

ICP DAS
IoTstar 2025
"Dashboard Service"
Function Manual
[Version 1.0.0 - 2025/02/03]



泓格科技
ICP DAS CO., LTD.

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1 Introduction

IoTstar 2025 is the latest version of ICP DAS's IoT cloud management software. It integrates the original IoTstar software and service packages (Dashboard Service, Report Service, Bot Service, etc.) into a single product, streamlining IoTstar's purchasing and installation process while making the system more intuitive and convenient to use. In addition to retaining all features and service packages from the previous version, IoTstar 2025 introduces several new user-centric functions and significantly enhances the overall user experience.

IoTstar 2025 can be installed on private PCs or VM (Virtual Machine) systems hosted on cloud platforms such as Microsoft Azure, IBM Bluemix, Amazon AWS and Google Cloud. This enables users to quickly establish their own IoT cloud monitoring systems. With IoTstar 2025, users can create IoT cloud systems that deliver the following services:

1. **Controller Remote Access Service:** Status Monitoring, System Setting, and Firmware Update for WISE/PMC/PMD controllers.
2. **Sensor Data Collection Service:** Collect the data of the sensor connected to the controller and import the data into the Database on cloud.
3. **Sensor Data Visualization Service:** Review the data of the sensor connected to the controller through Dashboard interface.
4. **Sensor Data Report Service:** Provide statistical report for the data of the sensor connected to the controller.
5. **Bot Service with Mobile Phone:** Review the data of the sensor connected to the controller by mobile phone Bot service.



Figure 1-1: System Architecture of IoTstar 2025

IoTstar 2025 Dashboard Service function provides users the Dashboard editor and a variety of Widget components. Based on the function which IoTstar 2025 Dashboard Service provide, the users can setup the Dashboard pages to review the Real-Time sensor data (and Power data) from the I/O modules (or Sensor) and Power Meter connected to WISE / PMC / PMD controllers, and instantly change the values of the DO/AO output channels of the I/O modules (or power meters) connected to WISE/PMC/PMD controllers.

Through the IoTstar 2025 Dashboard Service function, users can quickly set up the Dashboard pages required for the review of real-time I/O channel data and interact with the I/O modules, sensors, power meters connected to WISE/PMC/PMD controllers and operators.

The following are the Widget components provided by IoTstar 2025 Dashboard Service function.



Figure 1-2: The Widget components IoTstar 2025 Dashboard Service provide

The following is the examples of Dashboard built by IoTstar 2025 Dashboard Service function:

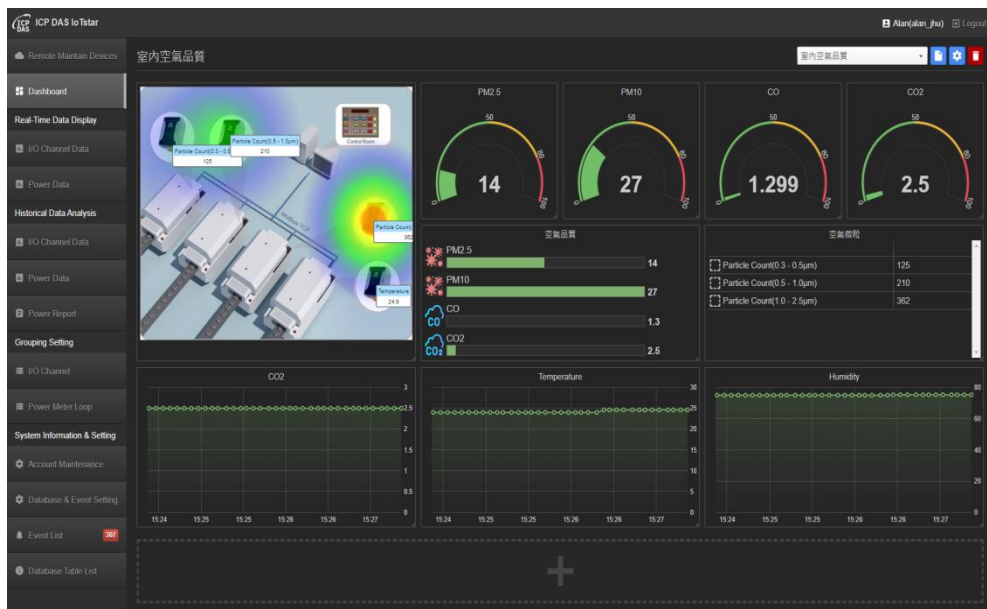


Figure 1-3: Example by using IoTstar 2025 Dashboard Service(1)

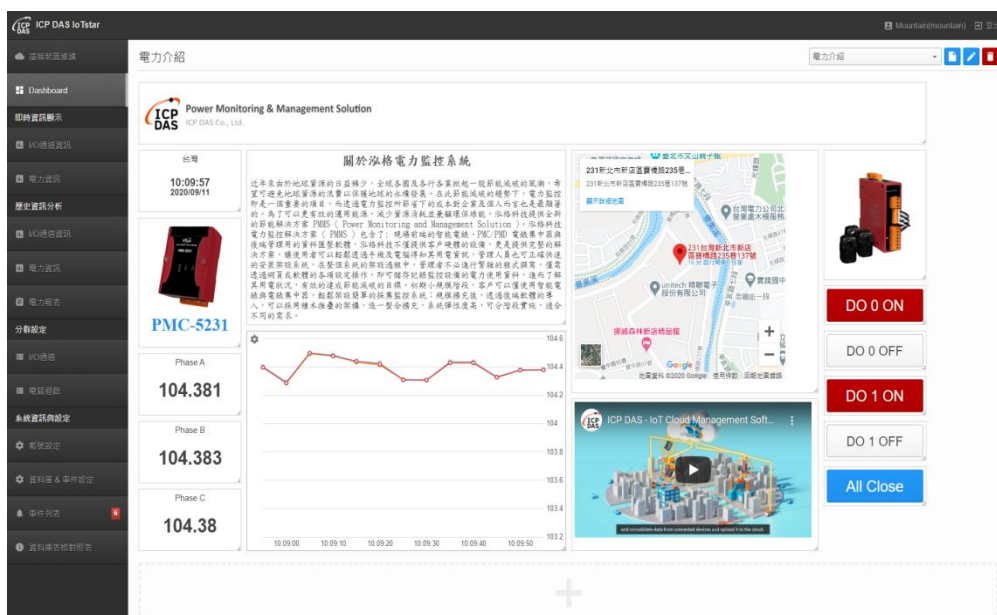


Figure 1-4: Example by using IoTstar 2025 Dashboard Service(2)



Figure 1-5: Example by using IoTstar 2025 Dashboard Service(3)

The following chapters will explain the operation of the Dashboard Service function of IoTstar 2025 (hereinafter referred to as IoTstar). For instructions on software installation, system settings and other functions of IoTstar 2025, please refer to the IoTstar 2025 IoT Cloud Management Software User Manual.

2 Set up Dashboard

When the installation of IoTstar is completed and the IoTstar is enabled, user can use the Dashboard Editor and Widgets provided by IoTstar Dashboard Service function to set up the Dashboard pages to review the Real-Time I/O channel data (or Power data) from the I/O modules, sensor, or power meter connected to WISE / PMC / PM controllers, and instantly change the values of the DO/AO output channels of the I/O modules, sensor, or power meter.

Following is the description of the process to set up the Dashboard pages.

2.1 Launch Dashboard Service

Log in to IoTstar website, user can click on the "Dashboard Service" button on the "Data Display & Analysis" section of IoTstar Webpage to enter the Dashboard Service page.

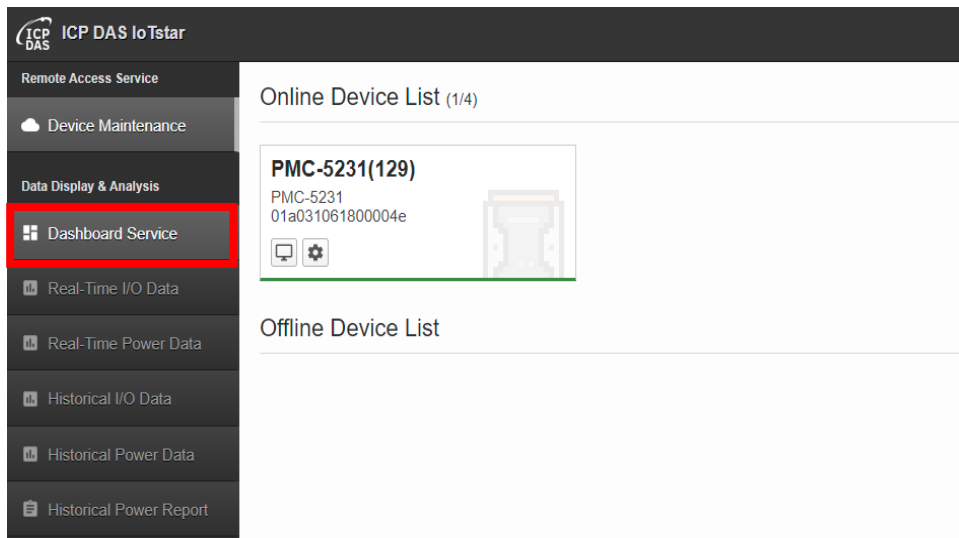


Figure 2-1: Launch Dashboard Service

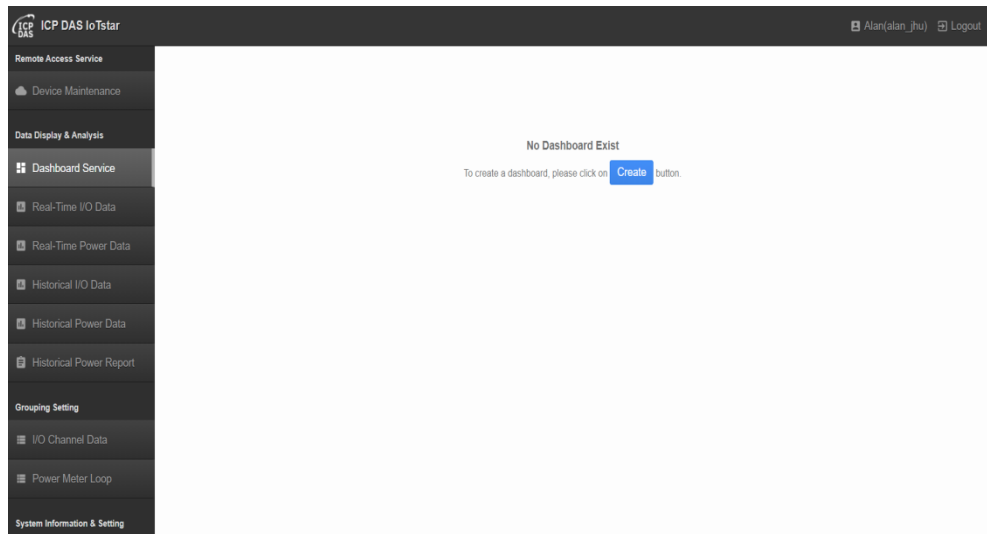
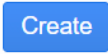



Figure 2-2: Enter Dashboard Service Page

2.2 Create Dashboard

If user enters IoTstar Dashboard Service page for the first time, he can click the "Create"  button, and the system will create a new Dashboard for the user account. If user has previously built a Dashboard, he can click the "Create Dashboard"  button at the upper right of the IoTstar Dashboard Service page to create a new Dashboard.

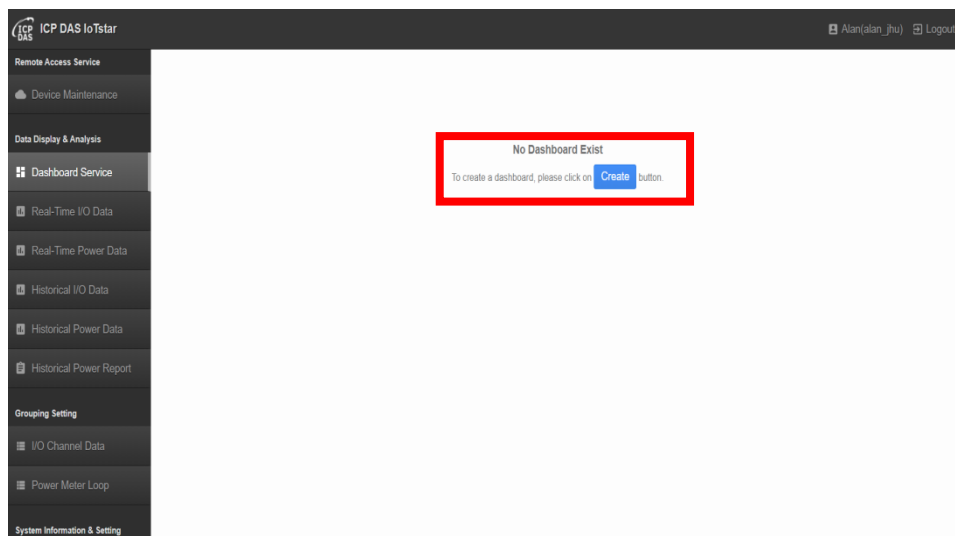


Figure 2-3: Create a Dashboard

Now, the "Create Dashboard" window will appear. The parameter setting interface of this window is described as follows:

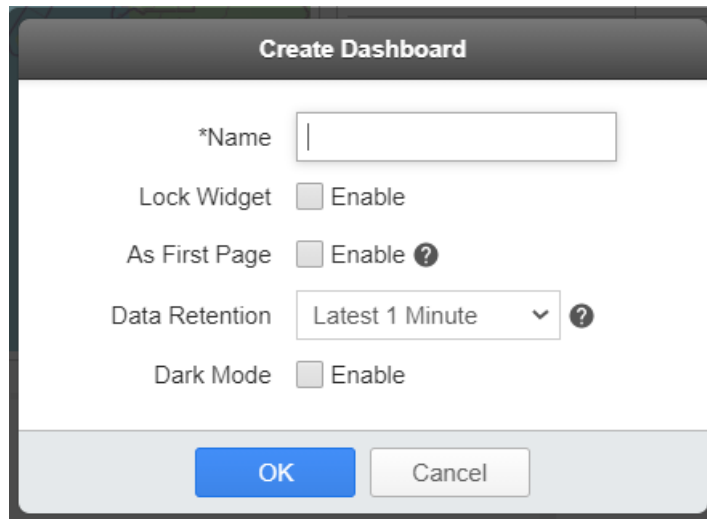


Figure 2-4: "Create Dashboard" Window

- Name: Input a nickname for the Dashboard.
- Lock Widget: Check "Enable" to lock the size and location of all widgets in the Dashboard.
- As First Page: Check "Enable" to assign the Dashboard as the home page of the IoTstar Dashboard Service for the user account.
- Data Retention: Assign the time period for the system to keep the most recent I/O channel data (power data) during this assigned time period, and the data can be displayed by the Widgets of the Dashboard. There are 5 options: Latest 30 seconds, Latest 1 minute, Latest 3 minutes, Latest 5 minutes and Latest 10 minutes.
- Dark Mode: Check "Enable" to assign the Dashboard to use "Dark Mode" for display.

2.3 Change Dashboard Setting

After create Dashboard, the Dashboard setting interface will be shown on the upper right of IoTstar Dashboard Service page, The setting interface is described as follows:

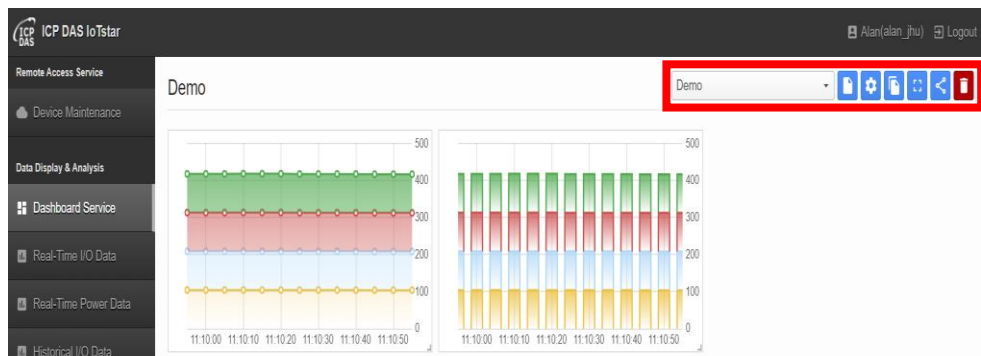

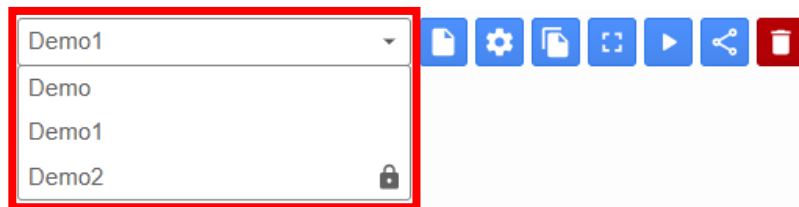











Figure 2-5: Dashboard List and related operations

- **Dashboard List:** It list the Dashboards created by the user account through IoTstar Dashboard Service. User can select the Dashboard page from the list, and then the service will switch to the selected Dashboard page for display. If the Dashboard page which enable the "As First Page" setting, it will be set as the first page of the list. In addition, if there is an icon  behind the name of the dashboard page, it means the dashboard is in the "Lock Widget" mode.



- **"Create Dashboard"**  Button: User can click this button to create a new Dashboard. The "Create Dashboard" window will be shown .
- **"Edit Dashboard"**  Button: User can click this button to edit the parameter of the Dashboard selected in the Dashboard List. The "Edit Dashboard" window will be shown.
- **"Copy Dashboard"**  Button: When user clicks the button, the system will create a new dashboard and copy all the settings from the dashboard selected in the "Dashboard List" to the new dashboard, and the default name of the new dashboard is "The name of selected Dashboard(Copy)".

