



Optional Sensors

1	Temp & Humid Sensor		Detect data centre indoor temperature and humidity parameters, every 20 M² need to install 1pc. RS422 connection
2	AirCon Infrared Component		Remotely control air condition on-off, with auto reboot when AC recover. RS422 connection
3	Smoke Sensor		Detect indoor data centre monitor status, every 20 M²-30M² need to install 1pc. DI (terminals)
4	Infrared Sensor		Detect data centre intrusion, motion status. DI (terminals)
5	Door contact		Detect door or window on/off status. DI (terminals)
6	Switching Value Transmitter		Detect on-off status of air condition/ new fan. DI (terminals)
7	Sound Light Sensor		Give sound light alarm notification. DO (terminals)
8	Water Leakage Sensor		Detect data centre water leakage status, work with water leakage cable, cable (5/10/15/20/30meter) optional, support length custom. DI (terminals)

Product Description

EMS Pro I is a highly integrated monitoring solution for medium-small type data centre, it integrates four big infrastructure monitoring systems in 19 inch host, including power system (UPS, UPS battery, power distribution, generator, PDU, etc), precision/split air condition system, environment system (Temp, humid, smoke, leakage, gas, dust, etc), security system (door contact, access control, CCTV). EMS Pro I provides complete high level detect of data centre infrastructure devices, when alarm happens, it will rapidly inform administrators to take efficient measures.

Features & Benefits

- Highly integrated, one-stop management
- Cloud technology, WEB access, build-in guide function
- Embed in software, B/S structure, system safety and reliable
- Support to monitor and control smart power devices like UPS, UPS battery, power distribution cabinet, PDU, generator, etc
- Support complete environment detect like temp, humid, smoke, leakage, gas, dust, etc
- Support monitor and control precision or split air conditioning
- Provide security system integration like CCTV, access control
- Support to detect neutral earth voltage, in time to find grounding danger
- Provide map mode display
- Excellent compatibility, plug and play,
- Support mobile APP monitoring
- Provide multiform alarm notifications like email, SMS, telephone, sound light, broadcast, etc



Optional Sensors

1	Temp & Humid Sensor		Detect data centre indoor temperature and humidity parameters, every 20 M² need to install 1pc. RS422 connection
2	AirCon Infrared Component		Remotely control air condition on-off, with auto reboot when AC recover. RS422 connection
3	Smoke Sensor		Detect indoor data centre monitor status, every 20 M²-30M² need to install 1pc. DI (terminals)
4	Infrared Sensor		Detect data centre intrusion, motion status. DI (terminals)
5	Door contact		Detect door or window on/off status. DI (terminals)
6	Switching Value Transmitter		Detect on-off status of air condition/ new fan. DI (terminals)
7	Sound Light Sensor		Give sound light alarm notification. DO (terminals)
8	Water Leakage Sensor		Detect data centre water leakage status, work with water leakage cable, cable (5/10/15/20/30meter) optional, support length custom. DI (terminals)

Product Description

EMS Pro II is based on EMS Pro I and adds more customised function like 3D visual management, PUE management, property management, capacity management, IT equipment management.

Features & Benefits

- Embed in software, B/S structure, system safety and reliable
- Support to monitor and control smart power devices like UPS, UPS battery, power distribution cabinet, PDU, generator, etc
- Support complete environment detect like temperature, humidity, smoke, leakage, gas, dust, etc
- Support monitor and control precision or split air conditioning
- Provide security system integration like CCTV, access control
- Support to detect neutral earth voltage, in time to find grounding danger
- Provide map mode display
- Excellent compatibility, plug and play
- Support mobile APP monitoring
- Provide multiform alarm notifications like email, SMS, telephone, sound light, broadcast, etc
- Support highly-customized like 3D visual, PUE, property management, capacity management, IT equipment management.

[illegible]

Technical Parameters

CPU	32-bit ARMv8 DC-based 800 MHz high-speed carrier processor		
RAM	512M byte SDRAM	Flash ROM	1GB byte Flash
Network	10/100Mbps High-speed Ethernet network card-adaptive		
Device Port	2 RS232 ports(RS485 type)	UPS	
	2 RS232/RS485 composite ports	UPS, general air A/C, power distribution	
	2 RS485 bus	Temp&Humid, general A/C	
	8 DIGIT INPUTS(RJ11 type)	Smoke, leakage, door contact, motion, new fan detect, etc.	
	4 DIGIT OUTPUTS (terminal)	Sound/light	
Browser Supported	Access to SNMP telnet directly through Internet Explorer, Netscape or compatible browser Support RFC1213, RFC1628, RFC808		
Network Protocol	TCP/IP, UDP, SNMP, Telnet, SMTP, HTTP, SMTP, DHCP, DNS, TFTP, ARP, ICMP, HTTPS, PPP, etc. Modbus-RTU, Modbus		
Encrypted Protocol	HTTPS, SSL, SSH, SNMPv3, IPsec		
Running Environment	Temperature: 0°C ~ 70°C Humidity: 10 ~ 90%	Input Power	110V-240V (1.5KW/50HZ)
Other Configuration	Real time system clock synchronization		
System Security	Provide filtering mechanism based on IP, and system-operation, control and management of the user ID and password protection		
System Upgrade	Network upgrade	Languages	Chinese/English, support OEM other languages
Safety Certificate	CE/FCC		



Accessories

SN	Name	Function	Connection
System Alarm			
1	Telephone Alarm Module	Provide telephone alarm notification	RS485
2	Sound Light Alarm Sensor	Provide sound light notification	Light out
Environmental System			
3	Temco& Humid Sensor	Detect data-center indoor temperature and humidity parameters, warning 20 MPa warning module, etc.	RS485-A
4	Smoke Sensor	Detect indoor smoke status, monitor status, warning 20 MPa-5000Pa, need for module type	RS485(B)
5	Infrared Camera	Detect data-center indoor smoke status	RS485(B)
6	Door Contact	Detect door open/close status	RS485(B)
7	Barbiting Air on Transmitter	Detect on/off status of air conditioning machine	RS485(B)
8	Sound Light Sensor	Give sound light alarm notification when alarm happens	RS485(B)
9	Water Leakage Sensor	Detect data-center water leakage status, work with water leakage cable	RS485(B)
10	Water Leakage Sensor	Detect data-center water leakage status with details location, work with water leakage cable	RS485-B
11	Switching Valve Transmitter	Detect on/off status of air conditioning new fan	RS485(B)
Air Condition System			
12	A/C on Infrared Component	Relatively accurate control on A/C with water relief when A/C receiver	RS485-A
Power Distribution System			
13	Three Phase Energy Meter	Digital display, support to capture the power distribution capture of voltage, current, active power, reactive power, etc.	RS485-A
14	Single Phase Energy Meter	Digital display, support to capture the power distribution capture of voltage, current, active power, reactive power, etc.	RS485-A
15	Alarm Branch Circuit Monitor	Support to monitor branch circuit switch signal at any time, a set of 48.5 signal to all other lines, almost works with-vacuumly meter.	RS485-B

