Building Management System



BMS Monitor

Management





System Overview

The Building Management System is a high-efficiency, intelligent monitoring and management solution designed for applications requiring high reliability and stability, such as data centers, power facilities, and HVAC (Heating, Ventilation, and Air Conditioning) environmental manage-

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ment. By supporting multiple protocols, the system enables efficient device access, data aggregation, status monitoring, fault analysis, and provides intuitive visual displays. The system is designed to improve operational efficiency, optimize energy consumption, and enhance security by ensuring real-time monitoring and automated fault detection.

Website&Email

http://global.cet-electric.com/sg sales@cet-global.com



Monitoring Interface



Data Overview

Supports comprehensive data display, including PUE (Power Usage Effectiveness), overall energy consumption, and alarm summary. It also supports 2.5D/3D visualization to enhance situational awareness and provide an intuitive interface for users.

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Module Interface

Provides building diagrams, floor plans, equipment layout diagrams, and device models. Supports floating data displays when hovering over specific locations, allowing users to quickly access key operational insights.



Equipment Monitoring Interface

Monitors the operational data and status of key equipment in real-time, including medium-voltage



cabinets, transformers, UPS/HVDC, chillers, and precision air conditioning. Users can track the health and performance of critical infrastructure to ensure system stability.



Equipment Status Monitoring



Power Monitoring

Real-time collection of power data, including voltage, current, frequency, and power. This data helps operators detect anomalies early and take preventive actions.

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HVAC Monitoring

Monitors operational status and energy consumption of chillers, AHUs (Air Handling Units), and precision air conditioning units, ensuring optimal performance and efficiency.

Environmental Monitoring

Supports real-time monitoring of temperature, humidity, smoke detection, water leakage, and access control. Ensuring environmental parameters remain within safe thresholds is critical for preventing equipment failure and system downtime.





PowerModule1 Fail: 🥏	2# Internal fan failure: 🥏				WaterValve1(%): 67.9
PowerModule2 Fail: 🥏	3# Internal fan failure: 🥐				Internal fan speed(%): 50.0
FireSensorFail: 🥏	4# Internal fan failure: 🥐		EWIL Control		1# Internal fan speed feedback(%): 50.0
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Super Capacitor Output Fail: 🥏	6# Internal fan failure: 🥏	temperature set point	Water valve supply air	Permete ON/OFF	3# Internal fan speed feedback(%): 50.0
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1# Air valve fault: 🥏	2#Rectifier alarm: 🥌			L	5# Internal fan speed feedback(%): 49.9
2# Air valve fault: 🥏	Water Valve1 Fail: 🥏				6# Internal fan speed feedback(%): 49.9
Power Meter Comm Fault: 🥏	Airflow Loss: 🥐				S1UAB line voltage(V): 413.0
Cooling source abnormal: 🥏	Filters blockage: 🥐	FWU Status	Data	FWU	S1UBC line voltage(V): 415.0
Low water flow: 🧶	Inlet water high temp alarm: 🧽	Communication Status: 🥚	1#External Hum(%): 42.0	1#External Temp(°C): 26.1	S1UCA line voltage(V): 412.0
Abnormal Power Loss: 🥏	Internal Communication failure: 🥏	Internal fan status(In Fan): 🥐	2#External Hum(%): 47.0	2#External Temp(°C): 23.4	S2UAB line voltage(V): 409.0
Valve opening overrun: 🥏	Water leak alarm: 🥐	System On_Off status: 🥏	3#External Hum(%): 49.0	3#External Temp(°C): 22.3	S2UBC line voltage(V): 411.0
Supply air high temp: 🥏	AC overvoltage alarm: 🥏	S1 Closing: 🥃	4#External Hum(%): 52.0	4#External Temp(°C): 21.7	S2UCA line voltage(V): 411.0
Supply air low temp: 🥏	AC undervoltage alarm: 🥏	S2 Closing: 🥚	5#External Hum(%): 49.0	5#External Temp(°C): 22.3	Return air AvgTemp(°C): 25.1
Common Alarm: 🥏	Loss of phase: 🥚		6#External Hum(%): 49.0	6#External Temp(°C): 22.7	Supply air AvgTemp(°C): 22.7
	Phase error: 🥏		7#External Hum(%): 44.0	7#External Temp(°C): 24.6	Return air AvgHum(%): 44.3
	AC power frequency Abnormal: 🥚		8#External Hum(%): 39.0	8#External Temp(°C): 26.6	Supply air AvgHum(%): 47.6



Alarm

Management



Real-Time Alarm Notifications

Provides multiple alarm modes, including sound and light alarms, SMS, phone calls, and email notifications to ensure timely fault detection and response.

