






**OMC**

**SEMonitor Component  
User Manual**

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Symbol Definition	
	<b>WARNING:</b> Indicates information that a potentially hazardous situation which, if not avoided, could result in serious injury or death.
	<b>RISK OF ELECTRICAL SHOCK:</b> Indicates information that Potential shock hazard where HAZARDOUS LIVE voltages greater than 30V RMS, 42.4V peak, or 60V DC may be accessible.
	<b>ESD HAZARD:</b> Indicates information that Danger of an electro-static discharge to which equipment may be sensitive. Observe precautions for handling electrostatic sensitive devices
	<b>ATTENTION:</b> Identifies information that requires special consideration.
	<b>TIP:</b> Identifies advice or hints for the user.

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# InPlant SEMonitor

## Section 1 About This Manual

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This manual mainly introduces the usage of System Environmental Monitor component. For detailed information on environmental monitoring hardware, please refer to the following manuals:

- *CMS011-S01 User Manual*
- *CMS012-S01 User Manual*
- *CMS031-S01 User Manual*
- *CMS032-S01 User Manual*
- *CMS055-S01 User Manual*

## Section 2 Overview

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OMC System Environmental Monitor (hereinafter referred to as "SEMonitor") component is used to collect data from various environmental monitoring modules in field cabinets, monitor parameters such as temperature, humidity, and corrosion levels inside the cabinets, and provide integrated remote monitoring and quick alarm functions, reducing inspection workload while improving safety production efficiency.

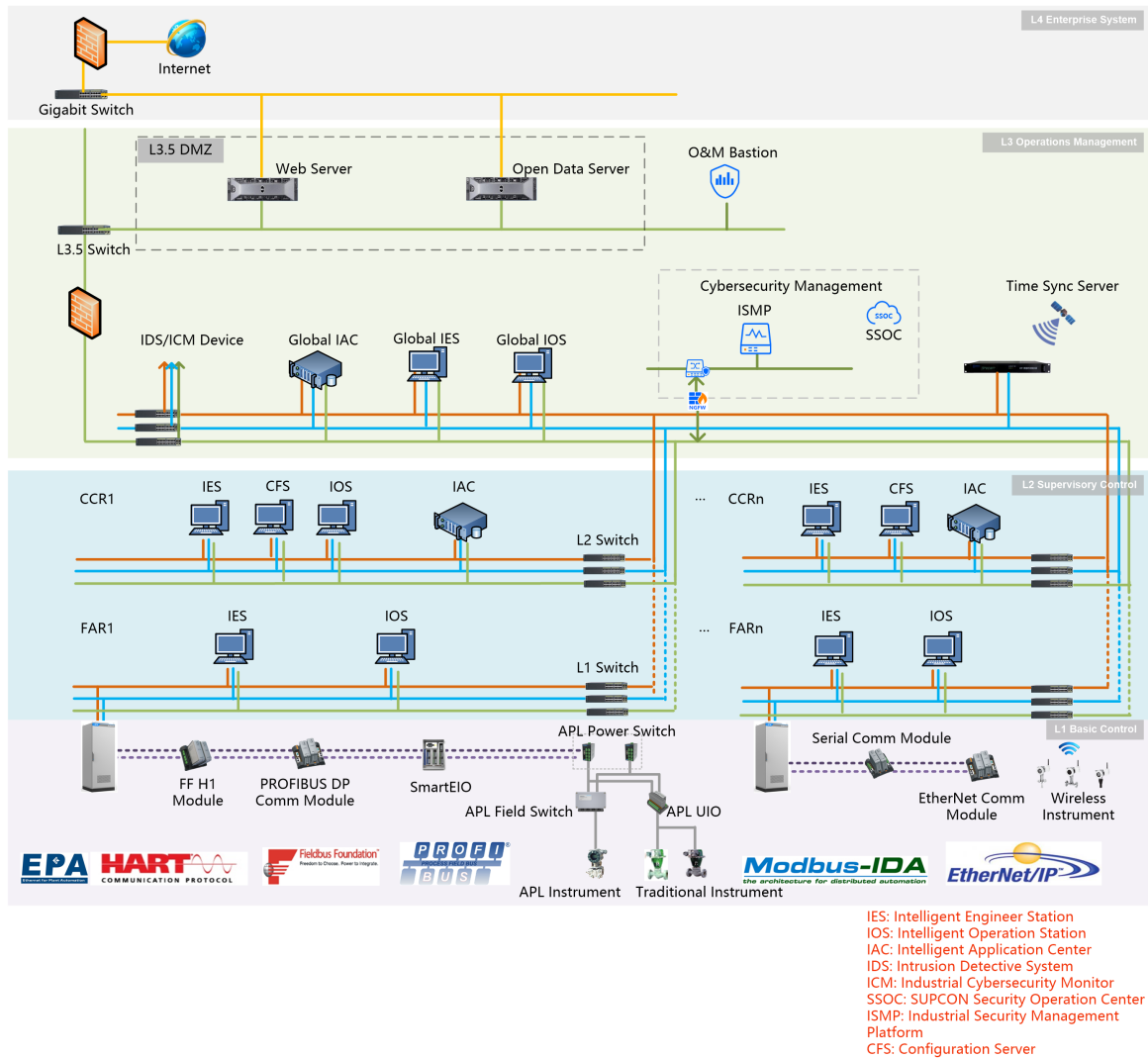
This manual mainly introduces the methods of configuring projects and viewing monitoring data in the SEMonitor.