- "Full Screen mode"  Button: User can click this button to display the Dashboard selected in the Dashboard List in the Full Screen mode. When the system is in Full Screen mode, user can click the  button to return to Normal mode.
- "Carousel"  Button: When the user clicks the button, the system will display the dashboards in the "Dashboard List" in sequence according to the time interval set by the user. When the system is in carousel mode, users can click the  button or anywhere on the screen to exit the carousel.
- "Share Dashboard"  Button: After click this button, IoTstar will provide the URL link to share all dashboards in the Dashboard List. User now only needs to open the web browser and key in the URL link to directly enter the dashboard and interact with it, instead of opening the dashboard by logging in IoTstar with the account information. For more detail of the setting of dashboard sharing function, please refer to [2.6 Dashboard Sharing Setting](#).
- "Remove Dashboard"  Button: User can click this button to delete the Dashboard selected in the Dashboard List.

2.4 Edit Dashboard Content

IoTstar Dashboard Service provide the editing interface and variety of Widget for user to edit the content of Dashboard. Following is the steps for the Dashboard editing operation:

- Click the "+"  icon on the page of IoTstar Dashboard Service to add widget.

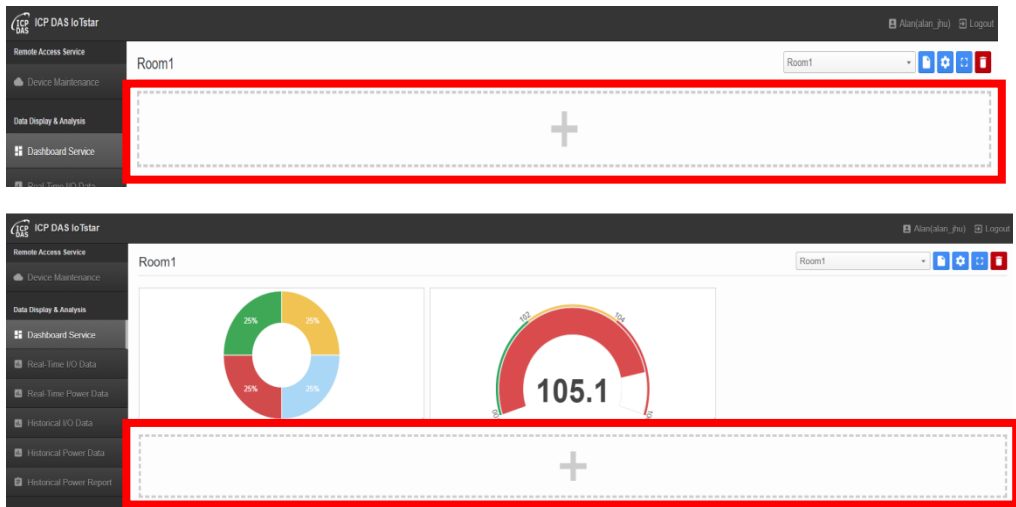


Figure 2-6: Add Widget for Dashboard

- ii. After clicking, the "Add Widget" window will open. Please click the "Type" button at the upper left of the "Add Widget" window to enter the "Widget Type" selection page where user can select the desired widget he want to add in the Dashboard.

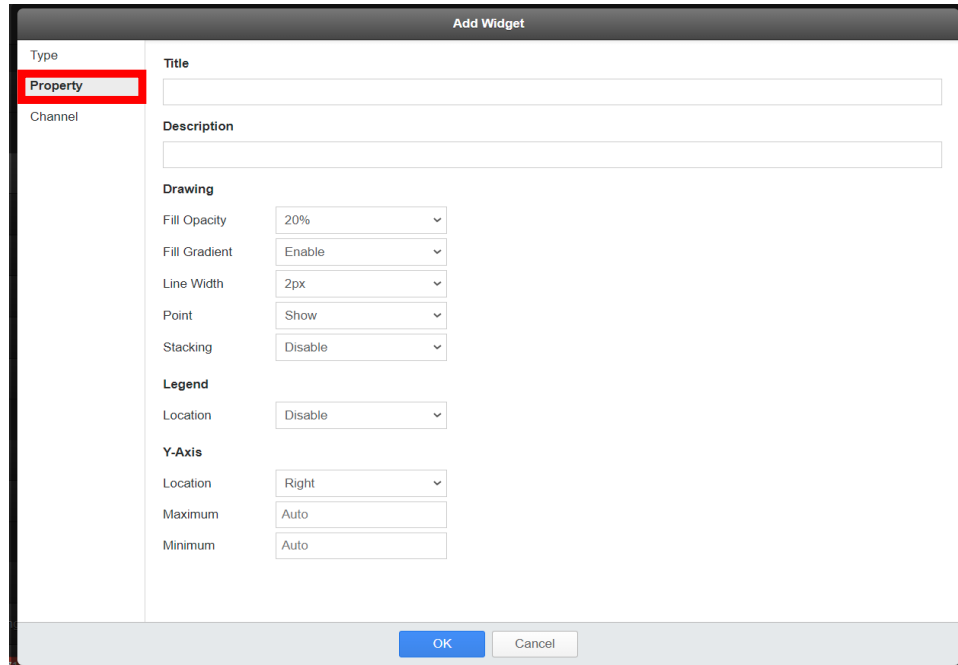


Figure 2-7: Type Selection Page of Widget

- iii. After finish the Widget selection, please continue to click the "Property" button at the upper left of the "Add Widget" window to enter the "Property" setting page. User needs to set up the parameters of the


selected Widget.

Please Note: For the description of the parameter of Widgets which IoTstar Dashboard Service provide, please refer to "[3 Widget Provided by IoTstar Dashboard Service](#)" chapter.



The screenshot shows the 'Add Widget' dialog box. On the left, there is a sidebar with 'Type' and 'Channel' sections. Under 'Type', the 'Property' tab is selected and highlighted with a red box. The main area of the dialog is divided into several sections: 'Title' with a text input field, 'Description' with a text input field, 'Drawing' with settings for Fill Opacity (20%), Fill Gradient (Enable), Line Width (2px), Point (Show), and Stacking (Disable); 'Legend' with Location (Disable); and 'Y-Axis' with Location (Right), Maximum (Auto), and Minimum (Auto). At the bottom, there are 'OK' and 'Cancel' buttons.

Figure 2-8: Parameter Setting Page of Widget

- iv. After finish the parameter setting, please continue to click the "Channel" button at the upper left of the "Add Widget" window to enter the "Channel" setting page. This page provides the interface for user to set up the I/O channel (or power data) that the Widget needs to bind, so that the corresponding Real-time I/O channel data (or power data) can be displayed by the Widget. Please click the "Add"  button at the bottom of the "Channel" setting page.

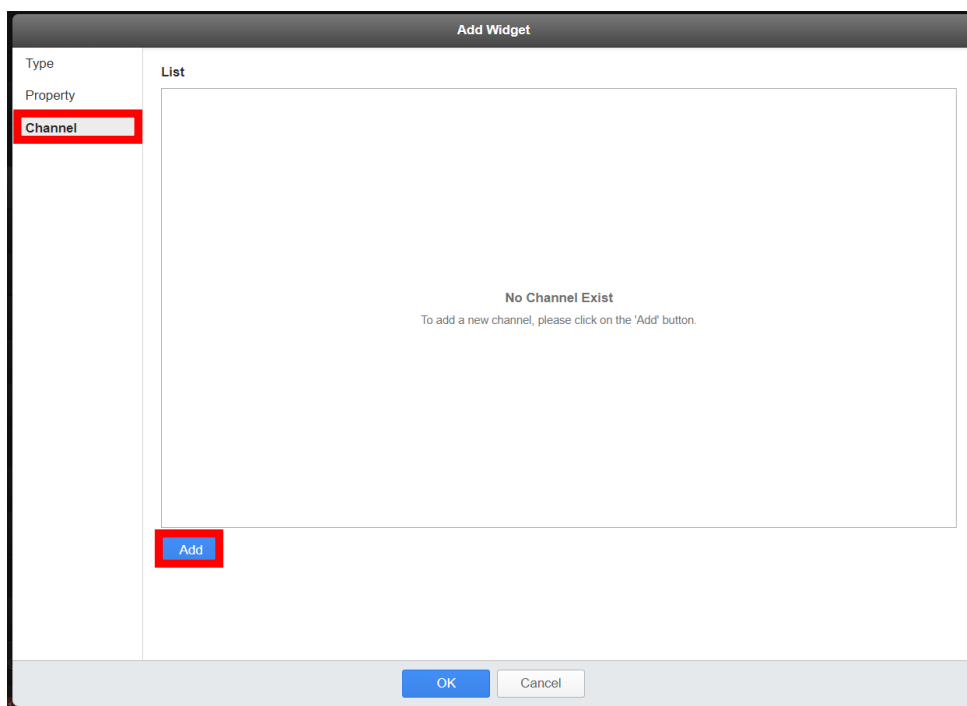


Figure 2-9: Channel Setting Page of Widget

- v. After clicking, the "Add Channel" window will be open. User can select the module (I/O module, sensor or power meter) to be bound with the Widget through the module list at the upper left of the page. After complete selection, the page will display the I/O channel list (or power meter) of the selected module, and then user can select the I/O channel (or power data) to be displayed through the Widget.

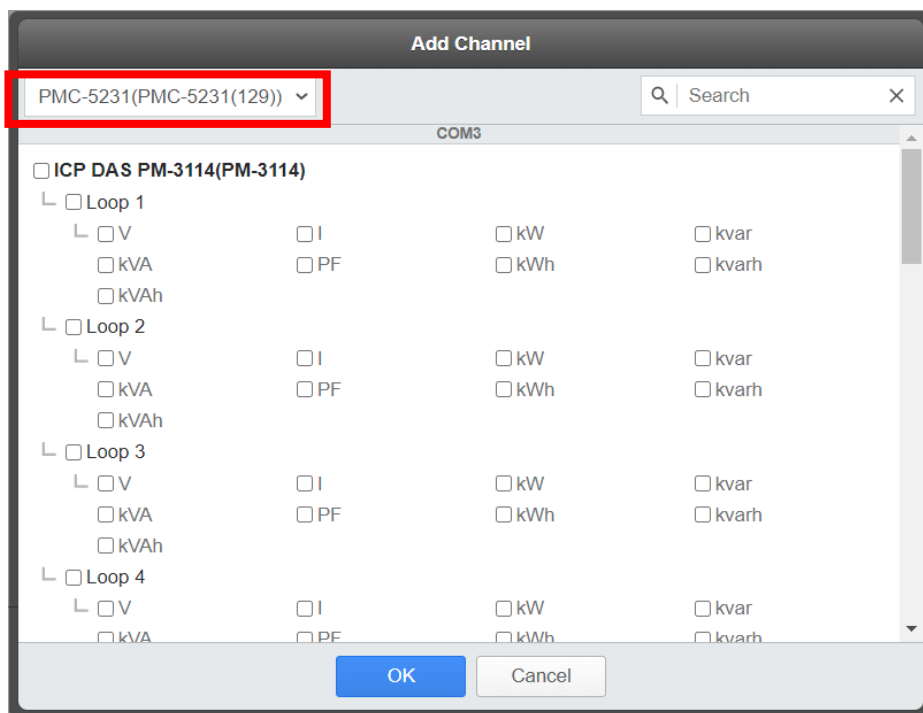
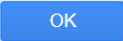


Figure 2-10: Channel Selection for Widget(1)

After selection, please click the "OK"  button.

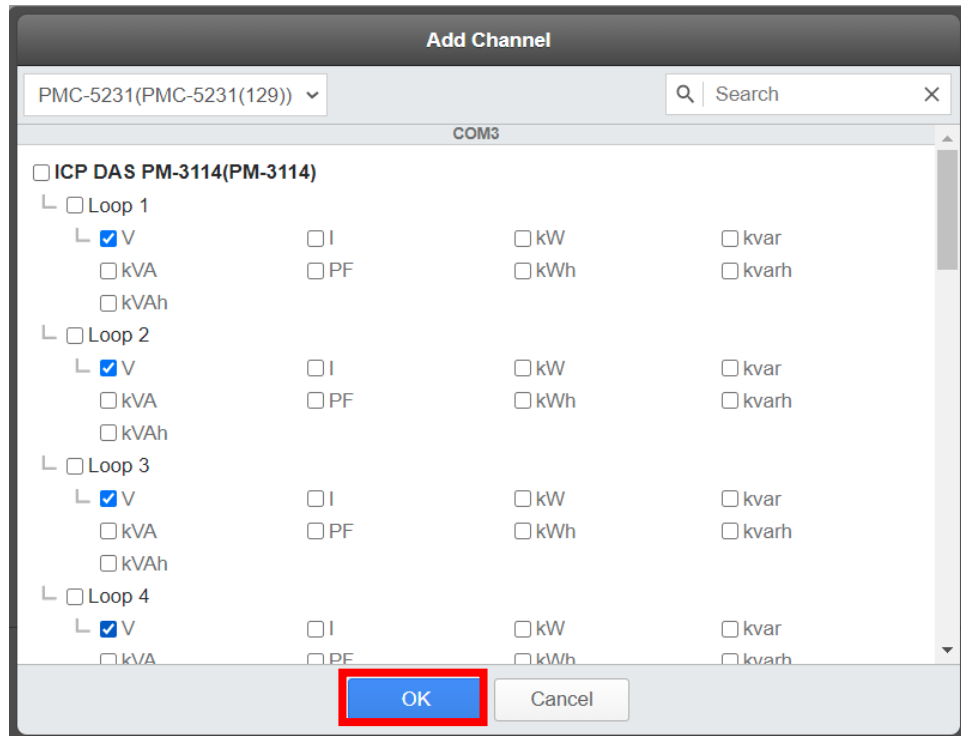



Figure 2-11: Channel Selection for Widget(2)

After selection, the "Channel" page will show the list of the I/O channels (or power data) currently bound to the Widget. If need, user can directly drag and drop the I/O channel (power data) in the list to adjust the arrangement of the I/O channels (power data) in the list. After complete the setting, please click the “Setting”  button on the right of the I/O channels (power data).

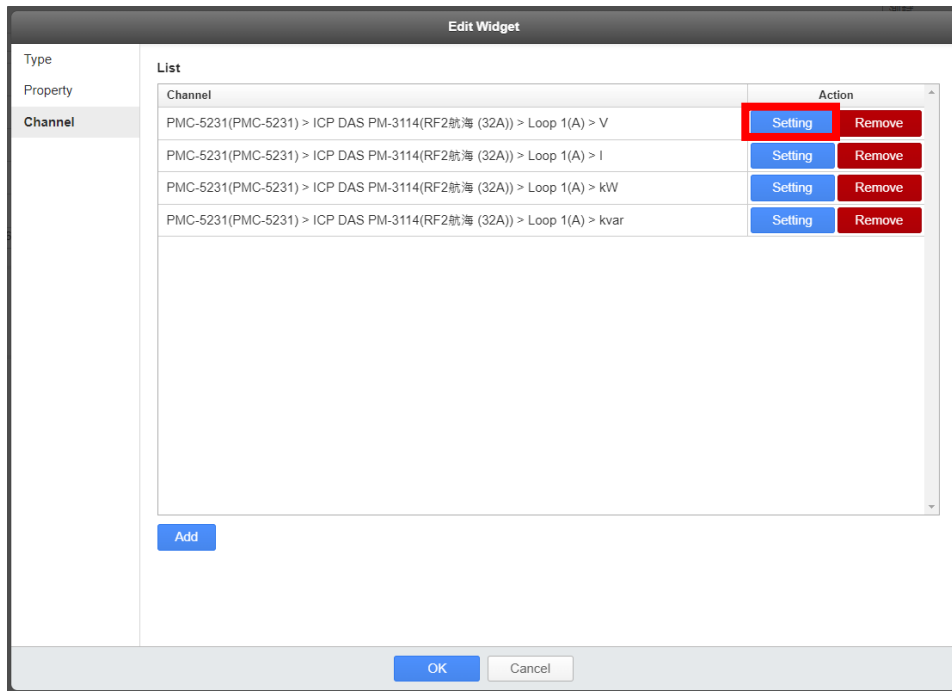




Figure 2-12: The Channel list bound with the Widget

- vi. After clicking the “Setting” button, system will enter the "Channel Setting" page, and user can click the "Browser" button in the “Icon” field to assign the corresponding icon file for this I/O channel (power data). In addition, user can also activate the "Dynamic Value Display" function for the I/O channel (power data). This function can dynamically adjust the color used for the value display or replace it with the specified corresponding text or picture according to the real-time value of the I/O channel (power data). To enable this function, please click the  button in the “Threshold” field to assign the threshold and its corresponding value display color (or text/picture to be used) for this I/O channel (power data). After complete the setting and system is running

status, if the real-time value of the I/O channel (power data) is greater than the threshold user assign, system will dynamically display the value of the I/O channel (power data) according to user's settings. However, if the real-time value of the I/O channel (power data) is not greater than any threshold user assign, system will apply the "Default" setting for the I/O channel (power data). Now if user complete the setting for the I/O channel (power data), please click the "OK"  button at the bottom of the page to return to the I/O channel (power data) list.

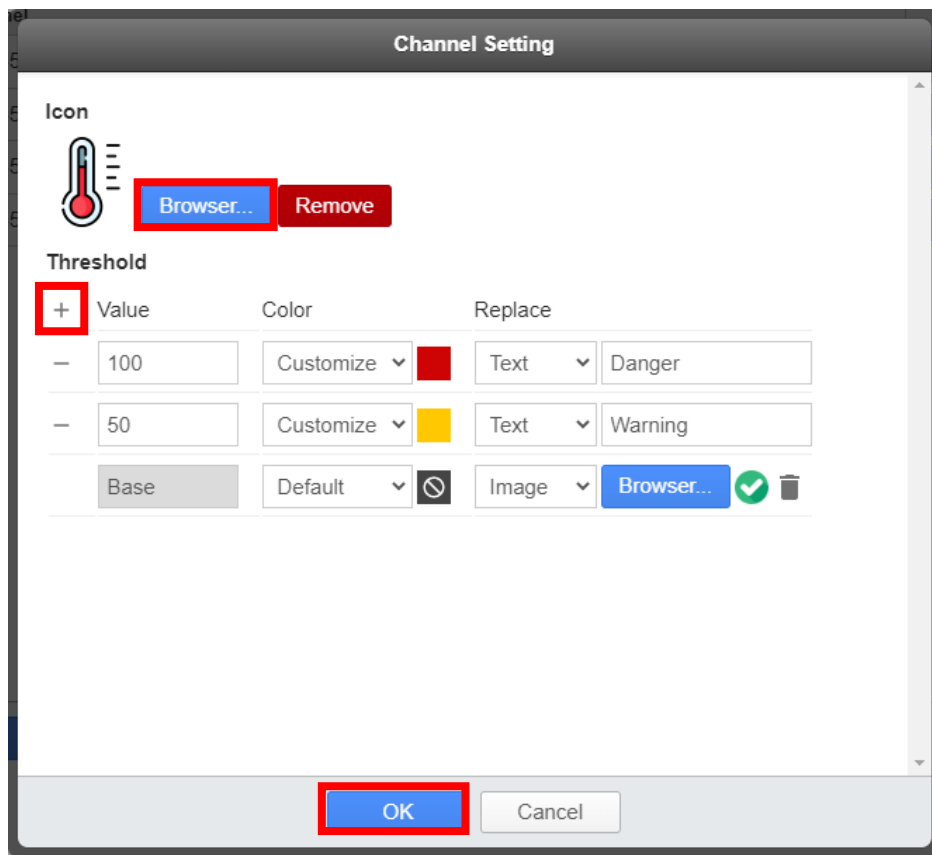



Figure 2-13: Channel Setting for Widget

- vii. After complete the I/O channel (or power data) setting, please click the "OK"  button at the bottom of the page, and the Widget will start to display the real-time data of the bound I/O channel (power data).

