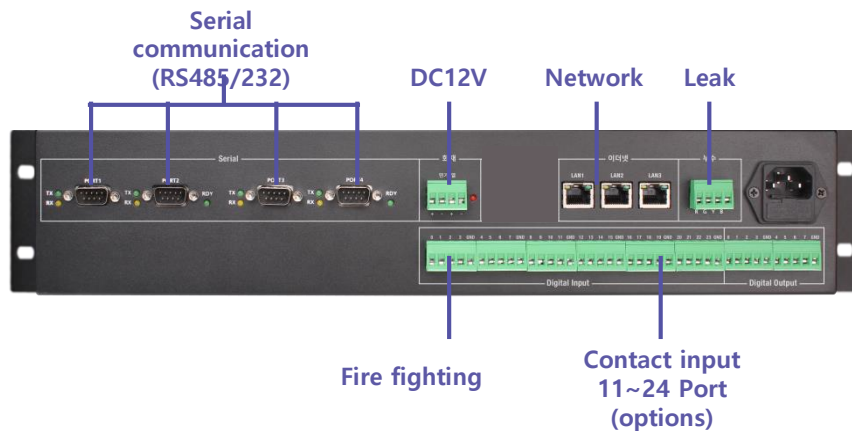
## Easy system expansion

- When adding management facilities and sensors in the future, the system can be expanded by installing the relevant board
- SNMP communication equipment can be linked without additional equipment

## System configuration diagram



## System configuration diagram



# KIS-FMS Controller

## KIS-FMS performance

It is a small device server that can use the DE9 type serial port anytime, anywhere through the Ethernet network. DCU100 connected through Ethernet port supports serial communication speed of up to 921.6Kbps. It supports RS-232 or RS-232/422/485 serial communication standard and ModBus as standard. Our device server provides COM Redirector program to support remote control, monitoring, and data communication of connected devices through the network, and directly use the connected serial devices without any additional program modification.

## Enhanced surge and ESD protection


In order to meet high reliability and stability under diversified use environments including industrial environments, DCU100 is standardized to  $\pm 8\text{KV}$  (contact),  $\pm 15\text{KV}$  (non-contact) and  $\pm 15\text{KV}$  (HBM) standards of IEC61000-4-2 (ESD 4 Level) and it provides an ESD protection function that satisfies them. In addition, in order to prevent damage and malfunction due to overcurrent introduced through the power terminal and the network connector, the surge prevention function that satisfies IEC 61000-4-4(40A) and IEC 61000-4-5(24A) It provides a more stable and reliable data communication environment by providing countermeasures against accidental ESD, EFT, and surge in industrial sites.

## Support for various software utilities

- COM Port Redirector: A virtual serial port program, it provides a serial communication function without complicated configuration and software changes by easily creating a virtual serial port anywhere.
- PortView™: Provides functions to monitor, diagnose, and manage the communication status of the serial port.
- TestView™: Provides a function to test the communication performance and stability of the serial port and Ethernet port
- SGConfig: Provides a function to set the network environment of SG products and the operation environment of each serial port

main  
function

# Controller System specification

Category	KIS21-4PC01	KIS21-8PC01	KIS21-4PL01	KIS21-8PL01
Image				
Serial port	RS-485/232 4PORT	RS-485/232 8PORT	RS-485/232 4PORT	RS-485/232 PORT
Leak	Contact 1	Contact 1	Distance measuring type 1	Distance measuring type 1
Digital Input	15 PORT			
Digital Output	15 PORT			
Fire detection	Heat Detector 1 PORT, Smoke Detector 1PORT			
External power supply	DC 12V 2PORT			
Ethernet	2PORT	4PORT	2PORT	4PORT
security	SHH			
size	19" Rack type			
Power	220V 5A			

# 구 축 사례

Business name	Date of deployment	assigned task
Kookmin Bank Yeouido headquarters	Sep/2009 ~ Oct/2009	TBM system construction
Yeouido KT headquarters	Jun/2010 ~ Jun/2010	TBM system construction
Kookmin Bank Yeomchang Branch	Jun/2010 ~ Jun/2010	TBM system construction
Gwanghwamun Kyobo Building	Jul/2011 ~ Aug/2011	TBM system construction
Homaesil-dong Traffic Control Room	Sep/2012~ Oct/2012	TBM system construction
Incheon V-ENS computer room	Jan/2013 ~ Feb/2013	TBM system construction
Rwanda Government Building 5	Feb/2013 ~ Apr/2013	TBM system construction
Korea Venture Investment	Jun/2013 ~ Oct/2013	TBM system construction
Sohari Kia Motors	Feb/2014 ~ Feb/2014	TBM system construction
Mann Humel	Mar/2014 ~ Mar/2014	TBM system construction
Labor Welfare Corporation Ulsan infrastructure construction	Jul/2014 ~ Jul/2014	TBM system construction
Gwangju Bank Head Office	Nov/2014 ~ Dec/2014	TBM system construction
Ministry of Culture, Sports and Tourism	Nov/2014 ~ Nov/2014	TBM system construction
Hyundai Motor Company ₩ construction 3 places	Feb/2015 ~ Feb/2015	TBM system construction
Samsung Total Backup Computing Center	Mar/2015 ~ Mar/2015	TBM system construction
Hyundai Motor Company construction 3 places	Feb/2015 ~ Feb/2015	TBM system construction
Samsung Total Backup Computing Center	Mar/2015 ~ Mar/2015	TBM system construction
Hyundai Mobis CCR construction 13 locations	Apr/2015 ~ Mar/2016	TBM system construction

# 구 축 사례

Business name	Date of deployment	assigned task
Kyrgyzstan election management system	May/2015 ~ May/2015	TBM system construction
Rwanda Kigali Computer Center	Sep/2015 ~ Sep/2015	TBM system construction
Pohang Accelerator Research Institute	Aug/2015 ~ Aug/2015	TBM system construction
Dubai nuclear power	Sep/2015 ~ Sep/2015	TBM system construction
National Disaster Safety Research Institute	Nov/2015 ~ Dec/2015	TBM system construction
Hyundai Mobis Seosan Driving Test Center	May/2016 ~ May/2016	TBM system construction
Cheongna Hana Financial Center Leakage Monitoring System	Dec/2016 ~ Dec/2016	TBM system construction
Incheon Airport temperature monitoring system	May/2017 ~ Jun/2017	TBM system construction
UPS monitoring of 1100 branches of Kookmin Bank	Aug/2017 ~ Sep/2017	TBM system construction
Daegu data center	Jan/2018 ~ Jan/2018	TBM system construction
Asiana Headquarters	Oct/2018 ~ Nov/2018	TBM system construction
Doosan Heavy Industries & Construction Computer Office	Jan/2019 ~ Jan/2019	TBM system construction
BC Card head office and 3 branches	Aug/2019 ~ Sep/2019	TBM system construction
Chosun University Computer Room	Oct/2019 ~ Oct/2019	TBM system construction
Hyundai Mobis Chungju 2nd factory outside the company	Nov/2019 ~ Nov/2019	TBM system construction
Hyundai Movex Computer Room	Dec/2019 ~ Dec/2019	TBM system construction
Hyundai Mobis Chungju Plant 2	Jan/2020 ~ Jan/2020	TBM system construction

## Data Collection Unit



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