### 2.1 Functions

- Manages the configuration data of hardware modules and supports downloading configurations to the hardware modules.
- Collects environmental monitoring parameters and displays real-time data, alarms, and trends in the monitoring screen.
- Supports creating hierarchical monitoring views of "Plant - Unit - Room - Cabinet - Module", and allows viewing feedback data of various environmental monitoring modules by cabinet.

### 2.2 Network Structure

SEMonitor works with the control system, and its main equipment and network are shown as the figure below. The service of SEMonitor should be deployed in the IAC (Intelligent Application Center) of corresponding FAR (Field Assemble Rack Room) and it's used to aggregate data collected by environmental monitoring hardwares in the cabinet.



**Figure 2-1 System networking diagram**

## 2.3 Authorization

SEMonitor is authorized using a software dongle, which means a software dongle with appropriate permissions should be plugged into the server. If the SEMonitor is authorized, users can use it to collect and display data; otherwise, users cannot use it.

## Section 3 Installing and Starting SEMonitor

This chapter mainly describes the process flow of SEMonitor component and how to start the component.

### 3.1 Configuration Flow

Figure 3-1 describes the typical operational procedures of SEMonitor.

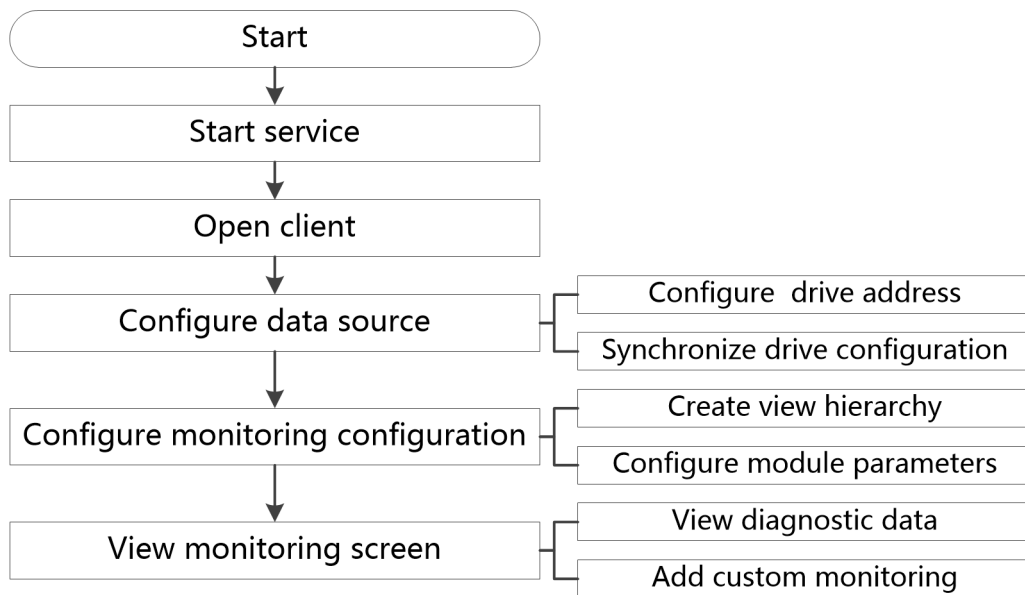


Figure 3-1 SEMonitor operational procedures

### 3.2 Preparations

- Equipment connection and component installation

Complete the physical connection between equipment according to the requirements in Figure 2-1 (see chapter Network Structure), and ensure that there are no communication faults.