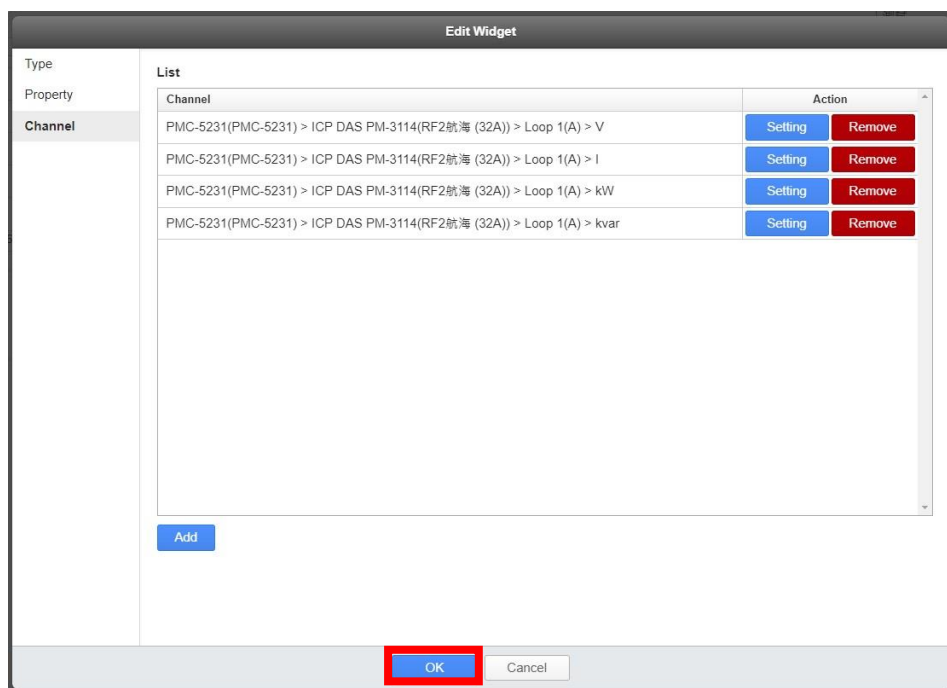


Figure 2-14: The Channel list bound with the Widget

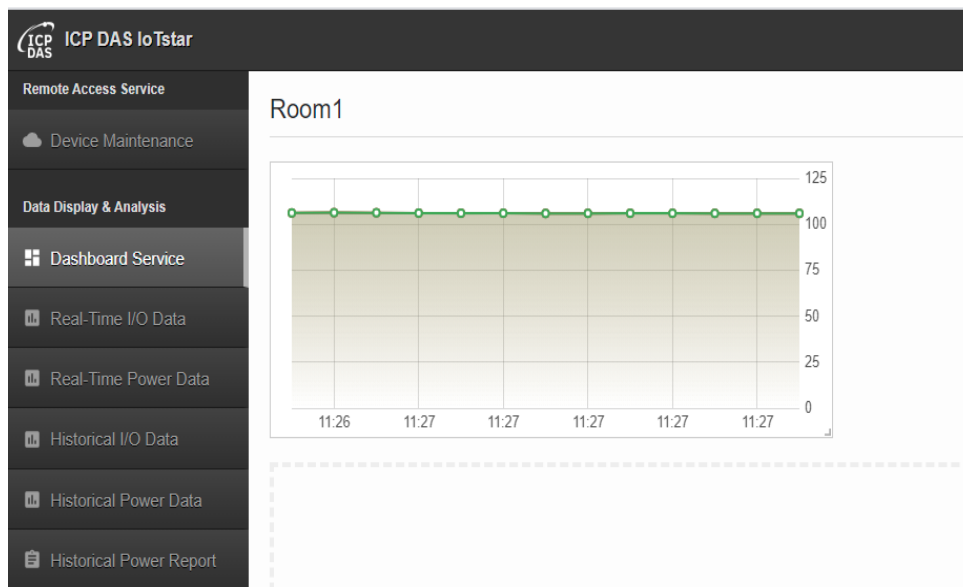


Figure 2-15: Data Display by Dashboard (Line Chart)

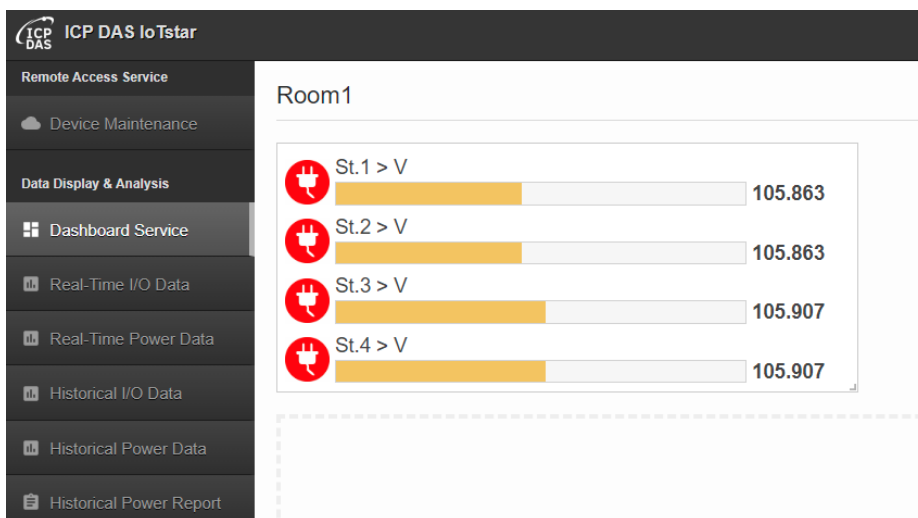



Figure 2-16: Data Display by Dashboard (Plot Bar with Icon)

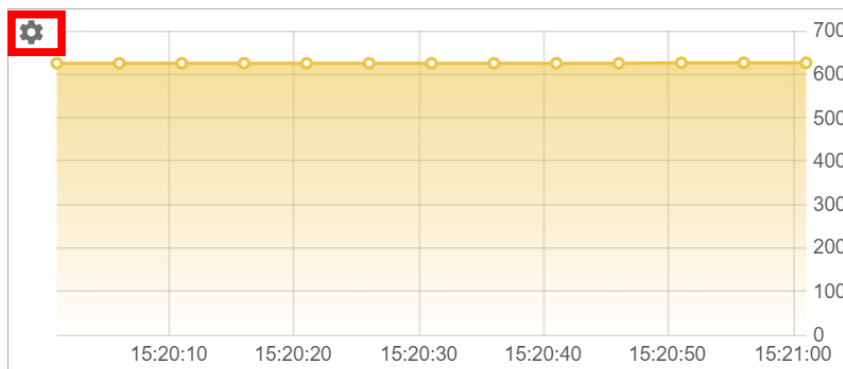
viii. User can repeat the steps of "Step i~vi" to add the required Widgets to the Dashboard page in sequence.

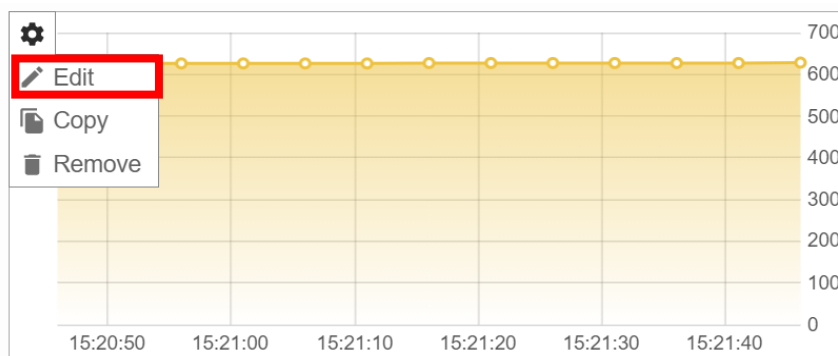
2.5 Change Widget Setting

If user needs to adjust the setting, location, size of Widget, or want to copy or delete the Widget from the Dashboard page, please refer to following information.

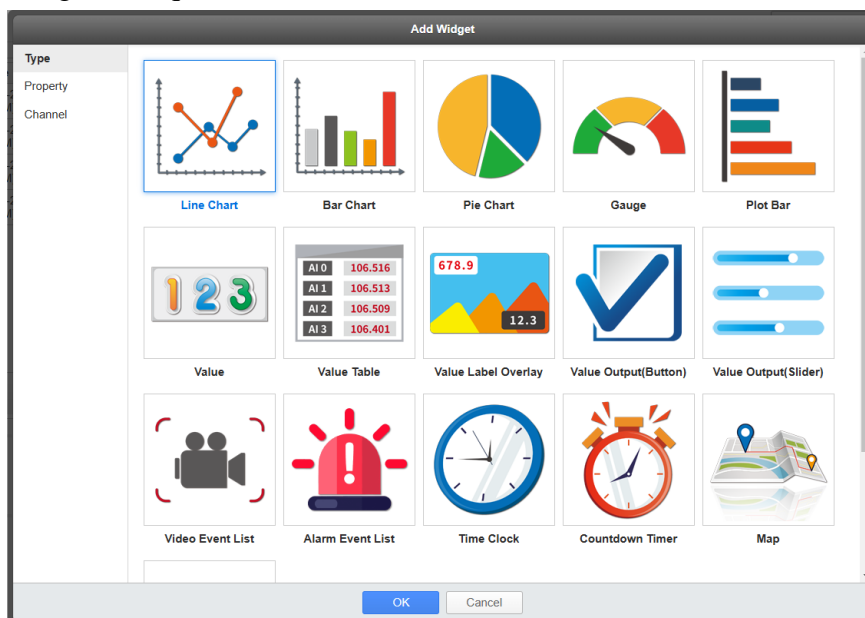
- Adjust Widget setting

Click the  button at the upper left of the Widget, then click the "Edit" button.




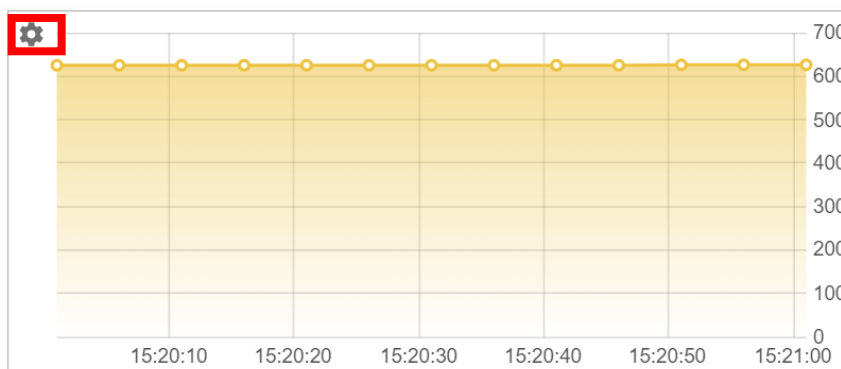


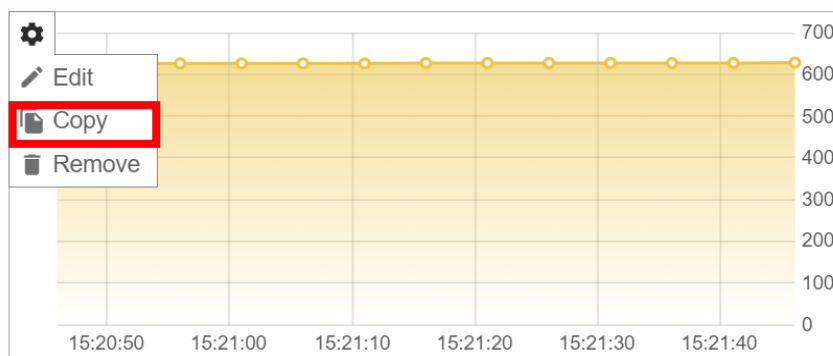
The "Edit Widget" window of the selected Widget will open. User can adjust the "Type", "Property" and "channel" settings of this Widget in sequence.



- Copy Widget


Click the  button at the upper left of the Widget, then click the "Copy" button.

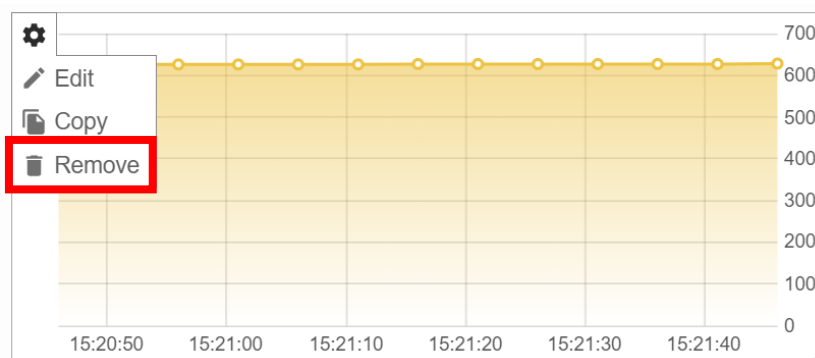
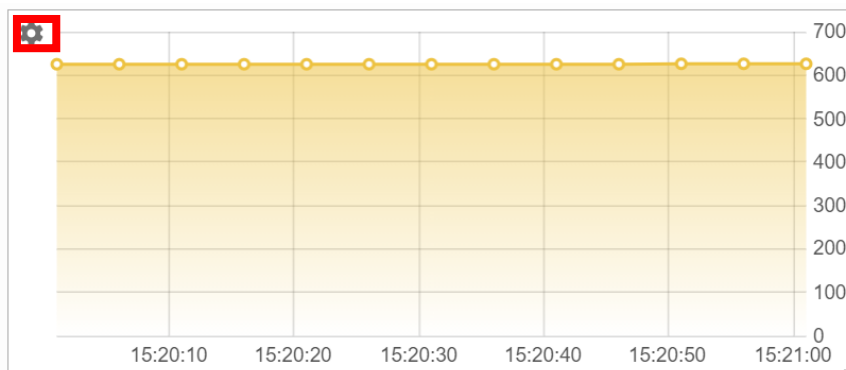




The system will create a new Widget with the same type as the selected Widget, and copy the settings from the selected Widget to the new Widget.

- Delete Widget

Click the  button at the upper left of the Widget, then click the "Remove" button to delete the Widget.

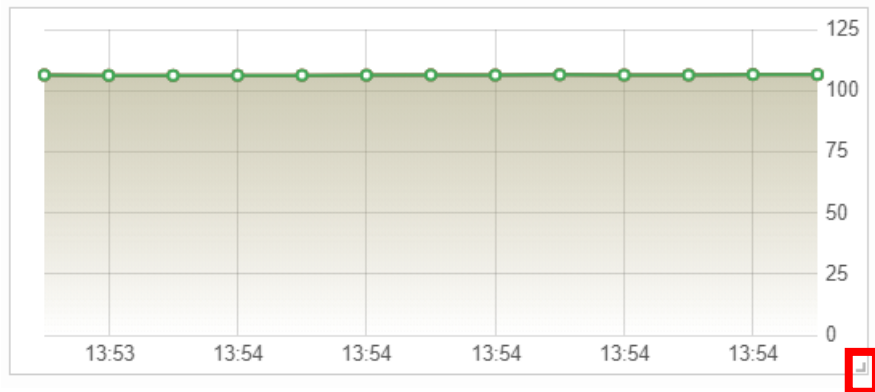


- Adjust Widget location

User can move the mouse to the top of the Widget, and drag the Widget by pressing the left button of the mouse to change the location of the Widget.

- Adjust Widget size


User can move the mouse to the lower right corner of Widget and drag the Widget by pressing the left button of the mouse to change the size of the Widget.




2.6 Dashboard Sharing Setting

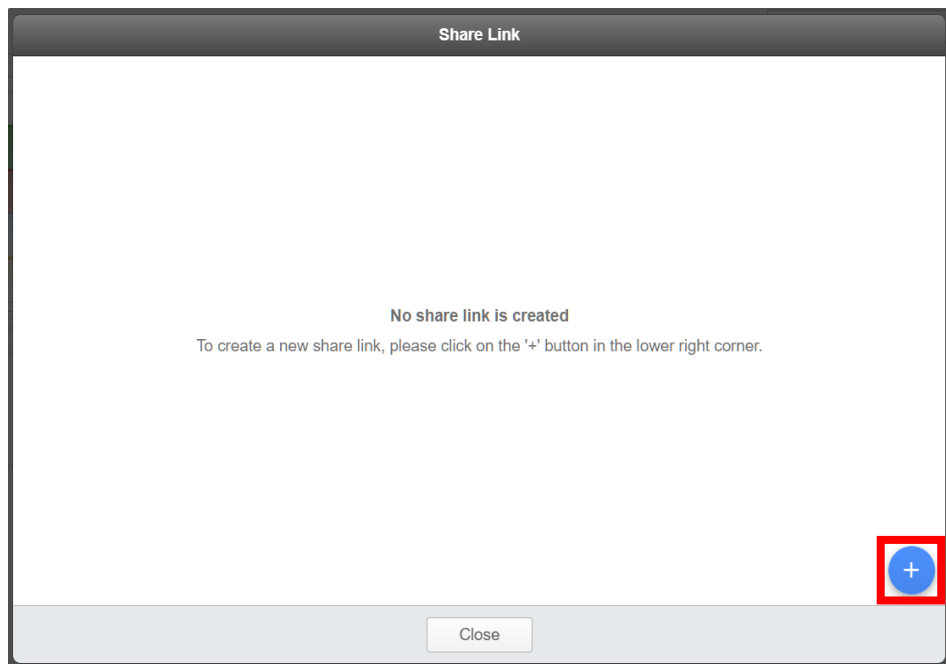
IoTstar provides the "Dashboard Sharing" function. After completing the setting, IoTstar will provide the URL link for the dashboard. User now only needs to open the web browser and key in the URL link to directly enter the dashboard and interact with it, instead of opening the dashboard by logging in IoTstar with the account information. About the setting of "Dashboard Sharing" function, please refer to the following steps:

Please note: IoTstar provide multiple sets of URL link for dashboard, and each URL link has its own setting which can share to users with different permissions to operate with the dashboard.