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Multi-Level Alarm Management

Supports alarm classification into minor, general, and critical levels to ensure swift responses to critical issues. Operators can prioritize and categorize alarms to optimize response strategies.

Historical Alarm Logs

Maintains records of past alarms for analysis and compliance purposes, aiding in trend analysis and

Gene	eral Se	tting Alarm Policy	Alarm Threshold	Alarm Subscription						-			
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		2	Level 3	test105	UPS	test105 平均相电压 under setpoint alarm 196.89		0	ver-limit Event-hostoverlimi	2025-03-06 09:02:49.049	◎ ⊘ 🖹	
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		9	Level 2	553	-	i2Sdemodevice95 通信出错		Co	ommunication Event-device	2025-03-06 09:02:17.422		
		10	Level 3	test105	UPS	test105 平均线电压 under setpoint alarm 39.09		0	ver-limit Event-hostoverlimi	2025-03-06 08:58:56.100		
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future improvements.



Data Analysis

And Reporting





Standardized Reports

Supports energy consumption analysis, equipment status analysis, and alarm trend analysis, generating industrycompliant assessment reports that help operators make informed decisions.

Historical Data Review

Supports data storage and retrospective analysis, which can gain trend insights and optimize the operational strategies of equipment. Analyzing historical data patterns enables more accurate forecasting and helps in formulating more reasonable maintenance

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System Architecture





Standardized Architecture

Adopts a standardized structure where key devices (such as power quality monitoring devices, UPS, and AHUs) connect to the device network via Ethernet, while other devices are integrated via serial gateways. This ensures a reliable and scalable infrastructure for future expansions.

Unified Device Network Management

Provides building diagrams, floor plans, equipment layout diagrams, and device models. Supports floating data displays when hovering over specific locations, allowing users to quickly access key operational insights.

Integrated Data Acquisition

Devices and sensors are connected to a unified data acquisition unit according to their respective areas, ensuring high precision and efficiency in data collection. This approach reduces data silos and enables comprehensive analytics.

Technical Advantages

Efficient Data Acquisition

Supports multi-protocol access (Modbus TCP, IEC 61850, HTTP) to optimize data collection efficiency and interoperability.







Cross-Platform Support

Compatible with Windows and Linux systems, providing flexible deployment options for different IT environments.

Lightweight Architecture

Based on a B/S architecture, enabling webbased access for remote monitoring and management. This eliminates the need for heavy client-side installations and simplifies system maintenance.







Scalability and Integration

The system is designed to be easily integrated with third-party platforms, enabling seamless interoperability with existing infrastructure.





Data Centers

Ensures the stable operation of critical equipment, preventing power failures that could lead to data loss or service interruptions. By maintaining real-time monitoring, the system enhances operational reliability.

Industrial Manufacturing

Provides equipment energy management to reduce operational costs and improve production efficiency. Real-time data insights help in predictive maintenance and failure prevention.

HVAC Management

Integrate the operation of chillers and air conditioning systems to enhance energy efficiency, reduce unnecessary power consumption, and maintain environmental comfort.

Power Distribution Networks

Ensures stable power supply and reduces grid failure risks, improving overall power system reliability and reducing downtime.

Environmental Monitoring

Real-time monitoring of temperature, humidity, water leakage, and smoke detection to enhance safety measures. Proactive alerts allow facilities to mitigate potential hazards before they escalate.