For detailed installation, please refer to *OMC Software Installation and Initialization Guide*.

- Authorization preparation

Confirm that the software dongle is properly used, and the authorization type of each function meets the actual field requirements. For details, please refer to Authorization.


### 3.3 Login

1. Select **Start > OMC > Intelligent Application Management** from the start menu. After logging in, select **System Environmental Monitor** node from the left menu.
2. Click the switch button in the bottom right corner of Driver & Application Services to start

the service.

3. Click the button **Open Client** to open the home page of SEMonitor component.

### 3.4 Homepage

After you log in to the system, the page displays the configuration page of monitoring configuration, as shown in the following figure. To log out of the system, click  next to username on the upper-right corner of the page and then return to the login page.

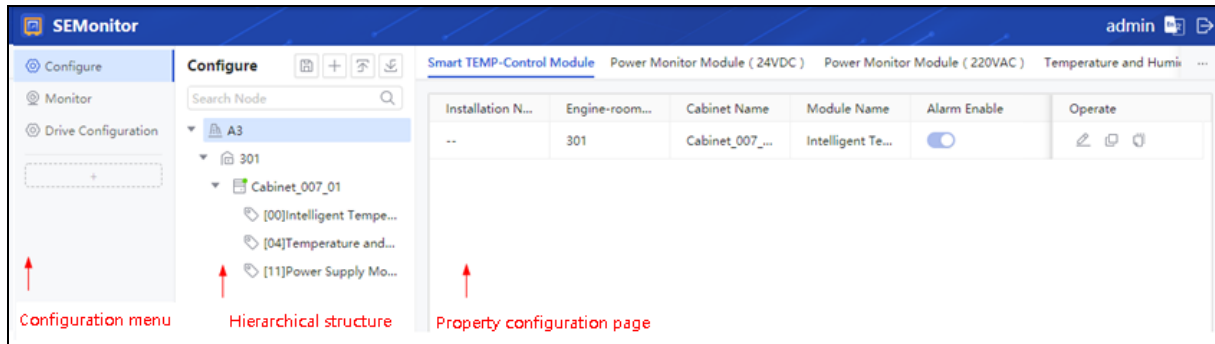


Figure 3-2 Homepage



## Section 4 Configuring Data Source

Click **Drive Configuration** in the configuration menu on the left to enter the data source configuration page.

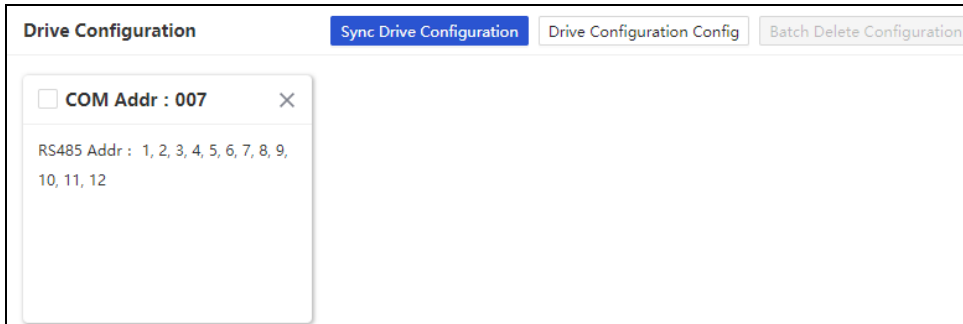


Figure 4-1 Drive configuration page

### 4.1 Configuring Drive Address



**Attention:**

Please configure the drive parameters correctly according to the actual situation, otherwise it will affect communication efficiency.

- Add driver configuration: Click **Driver Configuration Config** on the upper-right corner, select the COM address of the serial device server Nport in the pop-up dialog box, select the RS-485 address of CMS011 in one or multiple cabinets, and then click **OK**. The configured COM address and RS-485 address should be consistent with the actual configuration of the physical equipment.

The added drive configuration will be displayed in the form of block diagrams in the drive configuration page.