- Click the "Share  " button on the right of the Dashboard List to enter the "Share Link" setting page.



- After entering the "Share Link" setting page, click the  button at the bottom right corner of the page to add the "Share link".



- iii. The "Share Link" page will display the setting of the newly added URL link. Following is the detail descriptions for each field of the setting.

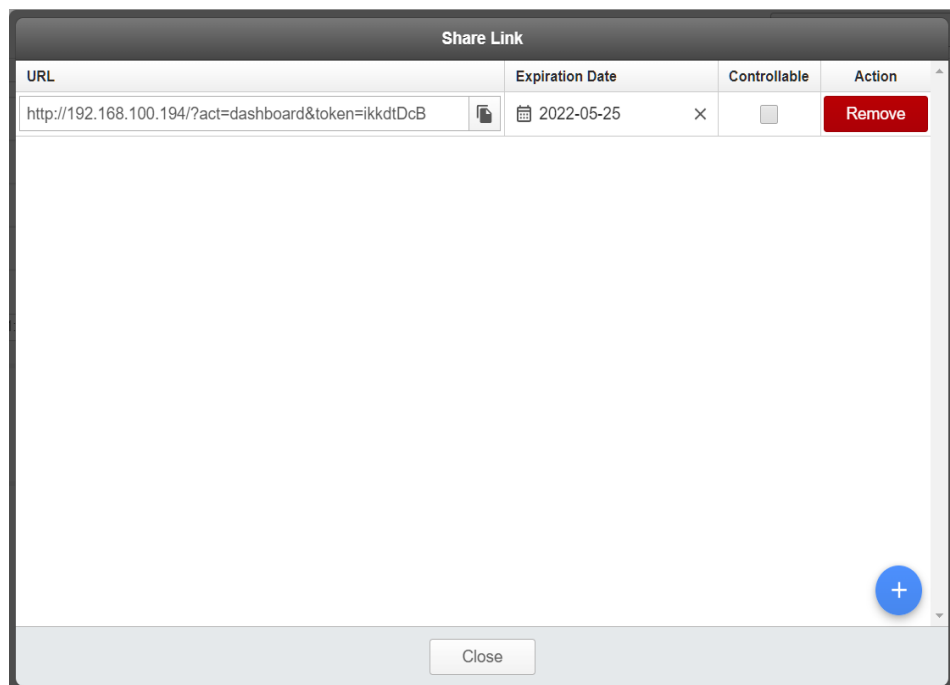
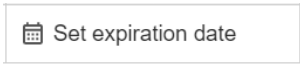


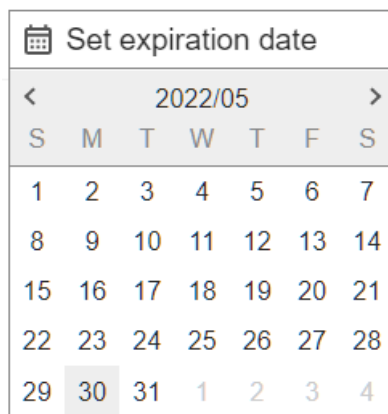
Figure 2-17: "Share Link" setting page

- URL: This field is used to display the URL link of the dashboard, users can directly open the web browser and key in the URL link to directly enter the dashboard page. The system provides a "Copy"



button next to the "URL" field, so user can copy the information of the URL link and save it. **Please note: The setting in the "URL" field is generated and provided by IoTstar. It cannot be edited or changed.**

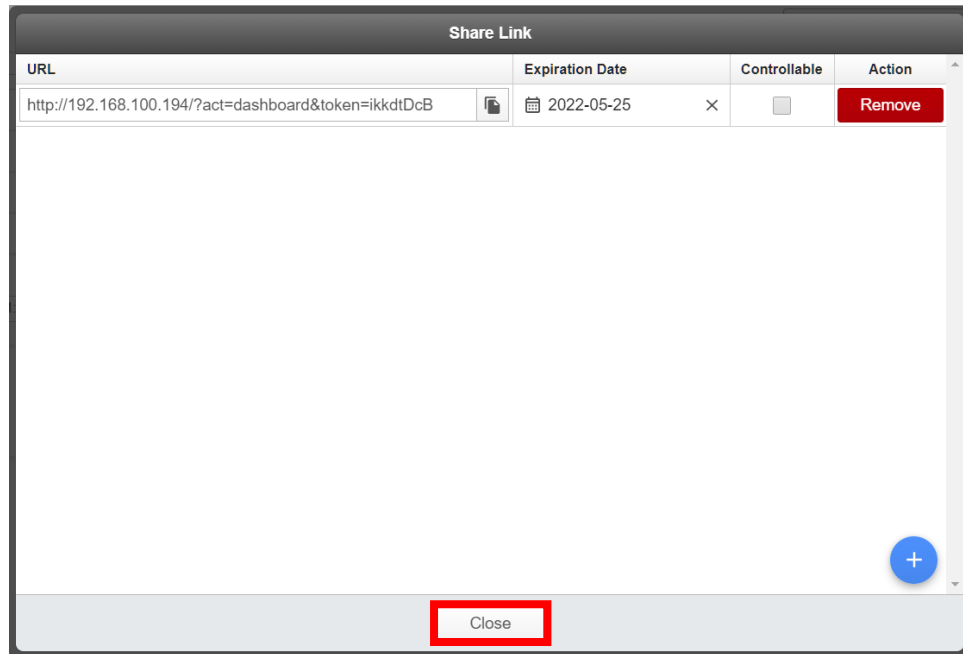
- Expiration Date: This field is used to set up the expiration date of the URL link. After user clicks the  button, IoTstar will provide the calendar interface for user to set up the expiration date of the URL link.



Please note: The default setting of the expiration date is "No expiry date".

- Controllable: Checking the "Controllable" field means to enable the function of the "Value Output(Button)" and "Value Output(Slider)" widgets in the dashboards, otherwise it means to disable the function of "Value Output(Button)" and "Value Output(Slider)" widgets in the dashboards.
- Action: Click the "Remove" button to delete this URL link.

- iv. If there is the requirement for the setting of multiple sets of URL link, user can repeat "step ii~iii" to add others URL link in sequence.
- v. After completing all URL link settings, user can click the "Close" button at the bottom of the page to leave this page.



3 Widget Provided by IoTstar Dashboard Service

IoTstar Dashboard Service provides variety of Widgets for user to edit the Dashboard page for the display of real-time I/O channel data (or power data). For the description of the parameters of these Widgets, please refer to the following sections.

3.1 Line Chart

Line Chart can display the real-time I/O channel data (or power data) received by the Widget through the binding I/O channels (or power loop) according to the setting of "Data Retention" of the Dashboard. It provides an easy way for user to view the I/O channel data (or power data), and further more compare, analyze and observe the trend. Following is the description of



the parameters of Line Chart.

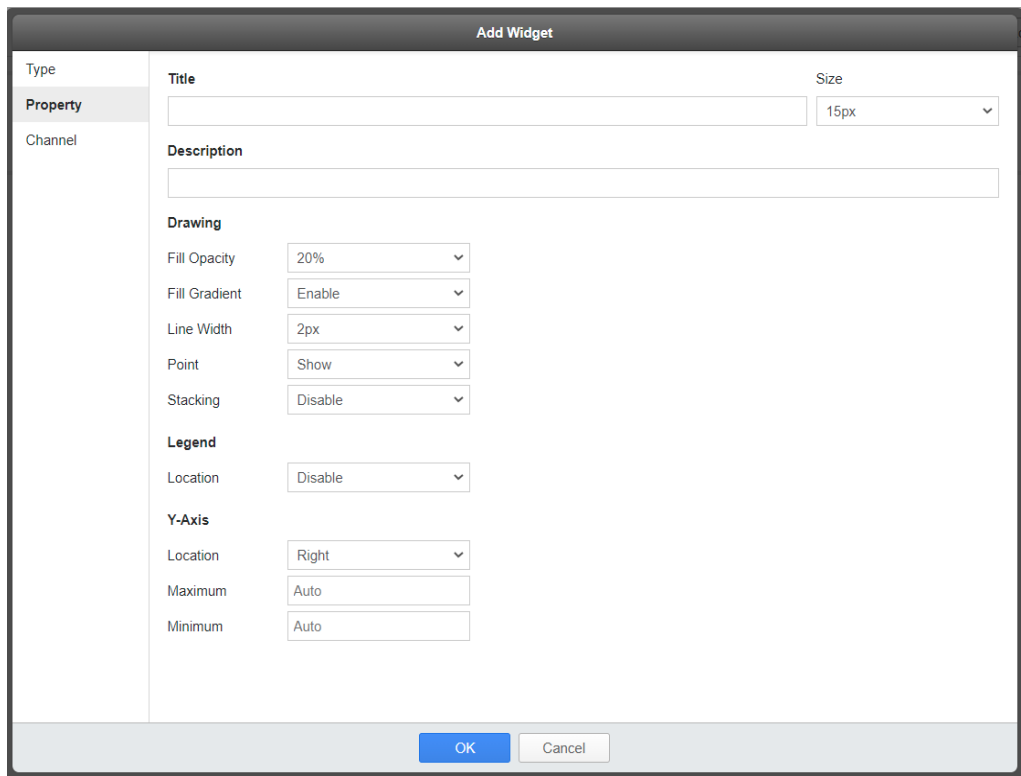
A screenshot of a software interface titled "Add Widget". On the left is a sidebar with "Type", "Property", and "Channel" sections. The main area contains configuration options: "Title" (text input), "Size" (dropdown menu set to "15px"), "Description" (text area), "Drawing" (Fill Opacity: 20%, Fill Gradient: Enable, Line Width: 2px, Point: Show, Stacking: Disable), "Legend" (Location: Disable), and "Y-Axis" (Location: Right, Maximum: Auto, Minimum: Auto). At the bottom are "OK" and "Cancel" buttons.

Figure 3-1: Parameter setting of Line Chart

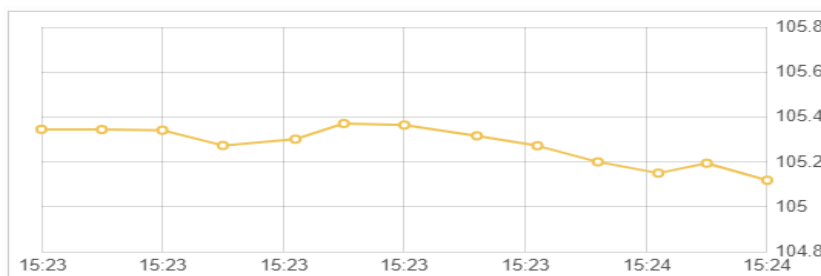
Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

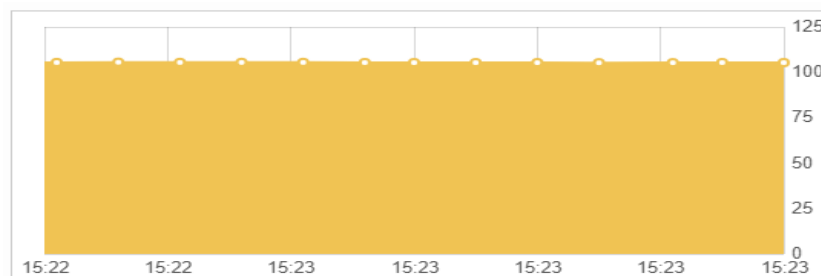
Drawing parameter

- Fill Opacity: For user to define the "Fill Opacity" for the Widget. There are 11 options: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100%.

➤ When "Fill Opacity" is 0%, the Widget is shown as below.

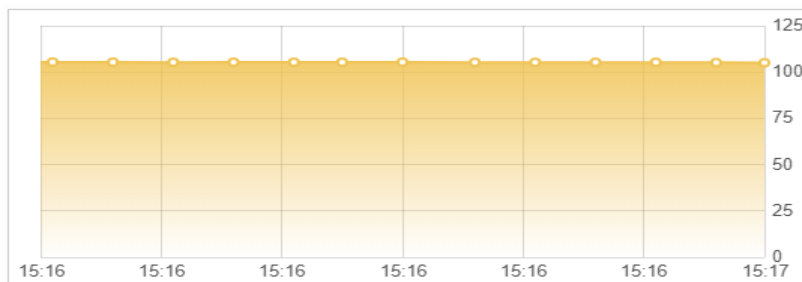


➤ When "Fill Opacity" is 100%, the Widget is shown as below.

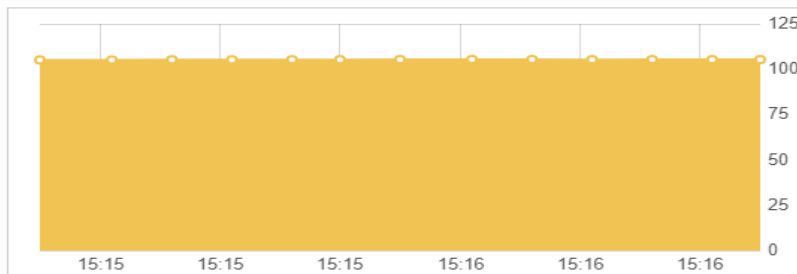


- Fill Gradient: For user to enable the "Fill Gradient" parameter of the Widget, or not.

➤ When "Fill Opacity" is 100% and enable "Fill Gradient", the Widget is shown as below.

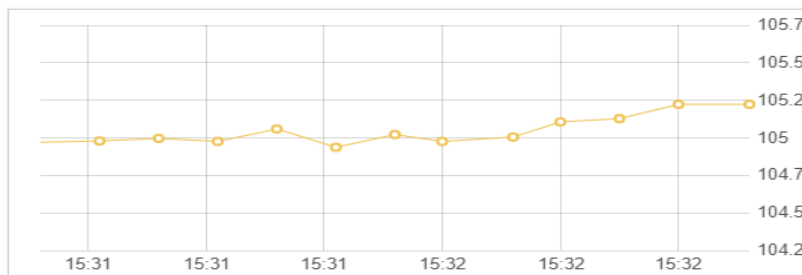


- When "Fill Opacity" is 100% and disable "Fill Gradient", the Widget is shown as below.

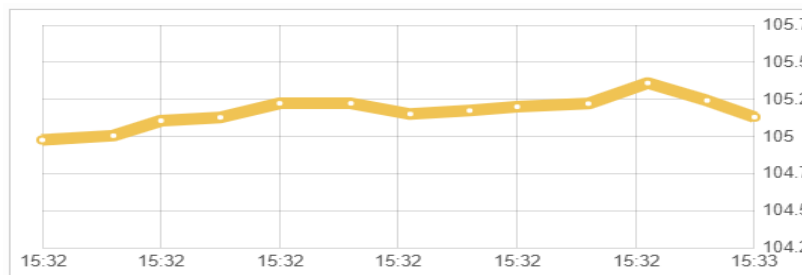


- Line Width: For user to set the line width of the Widget. There are 6 options: 0, 1, 2, 3, 5 and 10. The unit is Pixel(px).

- When " Line Width " is 1px, the Widget is shown as below.

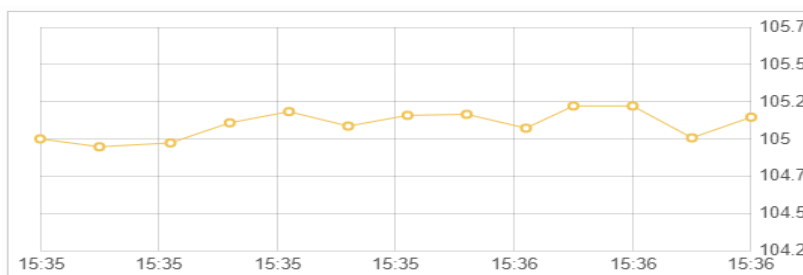


- When " Line Width " is 10px, the Widget is shown as below.

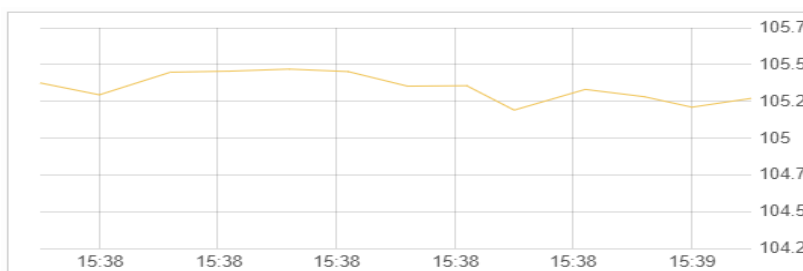


- Point: For user to set if the end points of the line segment of the Widget need to be shown, or not.

- Select "Show", the Widget is shown as below.

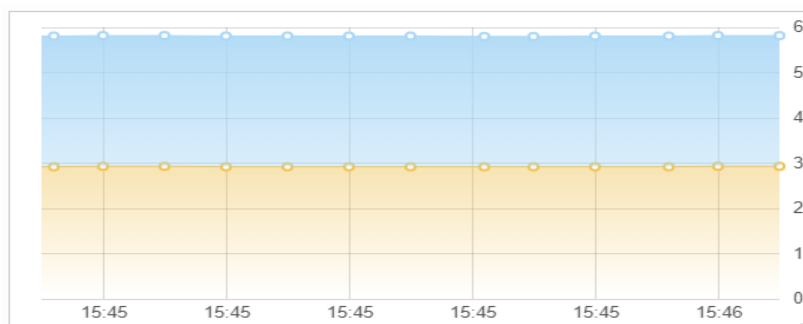


➤ Select "Hide", the Widget is shown as below.