Precise Monitoring Intelligent Analysis



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32 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	12_quanlifi											 	
31 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	11_arithme	0.57	0.52	0.57	0.46	0.49	0.45	0.54	0.61	0.31			
30 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	10_stepaco										 	 	
29 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	9_snapsho												
28 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	8_predictiv												
27 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	7_extractp												
26 arraycabin	1 arraycabin 6006002_L	453 7_1 hour	6_pro95												

		Overview page × Digital map ×												
Facility monitoring	*	Main-menu Graph file												
Monitoring graph	~	Enter keywords to retrieve												
Overview page		Digital map												
Digital map		UPS-GF-ESR01-04	UPS Tag No.	System Status	Load on Battery	Load on Static Bypass	ON-Load powered	d Input Current	Output Current	Input Voltage	Output Voltage	Input Power	Output P	owe
Layout graph		UPS-GF-ESR05~08 UPS-GF-ESR09~12	ESR01-E-UPS-DH6-2-S1-02	Normal	OFF	OFF	ON	425.3 A	401.0 A	408.4 V	415.0 V	298.7 kW	289.0	k٧
Topology graph		UPS-GF-ESR013~16 UPS-FF-MCC01~08	ESR01-E-UPS-DH6-1-S1-04	Normal	OFF	OFF	ON	228.2 A	205.1 A	411.8 V	415.0 V	161.3 kW	155.7	k
Single-Line graph		UPS-ANC&SCR P1-UPS-Status	ESR01-E-UPS-DH6-1-S3-01	Normal	OFF	OFF	ON	366.2 A	347.5 A	409.0 V	415.0 V	258.0 kW	249.4	k
Network graph		UPS-GF-ESR17-20-II UPS-GF-ESR21-24-II	ESR01-E-UPS-DH6-2-S3-03	Normal	OFF	OFF	ON	291.3 A	279.9 A	410.5 V	415.0 V	206.6 kW	199.1	k
vice monitoring		UPS-GF-ESR25~28-II	ESR02-E-UPS-DH6-2-S4-02	Normal	OFF	OFF	ON	282.8 A	270.9 A	409.1 V	415.0 V	198.9 kW	192.5	1
ower quality	~	UPS-ANC\$SCR-II	ESR02-E-UPS-DH6-1-S4-04	Normal	OFF	OFF	ON	446.3 A	424.3 A	412.0 V	415.0 V	319.4 kW	305.7	1
arm center		UPS-FF-MCC09-16-II	ESR02-E-UPS-DH6-2-S2-01	Normal	OFF	OFF	ON	323.3 A	309.2 A	411.9 V	415.0 V	229.6 kW	221.8	,
port center	<i>.</i>	P FWU CRAH	ESR02-E-UPS-DH6-1-S2-03	Normal	OFF	OFF	ON	294.6 A	274.9 A	410.8 V	415.0 V	209.2 kW	201.6	,
erv analysis		GENSET DH-Total Load	ESR03-E-UPS-DH8-1-S1-02	Normal	OFF	OFF	ON	392.7 A	374.4 A	408.7 V	415.0 V	274.9 kW	267.4	
management		P FCU P DH-PDU	ESR03-E-UPS-DH8-2-S1-04	Normal	OFF	OFF	ON	310.5 A	297.8 A	411.3 V	415.0 V	219.0 kW	212.4	
		UPS-RUM-ATS-Generator UPS-RMU-ATS-Generator-II	ESR03-E-UPS-DH8-1-S3-01	Normal	OFF	OFF	ON	401.6 A	387.6 A	408.0 V	415.0 V	283.0 kW	273.8	-
		Layout graph Single-Line graph	ESR03-E-UPS-DH8-2-S3-03	Normal	OFF	OFF	ON	271.5 A	253.1 A	409.0 V	415.0 V	189.9 kW	185.2	-
		Topology graph	ESR04-E-UPS-DH8-2-S2-01	Normal	OFF	OFF	ON	335.9 A	318.8 A	411.0 V	415.0 V	237.4 kW	228.0	
		rvetwork graph	ESR04-E-UPS-DH8-1-S2-03	Normal	OFF	OFF	ON	333.1 A	323.1 A	409.2 V	415.0 V	235.9 kW	228.3	
			ESR04-E-UPS-DH8-2-S4-02	Normal	OFF	055	ON	208.7	1927	411.2 V	4150 V	148 3 144	142 5	
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	Trend / Device Status Query 🟠									函 図 日 〇	بې تې تې	(2) ROO
Di	gital Mc × Floor Mint × Topology	× Single-Li	in ×									
	Total Number of Devices		Number of Online Alarm De	evices	Number of Online Device		Number of Offlin	e Devices		Total Measur	ement Points	
	99		14		96		3			143	810	
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C	Device Status Measurement Point S	Statistic										
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Er	ter keywords to retrieve	Please en	nter keywords Devic	e Type Select	Alarm Status	All	Comm-status	All	\sim			Ex
	station01	No	Dovice Name		Device Tune		Location	Total Paints		Comm.status	State	Det
	channel01	140.	Device Name		Device Type		Location	Total Points		comm-status	State	Det
	channel02	1	test01	Power Qual	lity	pqroom 01			4598	Online	Alarm	0
	channel04	2	test02	Power Qual	lity	pqroom 01			4598	Online	Normal	6
	channel05	3	10.12.137.233	Power Qual	lity	pgroom 01			4626	Online	Normal	6
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	channel06 channel07 channel08 channel09 channel10 channel12 IT机房功率和PUE-计算 新建通道18 新建通道19											