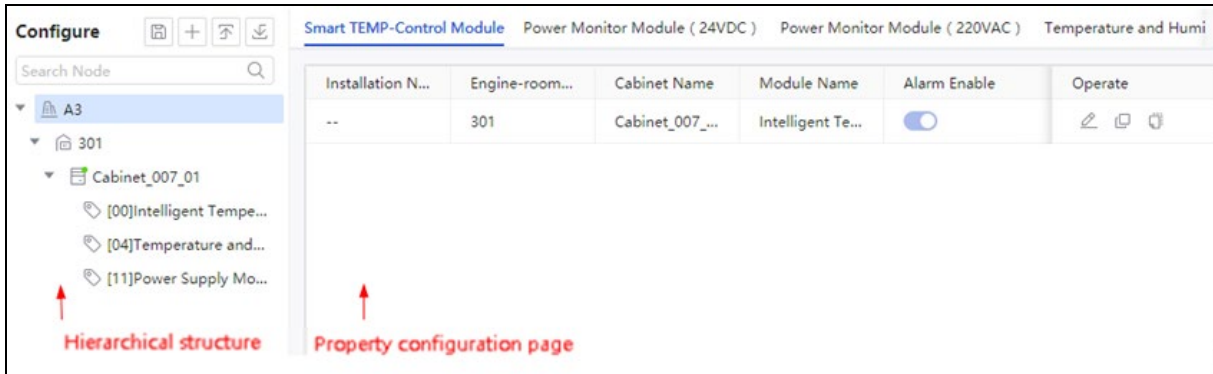
- Delete drive configuration: Before deleting the drive configuration, please delete the modules that use the driver in the monitoring configuration.
  - Delete a single drive configuration: Click **x** on the upper-right corner of the block.
  - Delete multiple drive configurations: Select one or more checkboxes on the upper-left corner of the block, and then click **Batch Delete Configuration** on the upper-right corner of the page.

### 4.2 Synchronizing Drive Configuration

Select one or multiple checkboxes on the upper-left corner of the block, and then click **Sync Drive Configuration** on the upper-right corner of the page. After synchronization is successful, a prompt message will appear on the page.

## Section 5 Configuring Monitoring Configuration

Click **Configure** in the configuration menu on the left to enter the monitoring group configuration page.












**Figure 5-1 Monitoring configuration page**

Description of page buttons is shown in the table below.




**Table 5-1 List of interface button**

Icon	Description	Steps
Buttons above the structure tree		
	Save Changes	Click the button to save changes made to the structure tree.
	Add Factory	Click the button to add a factory node to the structure tree.
	Export Configuration	Click the button to export the current configuration of all environmental monitoring modules as an xlsx file for reuse.
	Import Configuration	Click the button to import an existing configuration file and reuse the configuration parameters of the environmental monitoring modules.
<input type="text" value="Search Node"/>	Search Node	Enter a character in the search bar. If the node name contains the entered character, it will be displayed in red.
When the mouse hovers over a node, the floating button      appears on the right		
	Add Node	Click the button to add a child node under the current node. You can add equipment, room, cabinet, or module nodes according to the nodes selected.
	Edit	Click the button to edit the name or address of the current node.
	Delete	Click the button to delete the current node and all its child nodes.
	Scan	This button is only available for cabinet nodes. Click the button to scan the existing environmental monitoring modules in the cabinet and retrieve their addresses and types.



Icon	Description	Steps
	Download	Click the button to download the configuration parameters of the environmental monitoring modules of the current node to the actual hardware modules. A green dot will appear on the cabinet node icon to indicate successful downloads, and a red dot will indicate failed downloads.
When selecting the factory, equipment, or room node in the structure tree, the module information is displayed on the right of the page in list form, and the button    appears on the operating list		
	Edit	Click the button, and then the module information of this row will become editable. After editing the parameters, click  to save.
	Copy/Paste	Click the button  to copy the module configuration information of this row Click the button  in another module to reuse the previously copied module parameters.

## 5.1 Creating View Hierarchy

On the left side of the monitoring configuration page, configure a multi-hierarchy monitoring structure of "Plant/Unit (optional)/Room/Cabinet/Module" according to the equipment hierarchy of the environmental monitoring module. The steps are as follows:

1. Click  above the structure tree, enter the name of the factory in the pop-up dialog box, and then click **OK** to add a new factory node.
2. Move the mouse over the newly added factory node, click  on the right, select the node type, and then enter the node name. If adding an installation node, repeat this step to add the engine-room node under the installation node.
3. Move the mouse over the newly added engine-room node, click  on the right, and then set the COM address of the serial device server Nport, the RS-485 address of the CMS011 in the cabinet, and the cabinet node name displayed on the monitoring inpage. The node name is set to "Cabinet\_COM Address\_RS-485 Address" by default.

Note: Before adding a node, you need to complete the drive configuration. For details, see Configuring Data Source.