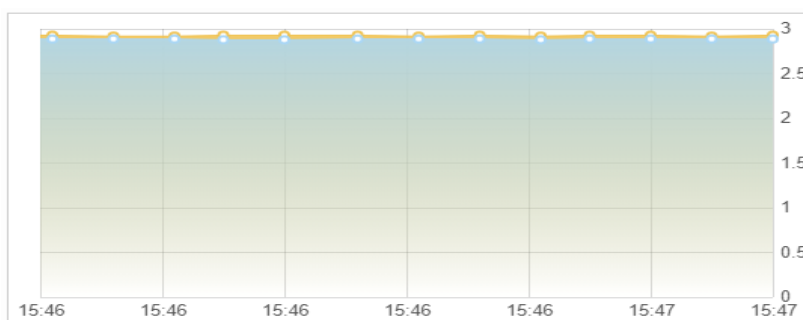


- Stacking: When the Widget is bound with multiple I/O channels (or power loops) at the same time, user can set the parameter to display the corresponding data of these I/O channels (or power loops) in the Stacking mode, or not.

➤ Select "Enable", the Widget is shown as below.



➤ Select "Disable", the Widget is shown as below.

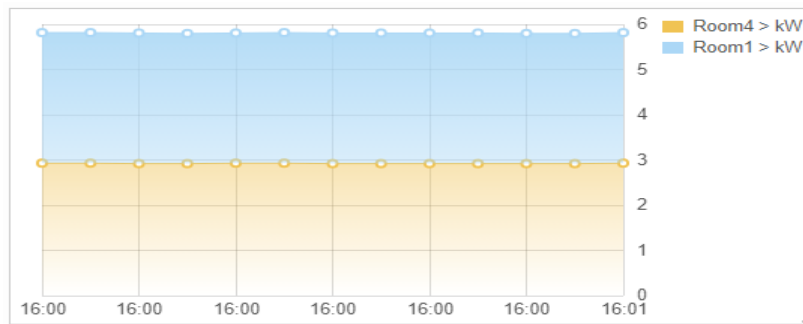


Legend parameter

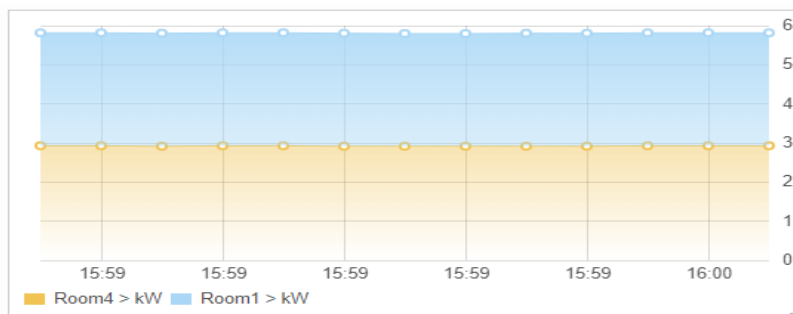
- Location: For user to define the location of the legend for the I/O channels (or power loops) bound to the Widget. If user select "Disable", the Widget will not show legend.

Please Note: Regarding the setting of legend for the corresponding I/O channel (or power loops), user can open the WISE/PMC/PMD Web page through the IoTstar's "Remote Access Service" to set up the name of the I/O channel of I/O modules (or the loop of power meters) which connect to WISE/PMC/PMD, and then download the new setting to WISE/PMC/PMD.

- Select "Right", the Widget is shown as below.

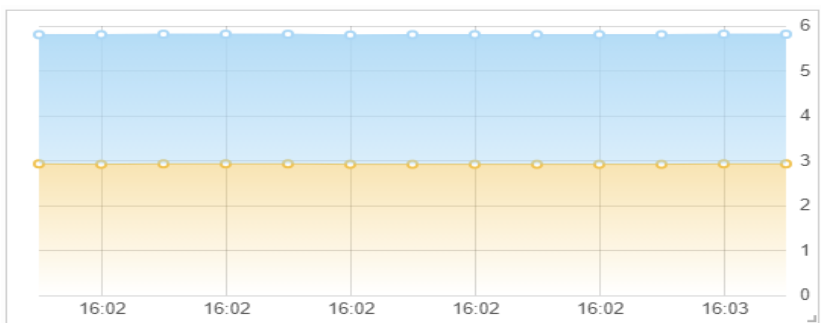


- Select "Bottom", the Widget is shown as below.

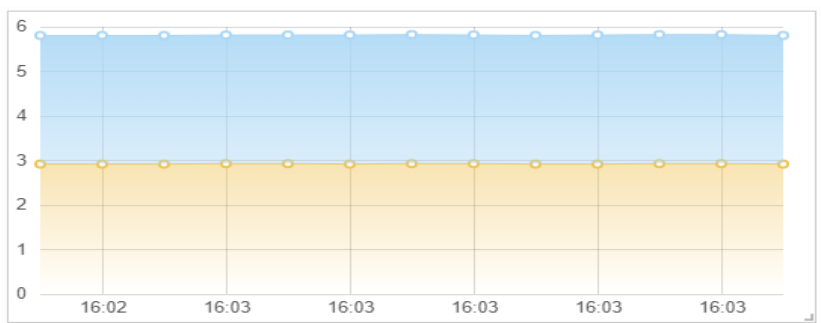


Y-Axis parameter

- Location: For user to define the location of the Y axis of the Widget.
 - Select "Right", the Widget is shown as below.



➤ Select "Left", the Widget is shown as below.

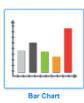


- Maximum: For user to define the maximum value of the Widget's Y axis. If there is no value be entered in this field, the maximum value of the Widget's Y-axis will be dynamically adjusted by the system.
- Minimum: For user to define the minimum value of the Widget's Y axis. If there is no value be entered in this field, the minimum value of the Widget's Y-axis will be dynamically adjusted by the system.

3.2 Bar Chart

Bar Chart can display the real-time I/O channel data (or power data) received by the Widget through the binding I/O channels (or power loops) according to the setting of "Data Retention" of the Dashboard. It provides an easy way for user to view the I/O channel data (or power data), and further more compare, analyze and observe the trend. Following is the description of the

parameter of Bar Chart.



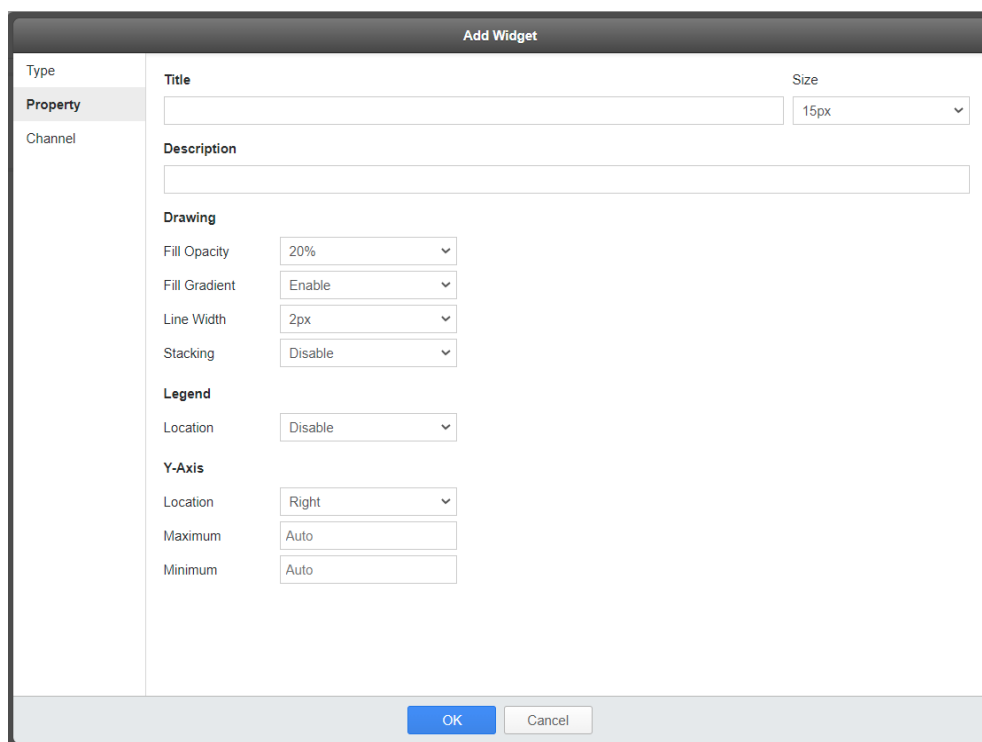


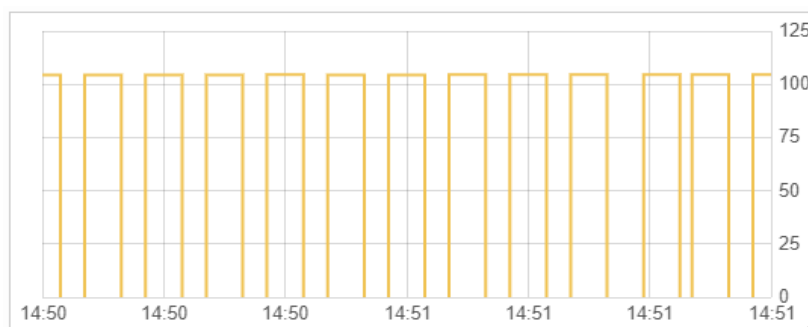
Figure 3-2: Parameter setting of Bar Chart

Basic parameter

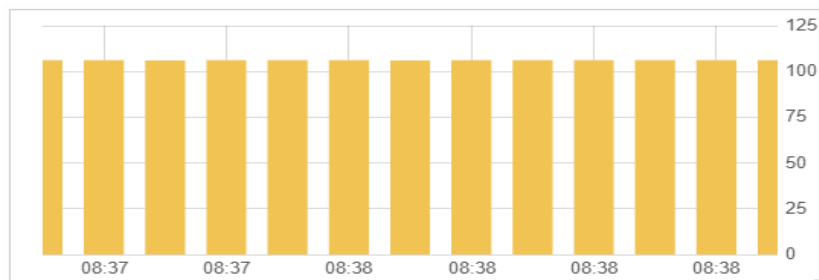
- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Fill Opacity: For user to define the "Fill Opacity" for the Widget. There are 11 options: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100%.
 - When "Fill Opacity" is 0%, the Widget is shown as below.

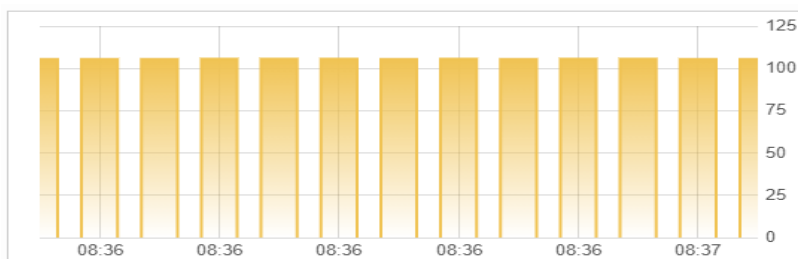


➤ When "Fill Opacity" is 100%, the Widget is shown as below.

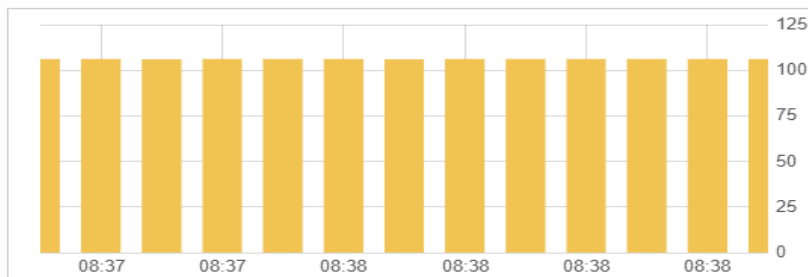


● Fill Gradient: For user to enable the "Fill Gradient" parameter of the Widget, or not.

➤ When "Fill Opacity" is 100% and enable "Fill Gradient", the Widget is shown as below.

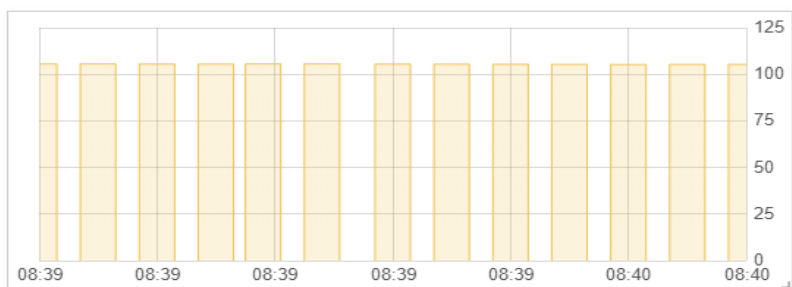


➤ When "Fill Opacity" is 100% and disable "Fill Gradient", the Widget is shown as below.

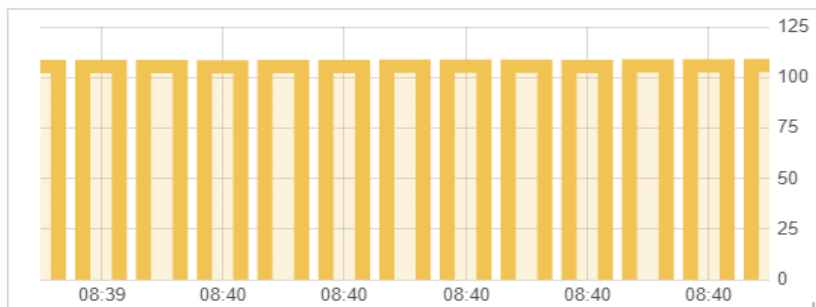


● Line Width: For user to define the line width of the Widget. There are 6 options: 0, 1, 2, 3, 5 and 10. The unit is Pixel(px).

➤ When " Line Width " is 1px, the Widget is shown as below.

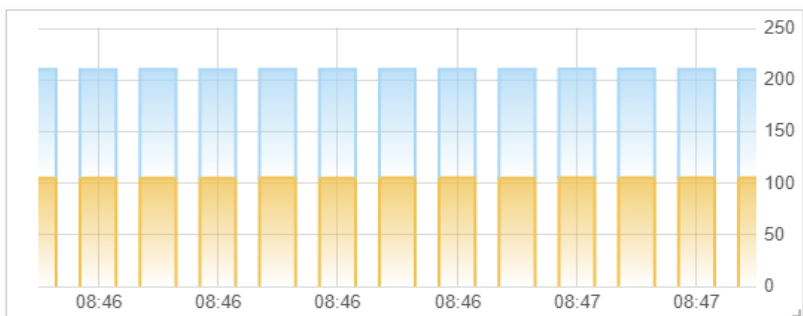


➤ When " Line Width " is 10px, the Widget is shown as below.

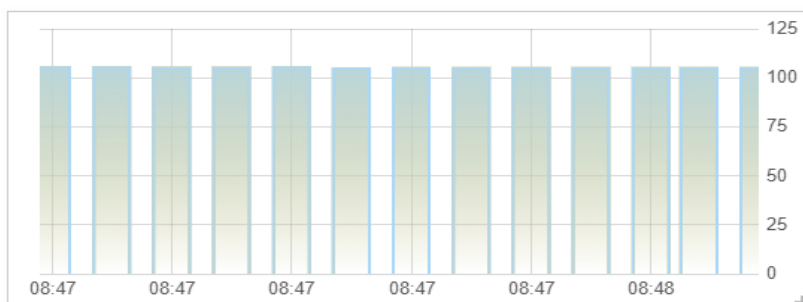


- Stacking: When the Widget is bound with multiple I/O channels (or power loops) at the same time, user can set the parameter to display the corresponding data of these I/O channels (or power loops) in the Stacking mode, or not.

➤ Select "Enable", the Widget is shown as below.



➤ Select "Disable", the Widget is shown as below.

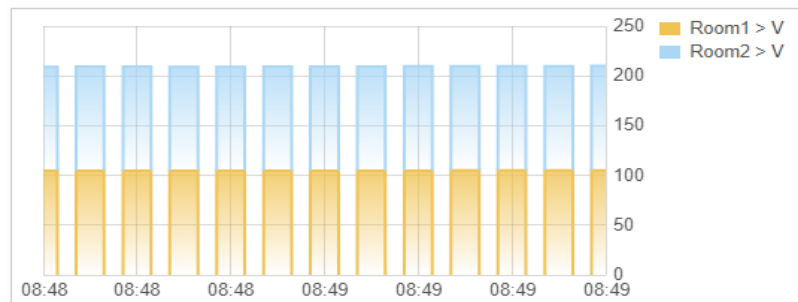


Legend parameter

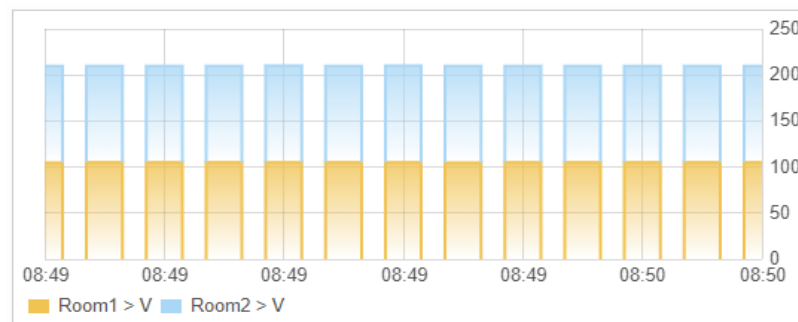
- Location: For user to define the location of the legend for the I/O channel (or power loop) bound to the Widget. If user select "Disable", the Widget will not show legend.