	Over	view page	× Digital	map × Layout gi	aph × Indicators oversit × Monitor analysis × Evaluation report × Real-time alar	m ×					
cility monitoring	Unconfirmed unrecovered Unconfirm										
Aonitoring graph	Des	e 🗸 p	lease enter	Leve							
Overview page		No.	Level	Alarm Device	Description	Alarm Type	Start Time	End Time	Duration	Alarm Area	, Operate
Digital map		1	Level3	FST01	FST01 FST-04 MV FR8 Valve failure Alarm	displacement event-swit	2025-03-06 09:51:22.881	100	1.22	Fuel System	0000
		2	Level3	FST01	FST01 FST-01 MV FRB Valve failure Alarm	displacement event-swit	2025-03-06 09:50:41.012		**	Fuel System	⊚⊘⊙₿
Layout graph		3	Level3	FST01	FST01 FST-03 MV FRA Valve failure Alarm	displacement event-swit	2025-03-06 09:48:59.704	(++)	1995	Fuel System	◎⊘⊙₿
Topology graph		-4	Level3	FST01	FST01 FST-01 MV FRA Valve failure Alarm	displacement event-swit	2025-03-06 09:48:59.704		-	Fuel System	⊚⊘⊝₿
Single-Line graph		5	Level3	DH20-AS	DH20-AS DH20 AS The current highest level is GX Alarm	displacement event-swit	2025-03-06 09:40:44.938		122	GF-AS	◎⊘⊝₿
Network graph		6	Level3	FST01	FST01 FST MV FRDA Valve failure Alarm	displacement event-swit	2025-03-06 09:33:51.505			Fuel System	◎⊘⊝┣
		7	Level3	FST01	FST01 FST-02 MV FRA Valve failure Alarm	displacement event-swit	2025-03-06 09:33:43.311			Fuel System	◎⊘⊝₿
evice monitoring		8	Level3	FST01	FST01 FST MV FRDB Valve failure Alarm	displacement event-swit	2025-03-06 09:31:20.476	**	-	Fuel System	◎⊘⊝₿
ower quality		9	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 56 - FAULT Alarm	displacement event-swit	2025-03-06 08:53:24.121	122	1	Fire Alarm S	◎⊙⊙≧
Monitor analysis		10	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 55 - FAULT Alarm	displacement event-swit	2025-03-06 08:53:17.377			Fire Alarm S	@00B
Evaluation report		11	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 54 - FAULT Alarm	displacement event-swit	2025-03-06 08:53:02.430	(11 5	Set.	Fire Alarm S	
arm center		12	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 53 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:53.549			Fire Alarm S	@00 b
eal-time alarm		13	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 52 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:41.308	-	-	Fire Alarm S	∞⊘⊙₿
vent record		14	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 51 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:29.622	-	-	Fire Alarm S	◎⊘⊝₿
nield-alarm query		15	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 50 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:28.276	1022	-	Fire Alarm S	◎⊘⊝≧
ecord query		16	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 49 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:20.868			Fire Alarm S	© © © 🖻
oort center		17	Level 3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH 2 ROOM 48 - FAULT Alarm	displacement event-swit	2025-03-06 08:52:10.635		1570	Fire Alarm S	◎⊘⊝₿
management ~		18	Level3	FIRE ALARM SYST	FIRE ALARM SYSTEM DC BUILDING GF GAS SUPRESSION FK-5-1-12 PH2 - GENSET PH	displacement event-swit	2025-03-06 08:51:55.699			Fire Alarm S	000B





FOR MORE INFO, PLEASE CONTACT

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