4. Add a module node under the cabinet node through the following two ways:
  - Automatic adding: Click  on the right of the cabinet node, and then SEMonitor will automatically retrieve the addresses and types of existing environmental monitoring modules in the cabinet.
  - Manual adding: Click  on the right of the cabinet node, and then set the address, type, and name of the module. The module name is set to "Module Type + Module Address" by default.


**Tip:**

In general, 00 address refers to the CMS011.


5. Select a node and then configure the configuration parameters of the environmental monitoring module on the right side of the page. For the description of the page operation buttons, please refer to Table 5-1. For details on the detailed parameter descriptions, please refer to "Configuring Module Parameters" or the user manual of the hardware modules.

**Tip:**


SEMonitor will automatically save the modified configuration parameters of the environmental monitoring modules. If you want to use the parameter values before modification, you can click **Withdraw Modification** on the cabinet or module node.

6. After completing the parameter configuration of the environmental monitoring modules, click  on the right of the module node to download the configuration parameters to the actual hardware module.

## 5.2 Configuring Module Parameters


When selecting the factory, equipment or engine room nodes in the structure tree, the module information will be displayed in list form on the right of the page, and then you can click  to edit parameters. When selecting the cabinet node in the structure tree, select the module tab on the right, or select the environmental monitoring module node in the structure tree, and then you can modify the module's configuration parameters on the right of the page.


**Table 5-2 CMS011 configuration parameters list**

Parameters	Parameters illustration	Configuration description
Alarm Enable	Whether to enable module alarm.	Click  to enable or disable the module alarm function.
Fan Type	Select according to fan type in the cabinet.	You can select from <b>Conventional Fan</b> , <b>Tachometer Fan</b> and <b>Speed Regulating Fan</b> .

Parameters	Parameters illustration	Configuration description
Temperature Control Mode	<ul style="list-style-type: none"> <li>Continuous Operation: The fan is always on and running at full speed.</li> <li>Threshold Control: If the actual temperature exceeds the target temperature, then the fan runs at full speed; if the temperature drops below the target temperature by 1 degree, the fan stops.</li> <li>Feedback Control: Only applicable to speed regulating fan. When the actual temperature exceeds the target temperature, the fan speed is automatically adjusted according to the overtemperature degree.</li> </ul>	<p>You can configure according to the fan type and the field requirement:</p> <ul style="list-style-type: none"> <li>Conventional Fan: You can select Continuous Operation or Threshold Control.</li> <li>Tachometer Fan: You can select Continuous Operation or Threshold Control.</li> <li>Speed Regulating Fan: You can select Continuous Operation, Threshold Control or Feedback Control.</li> </ul> <p>For tachometer fans and speed regulating fans, SEMonitor provides fan speed measurement and fan failure alarm.</p>
Reference Temperature Selection	The location of the actual temperature being monitored. When the actual temperature exceeds the target temperature, the module generates a temperature alarm.	You can select <b>Inside</b> or <b>External</b> .
Target Temperature	When selecting <b>Threshold Control</b> or <b>Feedback Control</b> for temperature control mode, you need to configure this parameter.	You can set from -20 °C to +70 °C
Alarm Threshold Temperature	The upper temperature limit for alarms. When the temperature exceeds this limit, the module generates a temperature alarm.	You can set from -20 °C to +70 °C
Poll time	The update interval for the real-time temperature value on the monitoring page.	You can select <b>2s</b> , <b>5s</b> or <b>10s</b> .


Table 5-3 CMS031 configuration parameters

Parameters	Parameters illustration	Configuration description
Alarm enable	Whether to enable module alarm.	Click  to enable or disable the module alarm function.
Upper limit of voltage alarm of channel 1	If the voltage value exceeds the upper limit value, a voltage alarm is generated in the monitoring system.	You can select from (0~60) VDC.
Lower limit of voltage alarm of channel 1	If the voltage value is below the lower limit value, a voltage alarm is generated in the monitoring system.	You can select from (0~60) VDC, and the lower limit value must be less than the upper limit value.
Upper limit of current alarm of channel 1	If the current value exceeds the upper limit value, a current alarm is generated in the monitoring system.	You can select from (0~40) A.
Lower limit of current alarm of channel 1	If the current value is below the lower limit value, a current alarm is generated in the monitoring system.	You can select from (0~40) A, and the lower limit value must be less than the upper limit value.