Please Note: Regarding the setting of legend for the corresponding I/O channel (or power loop), user can open the WISE/PMC/PMD Web page through the IoTstar's "Remote Access Service" to set up the name of the I/O channel of I/O modules (or the loop of power meters) which connect to WISE/PMC/PMD, and then download the new setting to WISE/PMC/PMD.

- Select "Right", the Widget is shown as below.

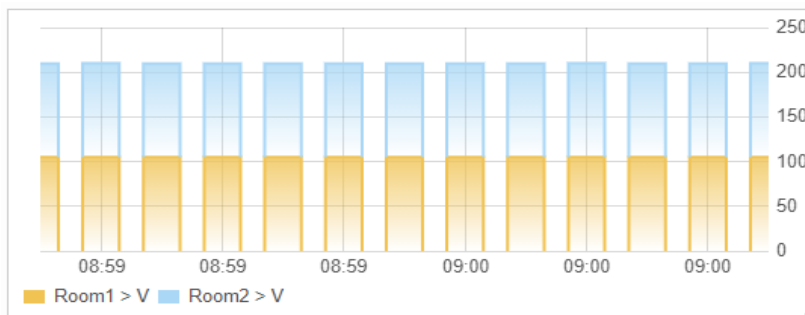


- Select "Bottom", the Widget is shown as below.

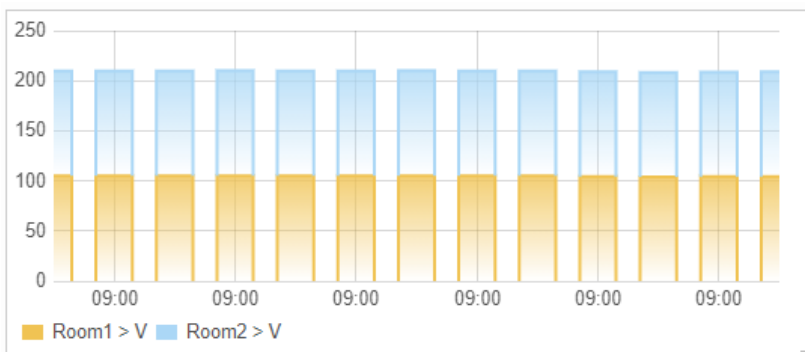


Y-Axis parameter

- Location: For user to define the location of the Y axis of the Widget.
 - Select "Right", the Widget is shown as below.



➤ Select "Left", the Widget is shown as below.



- Maximum: For user to define the maximum value of the Widget's Y axis. If there is no value be entered in this field, the maximum value of the Widget's Y-axis will be dynamically adjusted by the system.
- Minimum: For user to define the minimum value of the Widget's Y axis. If there is no value be entered in this field, the minimum value of the Widget's Y-axis will be dynamically adjusted by the system.

3.3 Pie Chart

Pie Chart can receive the real-time I/O channel data (or power data) through the binding I/O channels (or power loops), and calculate the percentage of the total amount of each I/O channel data (or power data) in the Pie format. It provides an easy way for user to view the relationship between each I/O channel data (or power data). Following is the description of the parameter of



The screenshot shows the 'Add Widget' configuration window. On the left, a sidebar lists 'Type', 'Property', and 'Channel'. The 'Property' section is selected. The main area contains the following settings:

- Title:** A text input field.
- Size:** A dropdown menu currently set to '15px'.
- Description:** A large text area for a brief description.
- Drawing:**
 - Donut Hole:** A dropdown menu set to 'Enable'.
 - Value Mode:** A dropdown menu set to 'Latest Value'.
- Legend:**
 - Location:** A dropdown menu set to 'Disable'.

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

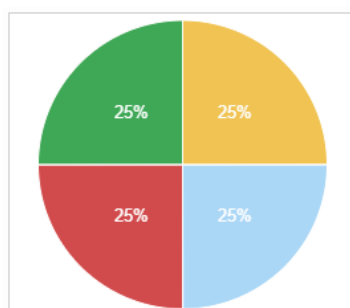
Figure 3-3: Parameter setting of Pie Chart

Basic parameter

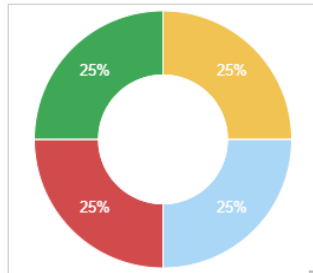
- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Donut Hole: For user to define whether the Widget is hollow, or not.
 - When disable the "Donut Hole" setting, the Widget is shown as below.



- When enable the "Donut Hole" setting, the Widget is shown as below.



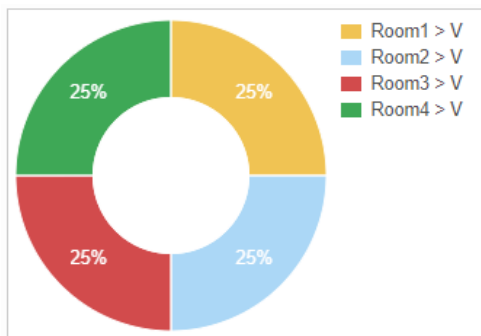
- Value Mode: For user to define the "Value Calculation" mode of the Widget.
 - When set to "Average Value", the Widget will be set according to the "Data Retention" setting of Dashboard, and dynamically calculate the average I/O channel data (or power data) of each binding I/O channel (or power loop), and then use these average value to calculate the percentage of the total amount of each I/O channel data (or power data).
 - When set to "Latest Value", the Widget will use the latest I/O channel data (or power data) of each binding I/O channel (or power loop) to calculate the percentage of the total amount of each I/O channel data (or power data).

Legend parameter

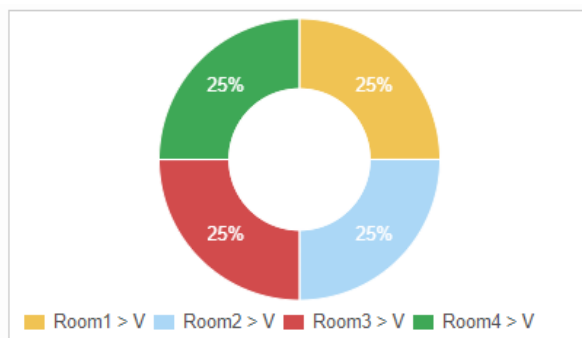
- Location: For user to define the location of the legend for the I/O channel (or power loop) bound to the Widget. If user select "Disable", the Widget will not show legend.

Please Note: Regarding the setting of legend for the corresponding I/O channel (or power loop), user can open the WISE/PMC/PMD Web page through the IoTstar's "Remote Access Service" to set up the name of the I/O channel of I/O modules (or the loop of power meters) which connect to WISE/PMC/PMD, and then download the new setting to WISE/PMC/PMD.

➤ Select "Right", the Widget is shown as below.



➤ Select "Bottom", the Widget is shown as below.



3.4 Gauge

Gauge can display the real-time I/O channel data (or power data) through the binding I/O channels (or power loop). It also provides the setting of

Threshold. Following is the description of the parameter of Gauge.



The screenshot shows the 'Add Widget' configuration window. On the left, a sidebar lists 'Type', 'Property', and 'Channel'. The 'Property' section is selected. The main configuration area includes:

- Title:** A text input field.
- Size:** A dropdown menu currently set to '15px'.
- Description:** A large text area for a brief description.
- Drawing:** A section for visual settings:
 - Value Mode:** A dropdown menu set to 'Latest Value'.
 - Marker:** A dropdown menu set to 'Enable'.
 - Threshold:** A section with three levels:
 - Minimum:** A text input field set to '0'.
 - Threshold 1:** A text input field set to '50', with **Color 1** set to 'Green'.
 - Threshold 2:** A text input field set to '80', with **Color 2** set to 'Yellow'.
 - Maximum:** A text input field set to '100', with **Color 3** set to 'Red'.

At the bottom, there are 'OK' and 'Cancel' buttons.

Figure 3-4: Parameter setting of Gauge

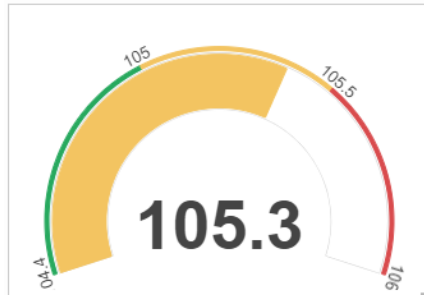
Basic parameter

- **Title:** For user to define the name of the Widget and its size.
- **Description:** This field provides a space for the user to make a brief description of this Widget.

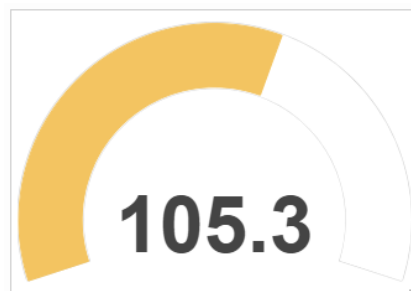
Drawing parameter

- **Value Mode:** For user to define the "Value Calculation" mode of the Widget.
 - When set to "Average Value", the Widget will be set according to the "Data Retention" setting of Dashboard, and dynamically calculate the average I/O channel data (or power data) of each binding I/O channel (or power loop), and then use these average value to calculate the percentage of the total amount of each I/O channel data (or power data).
 - When set to "Latest Value", the Widget will use the latest I/O channel data (or power data) of each binding I/O channel (or power loop) to calculate the percentage of the total amount of each I/O channel data (or power data).

- **Marker:** For user to define whether the "Marker" of the Widget be shown, or not.
 - If it is "Enable", the Widget will show the "Marker" based on the setting of the "Threshold" section. The Widget is shown as below.



- If it is "Disable", The Widget is shown as below.



Threshold parameter

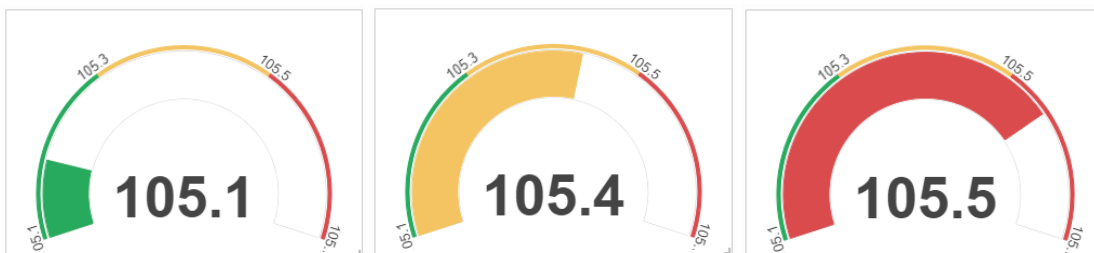
The Widget provides the Threshold function, user can set three threshold intervals and the corresponding colors for the function. When the I/O channel data (or power data) which the Widget receive belongs to a Threshold interval, the corresponding color of the Threshold interval will be used for drawing.

- **Minimum:** For user to set the minimum value of the Widget's Marker.
- **Color 1:** For user to define the corresponding color of the "Threshold interval 1" (Value between "Minimum ~ Threshold 1").
- **Threshold 1:** For user to define the value of "Threshold 1".
- **Color 2:** For user to define the corresponding color of the "Threshold interval 2" (Value between "Threshold 1 ~ Threshold 2").
- **Threshold 2:** For user to define the value of "Threshold 2".
- **Color 3:** For user to define the corresponding color of the "Threshold

interval 3" (Value between "Threshold 3 ~ Maximum").

- Maximum: For user to set the maximum value of the Widget's Marker.

After enable "Marker", and complete the Threshold setting, the Widget is shown as below.



3.5 Plot Bar

Plot Bar can display the real-time I/O channel data (or power data) through the binding I/O channels (or power loop). Following is the description of the



parameter of Plot Bar.





Figure 3-5: Parameter setting of Plot Bar

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Value Mode: For user to define the "Value Calculation" mode of the Widget.
 - When set to "Average Value", the Widget will be set according to the "Data Retention" setting of Dashboard, and dynamically calculate the average I/O channel data (or power data) of each binding I/O channel (or power loop), and then use these average value to calculate the percentage of the total amount of each I/O channel data (or power data).
 - When set to "Latest Value", the Widget will use the latest I/O channel data (or power data) of each binding I/O channel (or power loop) to calculate the percentage of the total amount of each I/O channel data (or power data).
- Icon: User can set up whether the I/O channel (or power value) bound with this component needs to display the "Icon" file, or not.
 - If it is "Enable", and the I/O channel (or power value) bound with an icon file. The Widget is shown as below.

Channel	Value
 St.1 > V	104.638 V
 St.2 > V	104.638 V
 St.3 > V	104.711 V
 St.4 > V	104.711 V

- If it is "Disable", the Widget is shown as below.

St.1 > V	 106.655 V
St.2 > V	 106.655 V
St.3 > V	 106.7 V
St.4 > V	 106.7 V

Please Note: This Widget provide the unit display function for the I/O channel data (or power data). About the unit of power data, it is provided by IoTstar. About the unit of I/O channel data, user can open the WISE Web page through the IoTstar's "Remote Access Service" to set up the unit of the I/O channel of I/O modules which connect to WISE, and then download the new setting to WISE.

3.6 Value

Value Widget can display the real-time I/O channel data (or power data) through the binding I/O channels (or power loop). Following is the



description of the parameter of Value Widget.

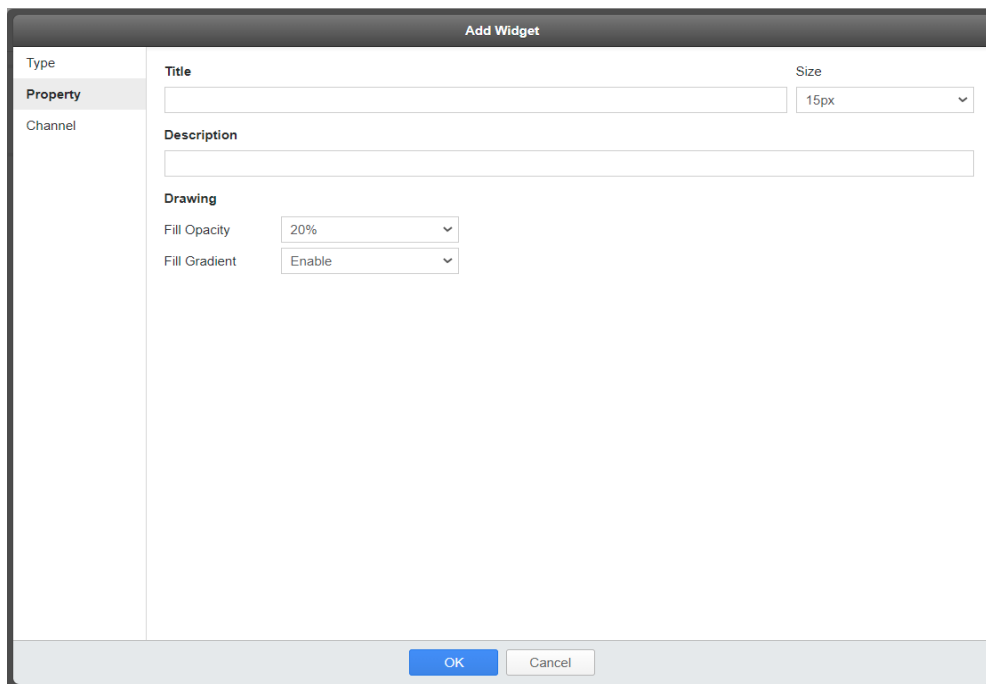


Figure 3-6: Parameter setting of Value Widget

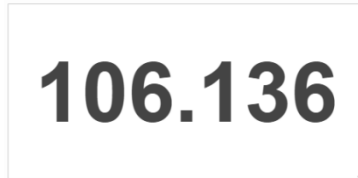
Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

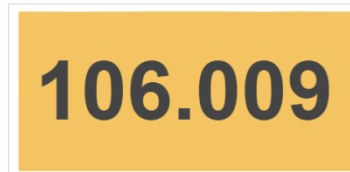
Drawing parameter

- **Fill Opacity:** For user to define the "Fill Opacity" for the Widget. There are 11 options: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100%.

➤ When "Fill Opacity" is 0%, the Widget is shown as below.

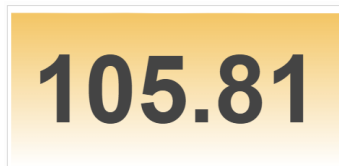


➤ When "Fill Opacity" is 100%, the Widget is shown as below.

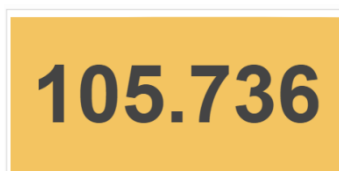


- **Fill Gradient:** For user to enable the "Fill Gradient" parameter of the Widget, or not.

➤ When "Fill Opacity" is 100% and enable "Fill Gradient", the Widget is shown as below.



➤ When "Fill Opacity" is 100% and disable "Fill Gradient", the Widget is shown as below.



3.7 Value Table

Different from the Value Widget which can only display single I/O channel data (or power data), the Value Table can display multiple I/O channels (or

power data) in the Table format. It is convenient for user to compare the multiple I/O channel data (or power data) at the same time. Following is the

description of the parameter of Value Table.







Figure 3-7: Parameter setting of Value Table

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Icon: User can set up whether the I/O channel (or power value) bound with this component needs to display the "Icon" file, or not.
 - If it is "Enable", and the I/O channel (or power value) bound with an icon file. The Widget is shown as below.

Channel	Value
 St.1 > V	104.638 V
 St.2 > V	104.638 V
 St.3 > V	104.711 V
 St.4 > V	104.711 V

➤ If it is "Disable", the Widget is shown as below.

Channel	Value
St.1 > V	104.638 V
St.2 > V	104.638 V
St.3 > V	104.711 V
St.4 > V	104.711 V

Please Note: This Widget provide the unit display function for the I/O channel data (or power data). About the unit of power data, it is provided by IoTstar. About the unit of I/O channel data, user can open the WISE Web page through the IoTstar's "Remote Access Service" to set up the unit of the I/O channel of I/O modules which connect to WISE, and then download the new setting to WISE.

3.8 Value Output (Button)

The Value Output (Button) Widget can be used to set up the output value of the DO/AO channel of I/O module connected to WISE/PMC/PMD, or the value of Internal Register of WISE/PMC/PMD by clicking the button. When user changes the value of the DO/AO channel or Internal Register through the Widget, the command will be transmitted to WISE/PMC/PMD through IoTstar. After WISE/PMC/PMD receive the command, WISE/PMC/PMD will execute the corresponding actions to change the output value of the DO/AO channel of the I/O module or the value of the WISE/PMC/PMD Internal Register. Following is the description of the

parameter of Value Output (Button) Widget.



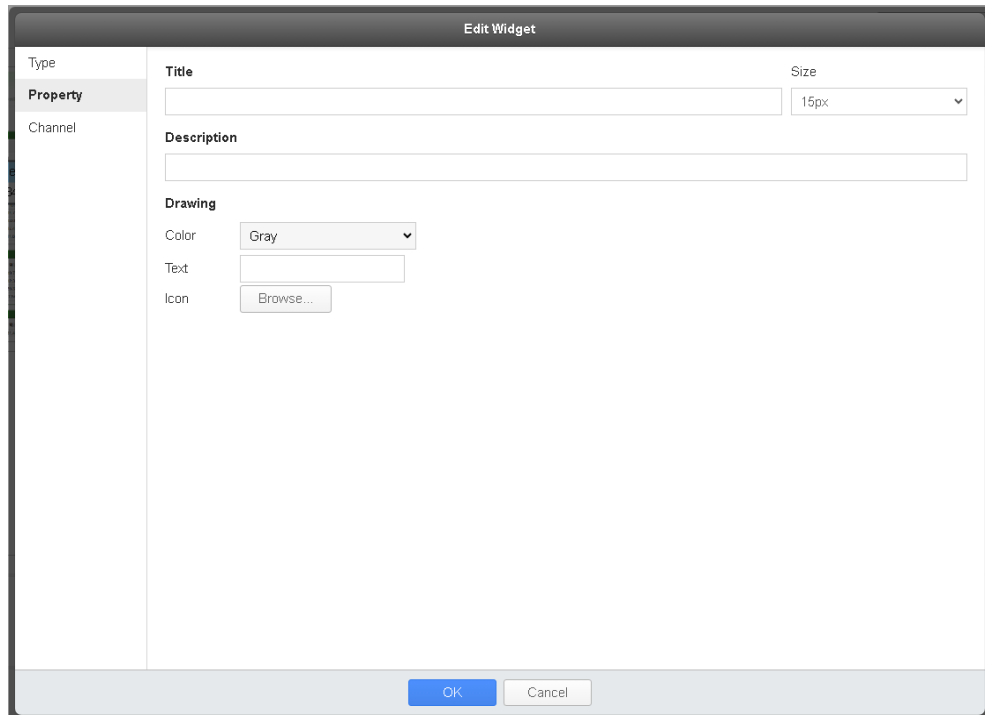


Figure 3-8: Parameter setting of Value Output (Button) Widget

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Color: For user to set color of the Widget, it provides three colors (Gray, Blue, Red) for selection.
- Text: For user to set the text will be shown by the Widget.
- Icon: For user to set the icon will be shown by the Widget.

Channel Parameter

User can click the "Channel" button of the Value Output (Button) widget to enter the "Edit Widget" page of the widget and then click the "Setting" button on the right of the I/O channels (power data) or Internal Register to enter the "Channel setting" page of the selected channel, and complete the parameters setting.

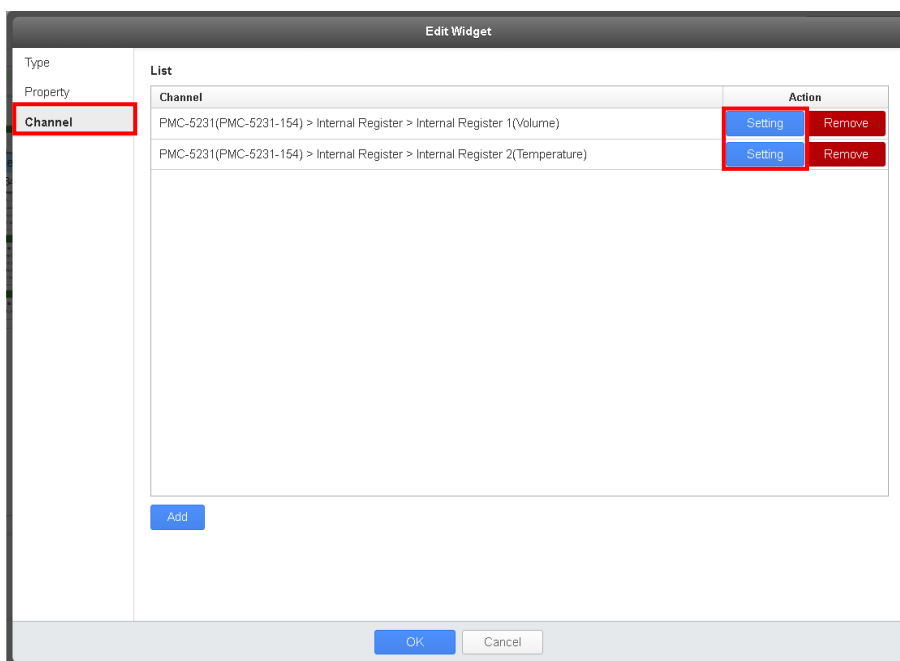
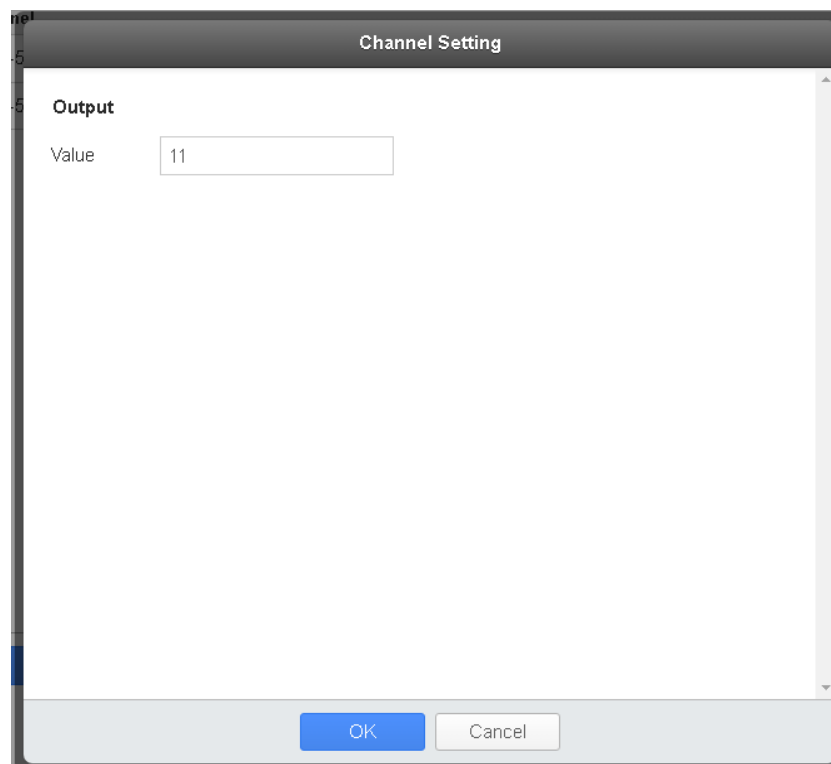


Figure 3-9: Channel setting of Value Output (Button) Widget



- Output
 - Value: For user to set up the output value of the selected channel.

Following is an example to change the Internal Register value of PMC by 2

Value Output (Button) Widgets. One is naming as "Door Close", the other is naming as "Door Open".

- The setting of "Door Close" Widget.

Drawing

Color: Blue

Text: Door Close

Icon:

List

Channel	Action
PMC-5231(PMC-5231-154) > Internal Register > Internal Register 1	<input type="button" value="Setting"/> <input type="button" value="Remove"/>

Channel Setting

Output

Value: 0

- The setting of "Door Open " Widget.

Drawing

Color: Red

Text: Door Open

Icon:

List

Channel	Action
PMC-5231(PMC-5231-154) > Internal Register > Internal Register 1	<input type="button" value="Setting"/> <input type="button" value="Remove"/>

Channel Setting

Output

Value: 1

- When user clicks on "Door Close" Widget, the Internal Register value of PMC will be change to 0.



- When user clicks on "Door Open" Widget, the Internal Register value of PMC will be change to 1.



3.9 Value Output (Slider)

The Value Output (Slider) Widget can be used to dynamically set up the value of the DO/AO channel of I/O module connected to WISE/PMC/PMD, or the value of Internal Register of WISE/PMC/PMD by moving the round point of the slider (or click the value below the round point and change the output value through Virtual keypad). When user changes the value of the DO/AO channel or Internal Register through the Widget, the command will be transmitted to WISE/PMC/PMD through IoTstar. After WISE/PMC/PMD receive the command, WISE/PMC/PMD will execute the corresponding actions to change the value of the DO/AO channel of the I/O module or the value of the WISE/PMC/PMD Internal Register. Following is

the description of the parameter of Value Output (Slider) Widget.

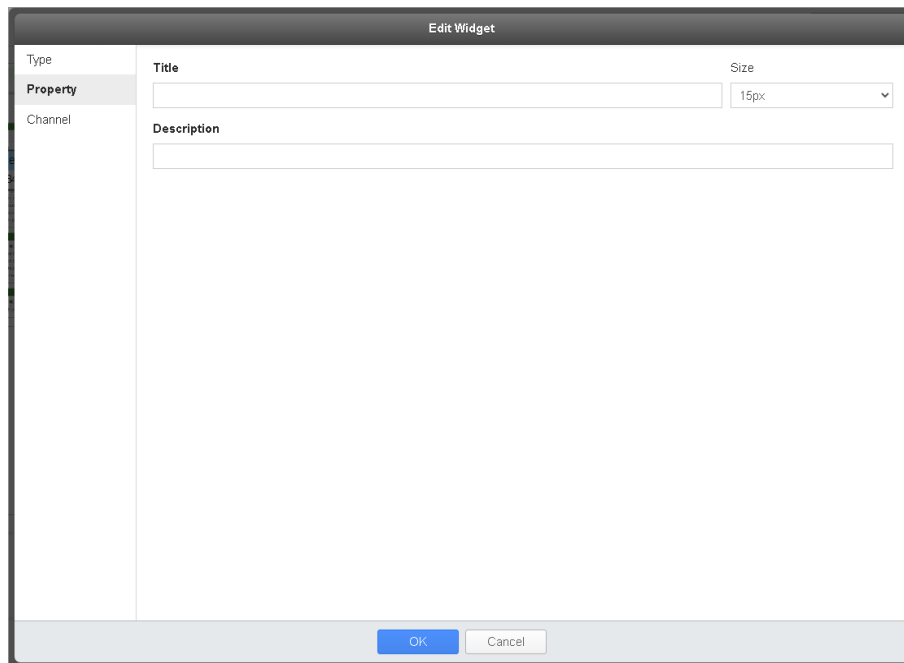


Figure 3-10: Parameter setting of Value Output(Slider) Widget

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Channel parameter

User can click the "Channel" button of the Value Output (Slider) widget

to enter the "Edit Widget" page of the widget and then click the "Setting" button on the right of the I/O channels (power data) or Internal Register to enter the "Channel setting" page of the selected channel to complete the parameters setting.

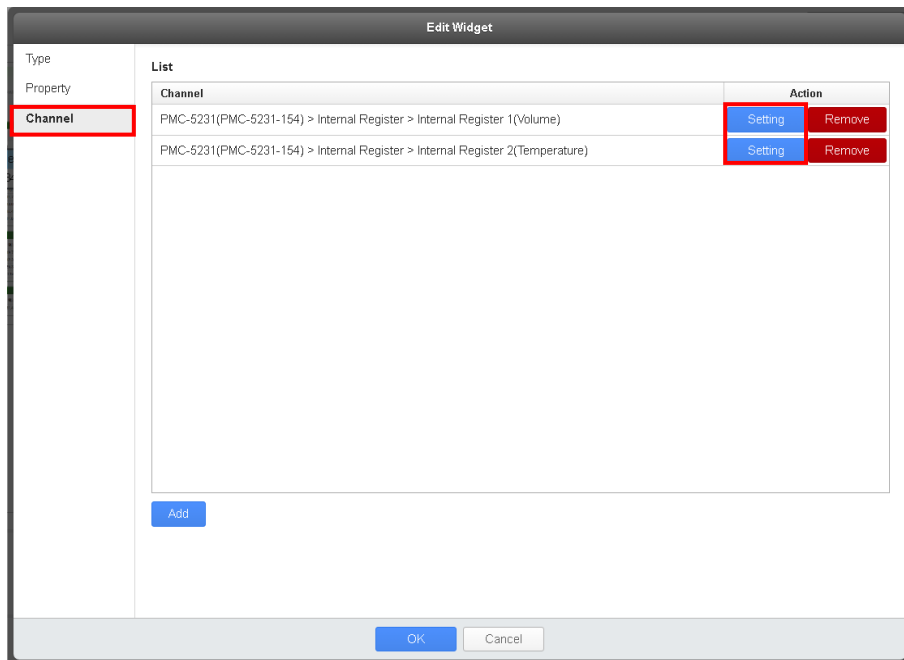
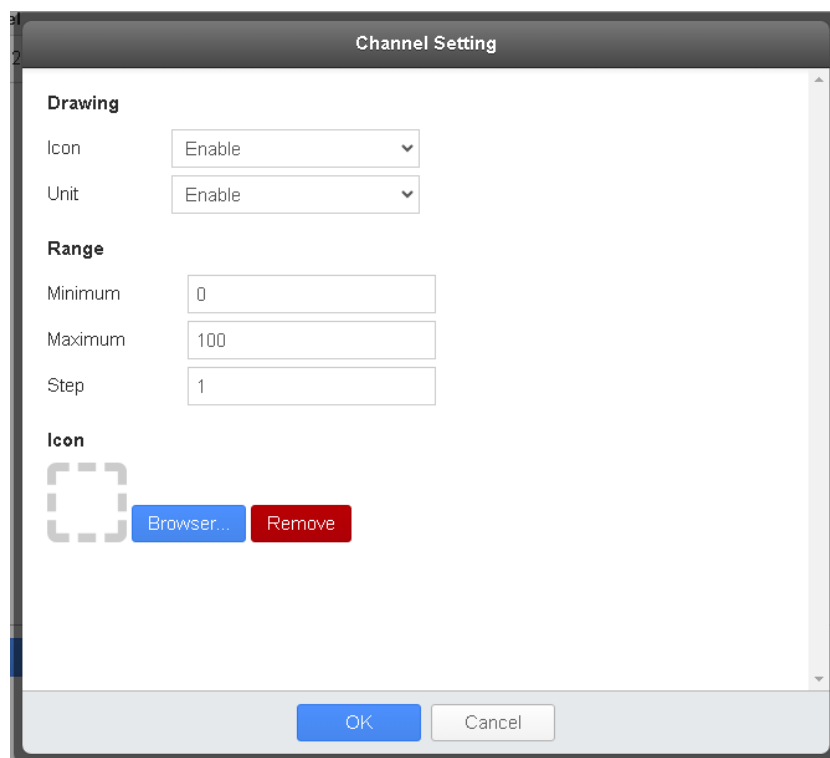


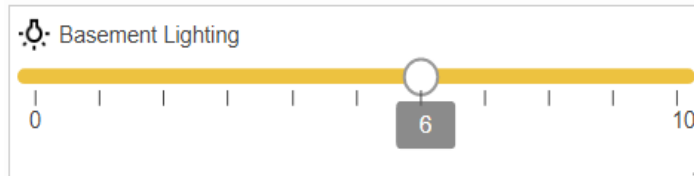
Figure 3-11: Channel setting of Value Output (Slider) Widget



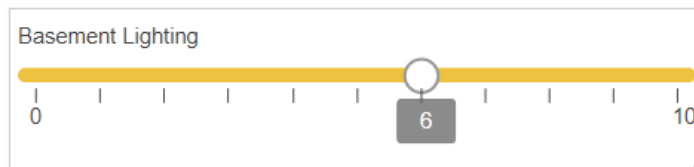
- Drawing

- Icon: User can set up whether the DO/AO channel (or internal register) bound with this widget needs to display the "Icon" file, or not.

- If it is "Enable", and the DO/AO channel (or internal register) bound with an icon file. The Widget is shown as below.



- If it is "Disable", the Widget is shown as below.

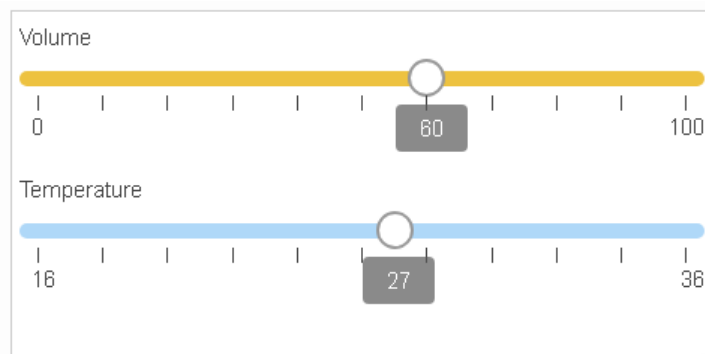


- Unit: User can set up whether the DO/AO channel (or internal register) bound with this widget needs to display "Unit", or not.

- Range: User can set up the range for the selected channel (or internal register) bound with this widget.

- Minimum: The minimum value setting of the slider for the bound channel (or internal register).
- Maximum: The maximum value setting of the slider for the bound channel (or internal register).
- Step: The moving distance of the round point of the slider for the bound channel (or internal register).

Following is an example for the Value Output (Slider) in the Dashboard.