Parameters	Parameters illustration	Configuration description
Upper limit of power alarm of channel 1	If the power value exceeds the upper limit value, a power alarm is generated in the monitoring system.	You can select from (0~2400) W.
Lower limit of power alarm of channel 1	If the power value is below the lower limit value, a power alarm is generated in the monitoring system.	You can select from (0~2400) W, and the lower limit value must be less than the upper limit value.
Current transformer configuration of channel 1	The upper limit value of the current range for the current transformer. For example, 40A indicates that the current range is (0~40) A, and 20A indicates that the current range is (0~20) A.	The upper limit is 40 A or 20 A
Unbalance monitoring enable	Whether to enable the unbalanced monitoring of voltage and power parameters.	Click  to enable or disable the module alarm function.
Upper limit of voltage unbalance alarm	If the voltage unbalance degree (difference between the two voltages) exceeds the upper limit value, a voltage unbalance alarm is generated in the monitoring system.	You can select from 0 to 100%.
Upper limit of power unbalance alarm	If the power unbalance degree (difference between the two power supplies) exceeds the upper limit value, a power unbalance alarm is generated in the monitoring system.	You can select from 0 to 100%.
Voltage drop threshold	If the voltage value is below the voltage drop threshold, it indicates that a voltage drop has occurred. SEMonitor will count the voltage drop times for two channels respectively and then calculate voltage drop frequency according to the statistical period.	You can select from (0~60) VDC.
Voltage drop statistical period configuration	The time interval used to count the frequency of voltage drops.	You can select <b>Minute</b> , <b>Hour</b> , <b>Day</b> , <b>Week</b> or <b>Month</b> .

Note: The parameters for channel 2 are the same as those for channel 1, and will not be described again.


**Table 5-4 CMS032 configuration parameters list**

Parameters	Parameters illustration	Configuration description
Alarm enable	Whether to enable module alarm.	Click  to enable or disable the module alarm function.
Upper limit of voltage alarm of channel 1	If the voltage value exceeds the upper limit value, a voltage alarm is generated in the monitoring system.	You can select from (100~250) VAC.
Lower limit of voltage alarm of channel 1	If the voltage value is below the lower limit value, a voltage alarm is generated in the monitoring system.	You can select from (100~250) VAC, and the lower limit value must be less than the upper limit value.
Upper limit of current alarm of channel 1	If the current value exceeds the upper limit value, a current alarm is generated in the monitoring system.	You can select from (0~5) A.
Lower limit of current alarm of channel 1	If the current value is below the lower limit value, a current alarm is generated in the monitoring system.	You can select from (0~5) A, and the lower limit value must be less than the upper limit value.

Parameters	Parameters illustration	Configuration description
Upper limit of power alarm of channel 1	If the power value exceeds the upper limit value, a power alarm is generated in the monitoring system.	You can select from (0~1250) W.
Lower limit of power alarm of channel 1	If the power value is below the lower limit value, a power alarm is generated in the monitoring system.	You can select from (0~1250) W, and the lower limit value must be less than the upper limit value.
Upper limit of volage unbalance alarm	If the voltage unbalance degree (difference between the two voltages) exceeds the upper limit value, a voltage unbalance alarm is generated in the monitoring system.	You can select from 0 to 100%.

Note: The parameters for channel 2 are the same as those for channel 1, and will not be described again.

**Table 5-5 CMS055 configuration parameters list**

Parameters	Parameters illustration	Configuration description
Alarm enable	Whether to enable module alarm.	Click  to enable or disable the module alarm function.
Temperature threshold (upper limit/ lower limit)	When the actual value exceeds the upper/lower limit, a temperature alarm is generated in the monitoring system.	You can select from -20 °C to +70 °C
Humidity threshold (upper limit / lower limit)	When the actual value exceeds the upper/lower limit, a humidity alarm is generated in the monitoring system.	You can select from 5% to 99% (RH)
Oressure threshold (upper limit / lower limit)	When the actual value exceeds the upper/lower limit, a pressure alarm is generated in the monitoring system.	You can select from (30 to 110) kPa

## Section 6 Viewing Monitoring Data

SEMonitor provides a plant-level monitoring function, allowing users to monitor the operation status of field equipment and providing a visual monitoring page that displays real-time environmental data and module alarm information for easy management and maintenance.

Click **Monitor** node in the configuration menu on the left side or select customized monitoring page to enter the monitoring interface. As shown in Figure 6-1, SEMonitor displays each cabinet node in the form of block, and displays each environmental monitoring module in the cabinet according to its address. When a green box is displayed on the upper-right corner of the cabinet block or on the right side of the module, it indicates that communication is normal.

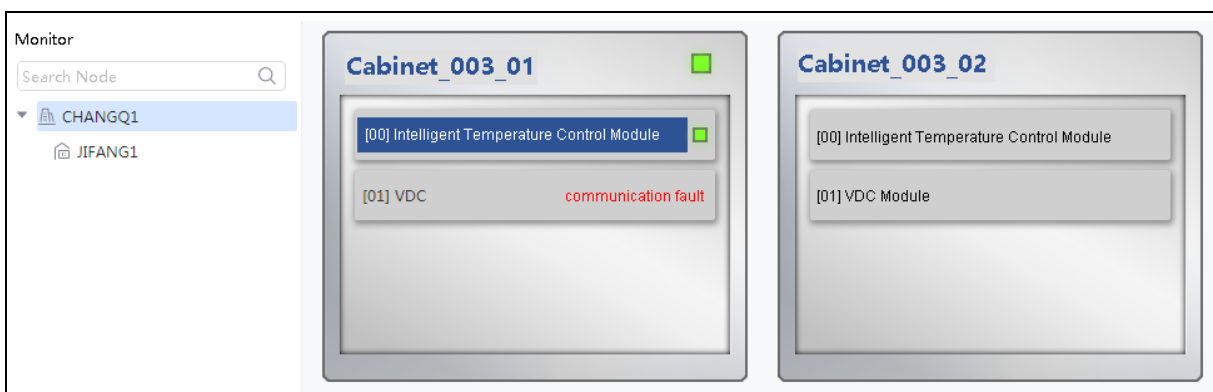



Figure 6-1 Monitor page

### 6.1 Viewing Module Data

In Figure 6-1, click the cabinet name or module name, and then you can view the data measured by the module in the pop-up list. If there is an abnormal value (such as Stop, Fault or Alarm), the data will be displayed in red to draw attention. The alarms that occur will be logged in the module's log information.

If there is an icon  to the right of the data name, you can click the icon to view the data trend chart in the pop-up dialog box. In the trend chart, you can select to display data for today, this week, this month, or this year at the top. Through dragging the lines on both sides of the zoom slider below or scrolling the mouse wheel in the curve area, you can adjust the time range of the trend.

#### 6.1.1 CMS011

The following table lists the meanings of each monitored data for the intelligent temperature control module CMS011.



**Table 6-1 CMS011 monitoring data**

Monitoring data	Definitions	Troubleshooting
External temperature/ Inside temperature	Displays the current temperature value based on the reference temperature position selected during configuration.	—
Fan status	Displays the fan status (normal or fault).	—
Fan start and stop status	Displays the fan start and stop status (started or stopped).	—
Fan rotate speed	Displays the current fan rotate speed (unit: rpm).	—
Temperature alarm	When the monitored temperature exceeds the set temperature threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	<ol style="list-style-type: none"> <li>1. Check the fan working status.</li> <li>2. Check the abnormal module working status and heat dissipation situation inside the cabinet.</li> </ol>
Module fault information	Displays <b>Fault</b> when a module is faulty, otherwise displays <b>Normal</b> .	Please contact the SUPCON engineer to determine the fault cause through the module log and then troubleshoot the fault. For example, if the fan is faulty, check whether the fan working status is normal.
Communication fault information of connected modules	Displays whether the communication of the 16 modules on the RS-485 bus is normal.	Check the network cable connection status of the connected module and check whether there any duplicates in the address DIP switch.
Thermistor fault status	Displays whether the thermistor is faulty.	If an external reference temperature is selected, check the external sensor wiring. If the wiring is normal, replace the external sensor. If an internal reference temperature is selected, we recommend you replace the module.

### 6.1.2 CMS031

The following table lists the meanings of each monitored data for CMS031.

**Table 6-2 CMS031 monitoring data**

Data monitored	Definitions	Troubleshooting
Voltage of channel 1	Displays the monitored channel voltage value (unit: VDC).	—
Current of channel 1	Displays the monitored channel current value (unit: A).	—
Power of channel 1	Displays the monitored channel power value (unit: W)	—
Frequency of voltahe drop of channel 1	Displays the frequency of voltage drops occurring within a specified statistical period.	—

Data monitored	Definitions	Troubleshooting
Voltage alarm of channel 1	When the monitored voltage value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check the 24VDC bus voltage. If the bus voltage is normal, we recommend you replace the module.
Current alarm of channel 1	When the monitored current value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check whether the 24VDC bus device is overloaded. If the 24VDC bus load is normal, we recommend you replace the current sensor.
Power alarm of channel 1	When the monitored power value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Follow the above steps to check whether the voltage and current are normal. If both the voltage and current are normal, we recommend you replace the module.
Voltage unbalance alarm	When the monitored voltage unbalance exceeds the set value, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check whether the two 24VDC voltages are normal and similar. If both 24VDC voltages are normal and similar, we recommend you replace the module.
Power unbalance alarm	When the monitored power unbalance exceeds the set value, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check whether the two 24VDC voltages are normal and similar, and whether the 24VDC bus device is overloaded. If both are normal, we recommend you replace the module.

Note: The parameters for channel 2 are the same as those for channel 1, and will not be described again.

### 6.1.3 CMS032

The following table lists the meanings of each monitored data for CMS032.

**Table 6-3 CMS032 monitoring data**

Data monitored	Definitions	Troubleshooting
Voltage of channel 1	Displays the monitored channel voltage value (unit: VDC).	—
Current of channel 1	Displays the monitored channel current value (unit: A).	—
Power of channel 1	Displays the monitored channel power value (unit: W)	—
Voltage alarm of channel 1	When the monitored voltage value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check the 220VA bus voltage. If the bus voltage is normal, we recommend you replace the module.
Current alarm of channel 1	When the monitored current value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check whether the 220VA bus device is overloaded. If the 220VA bus load is normal, we recommend you replace the current sensor.

Data monitored	Definitions	Troubleshooting
Power alarm of channel 1	When the monitored power value exceeds the set voltage alarm threshold, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Follow the above steps to check whether the voltage and current are normal. If both the voltage and current are normal, we recommend you replace the module.
Voltage unbalance alarm	When the monitored voltage unbalance exceeds the set value, displays <b>Alarm</b> , otherwise displays <b>Normal</b> .	Check whether the two 220VA voltages are normal and similar. If both 220VA voltages are normal and similar, we recommend you replace the module.

Note: The parameters for channel 2 are the same as those for channel 1, and will not be described again.




### 6.1.4 CMS055

The following table lists the meanings of each monitored data for CMS055.

**Table 6-4 CMS055 monitoring data**

Data monitored	Definitions	Troubleshooting
Temperature	Displays the monitored environmental temperature (unit: °C).	—
Humidity	Displays the monitored environmental humidity (unit: %RH).	—
Pressure	Displays the monitored environmental air pressure (unit: kPa).	—
Temperature alarm	When the monitored temperature exceeds the set temperature threshold, displays Alarm, otherwise displays Normal.	<ol style="list-style-type: none"> <li>1. If the module is located between cabinets, check the air conditioning working status.</li> <li>2. If the module is located inside a cabinet, check whether it is affected by a heat source.</li> </ol>
Humidity alarm	When the monitored humidity exceeds the set humidity threshold, displays Alarm, otherwise displays Normal.	<ol style="list-style-type: none"> <li>1. If there is a high humidity alarm, check the dehumidifier's working condition or turn on the dehumidifier.</li> <li>2. If there is a low humidity alarm, check the humidifier's working condition or turn on the humidifier.</li> </ol>
Pressure alarm	When the monitored pressure exceeds the set pressure threshold, displays Alarm, otherwise displays Normal.	—

## 6.2 Editing the Monitor Page


On the Monitor page, select the child node of the factory, and a  will appear above the structure tree. Click , and then the right-side page will become editable. At this point, you can drag the cabinet diagram to adjust the arrangement order. After the modification is complete, click  on the upper-left corner of the cabinet diagram.

## 6.3 Adding Custom Control Page




SEMonitor supports customizing monitoring pages. After selecting the factory, equipment, engine


room, cabinet, module types and other nodes, you can quickly find the required modules in the custom control page, view monitoring data, and avoid unimportant data causing interference.

### 6.3.1 Adding Custom Control Page

1. In the configuration menu, click  at the bottom, and then the dialog box **Add Custom Control Page** pops up.
2. In the pop-up dialog box, enter the name of the control page and select the needed module type and node range.
3. Click **OK**.

### 6.3.2 Managing Custom Control Page

When moving the mouse over the name of a custom control page, three buttons will appear on the right side. You can click  to edit the property of the custom control page, click  to delete the custom control page, and click  to view the custom control page in the new interface.

If viewing the monitoring data on multiple screens, you can drag the new page to a different display screen after clicking , realizing monitoring multiple monitoring pages synchronously.

## Section 7 Revision

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*Table 7-1 Revision history*

Document Version	Applicable Product Version	Remarks
V1.0 (20230915)	OMC SEMonitor V1.00.00.00-M	First release.