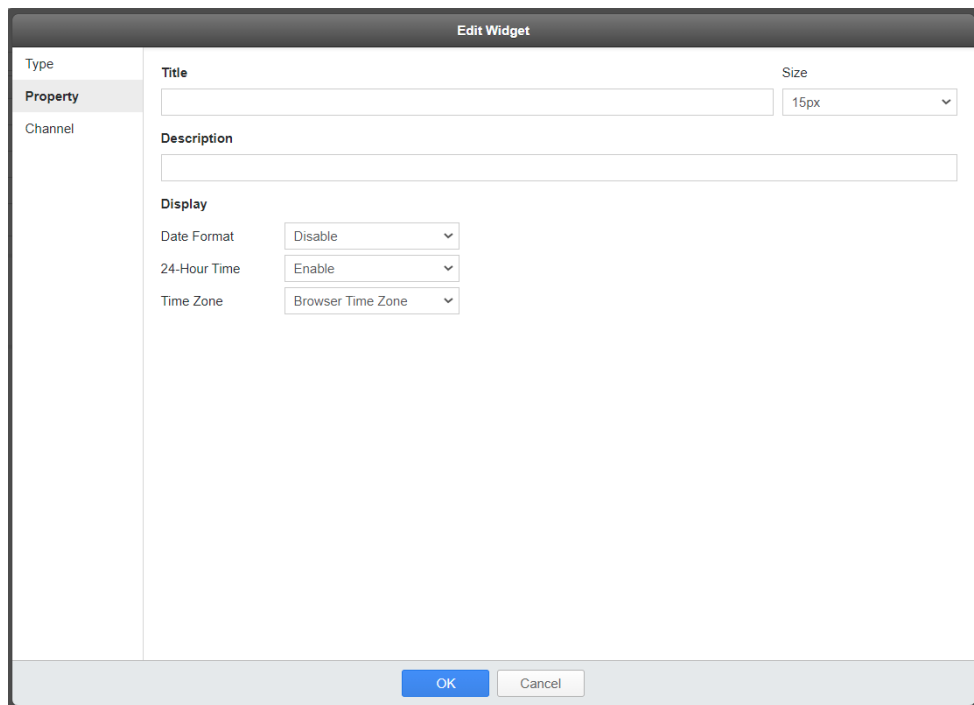
When the Value Output (Slider) widget is enabled, if user wants to change the output value of the widget, he can directly move the widget's round point icon ○ with the mouse to change the output value (or click the value below the widget 's round point icon ○ and change the output value through Virtual keypad). When the setting is completed, the command will be transmitted to WISE/PMC/PMD through IoTstar, and WISE/PMC/PMD will execute the corresponding actions to change the value of the DO/AO channel of the I/O module or the value of the WISE/PMC/PMD Internal Register.

3.10 Time Clock

The Time Clock is used to display the system time of the web Browser.



Following is the description of the parameter of Time Clock.



The screenshot shows the 'Edit Widget' dialog box. On the left, there is a sidebar with 'Type', 'Property', and 'Channel' sections. The 'Property' section is selected. The main area contains the following fields:

- Title:** A text input field with a 'Size' dropdown menu set to '15px'.
- Description:** A large text area for a brief description.
- Display:** Three dropdown menus:
 - Date Format:** Set to 'Disable'.
 - 24-Hour Time:** Set to 'Enable'.
 - Time Zone:** Set to 'Browser Time Zone'.

At the bottom, there are 'OK' and 'Cancel' buttons.

Figure 3-12: Parameter setting of Time Clock

Basic parameter

- **Title:** For user to define the name of the Widget and its size.
- **Description:** This field provides a space for the user to make a brief description of this Widget.

Display parameter

- **Date Format:** For user to set the display format of the date. There are 9 options for selection. If user selects "Disable", the Widget will not show the date.
- **24-Hour Time:** For user to define whether to use the "24-hour clock" format to show the time information, or not.
- **Time Zone:** For user to set the Time Zone.

Following is the example of Time Clock.



09:11:01 AM
25-01-2021

09:11:39 AM
25-Jan-21

3.11 Countdown Timer

The Countdown Timer is used to display the countdown from the target time user set to the system time of the web Browser. Following is the



description of the parameter of Countdown Timer.

The screenshot shows the 'Edit Widget' dialog box for the Countdown Timer. The dialog is titled 'Edit Widget' and has a sidebar on the left with 'Type', 'Property', and 'Channel' sections. The main area contains the following fields:

- Title:** A text input field.
- Size:** A dropdown menu set to '15px'.
- Description:** A text input field.
- End Time:** A section containing two fields:
 - Date:** A date picker set to '2021/02/08'.
 - Time:** A time picker set to '上午 10:03'.

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Figure 3-13: Parameter setting of Countdown Timer

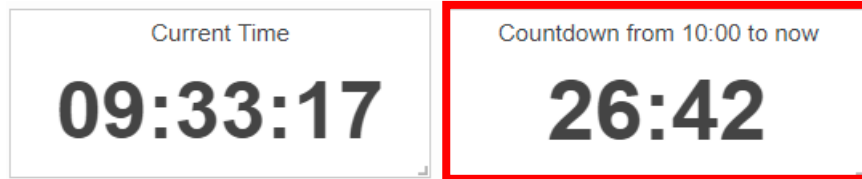
Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

"End Time" parameter

- Date: For user to set the target date.
- Time: For user to set the target time.

Following is the example of Countdown Timer.



3.12 Value Label Overlay

The Value Label Overlay Widget allows user to import image file, and add the value of I/O channels (power data) or Internal Register at the top of the image. In addition, it also provides the Heatmap function. Following is the

description of the parameter of Value Label Overlay Widget.

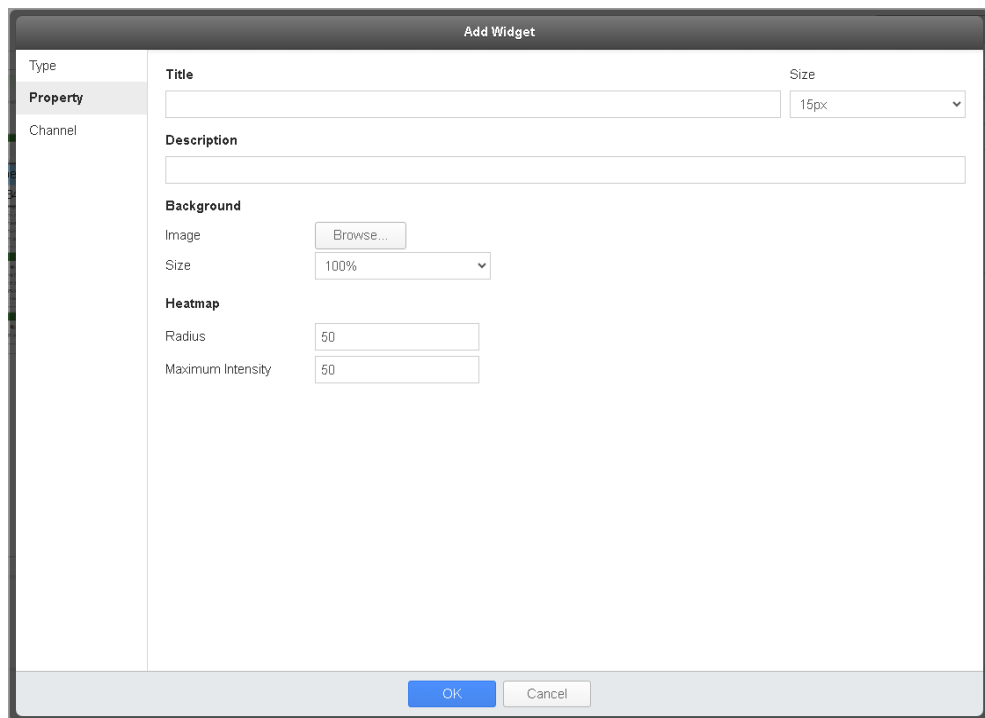


Figure 3-14: Parameter setting of Value Label Overlay Widget

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Background parameter


- Image: For user to set the image file that the Widget needs to import.
- Size: For user to set the display size of the image file in the "Preview" area.

Heatmap parameter

- Radius: For user to set the influence radius of the Heatmap function.
- Maximum Intensity: For user to set the maximum intensity of the Heatmap function.

Value Label parameter

User can click the "Channel" button of the Value Label Overlay widget to enter the "Edit Widget" page of the widget and then click the "Setting" button on the right of the I/O channels (power data) or Internal Register (power data) to enter the "Channel setting" page of the selected channel to complete the parameters setting (or click the setting button in the Property

preview interface of Value Label ).

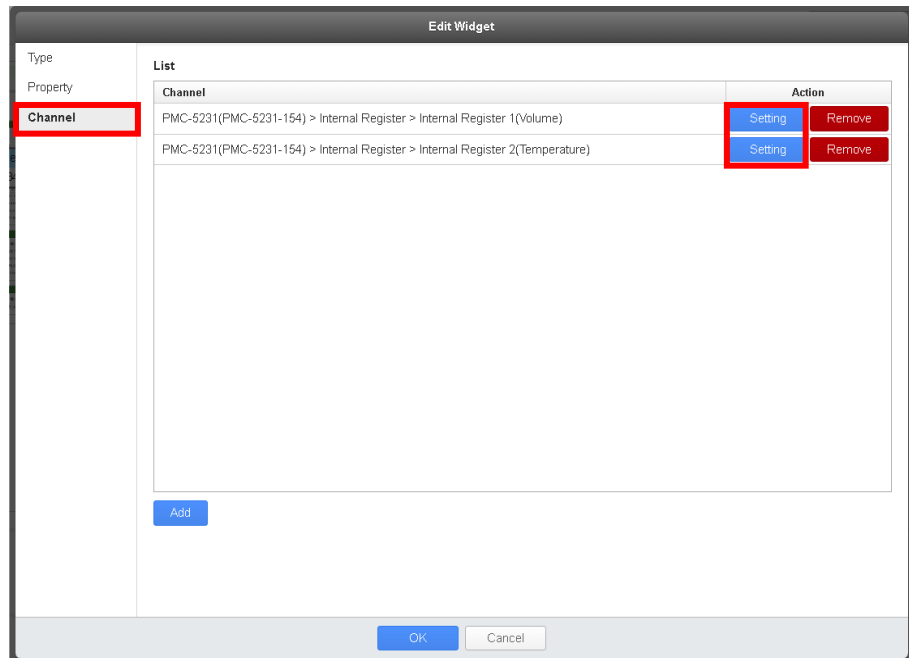
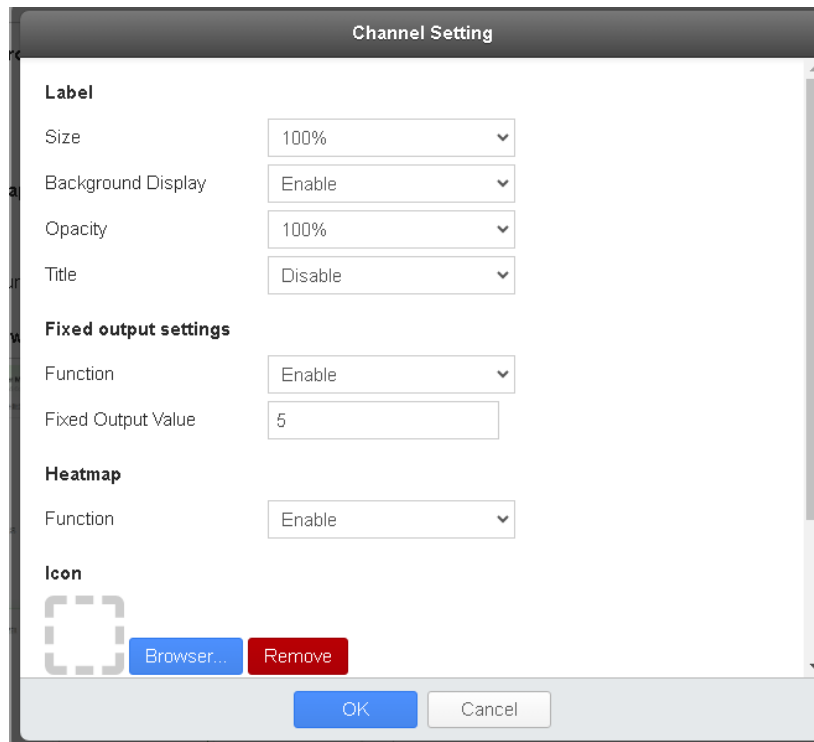


Figure 3-15: Channel setting of Value Label Overlay Widget



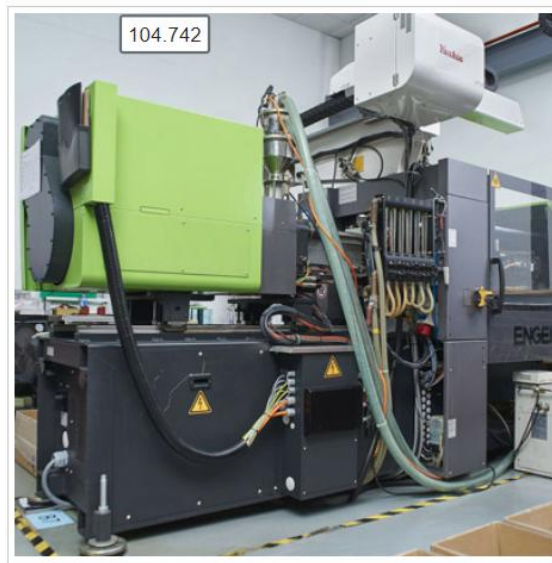
- **Label**

- **Size:** For user to set the display size of the image file in the "Preview" area.
- **Background display:** For user to set up whether to display the border and background of Value Label on the image, or not.
- **Opacity:** For user to set up the opacity of the Value Label on the image. There are 11 options: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100% for selection.
- **Title:** For user to set up whether to display the title of Value Label on the image, or not.

Following is the example of "Opacity is 50%" and "enable Title shown".



Following is the example of "Opacity is 100%" and "disable Title shown".



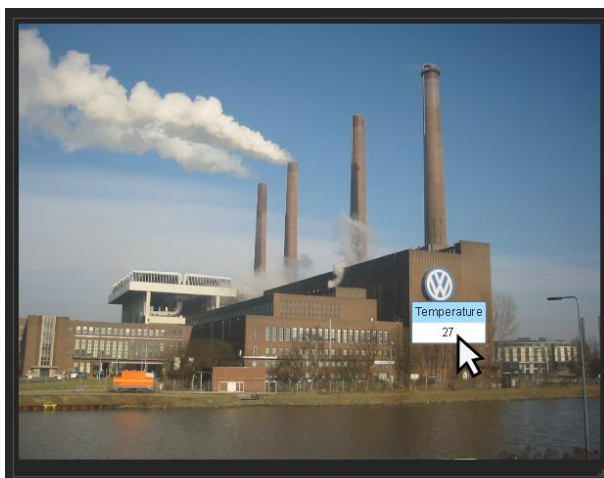
Following is the example of "Disable" Background display".



● **Fixed Output settings**

- **Function:** For user to assign whether to enable the “Fixed output” function, or not. User can select "Enable" and click the Value Label of the selected channel to directly assign the fixed output value to this channel. If user select "Disable" and click the Value Label of the selected channel, the virtual keypad will be shown to help user to assign the desired output value to the channel.
- **Fixed Output Value:** When the “Function” be enabled, user can click the Value Label of the selected channel to directly assign the Fixed output value to this channel;

Following is the display effect of the Value Label Overlay widget on the Dashboard page.



When the Value Label Overlay widget is enabled, if user wants to change the output value of the widget, he can directly click the widget's value label. When the setting is completed, the command will be transmitted to WISE/PMC/PMD through IoTstar, and WISE/PMC/PMD will execute the corresponding actions to change the value of the DO/AO channel of the I/O module or the value of the WISE/PMC/PMD Internal Register.

- **Heatmap parameter**

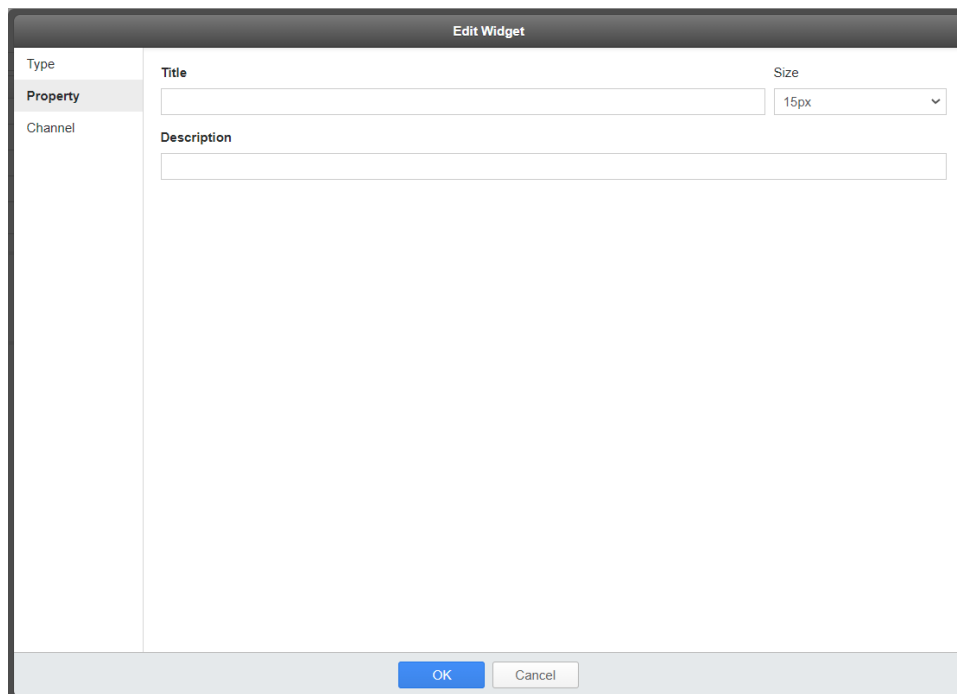
- **Function:** For user to set whether to enable the Heatmap function, or not.

Following is an example of the Heatmap function for the CO2 concentration of the office.



3.13 Video Event List

The Video Event List allows user to browse and review the video record files uploaded to IoTstar from the WISE controller (with ICP DAS iCAM IP Camera). Following is the description of the parameter of Video Event



The screenshot shows the 'Edit Widget' dialog box for a Video Event List widget. The dialog has a title bar 'Edit Widget' and a sidebar with 'Type', 'Property', and 'Channel'. The main area has a 'Title' field, a 'Size' dropdown set to '15px', and a 'Description' text area. 'OK' and 'Cancel' buttons are at the bottom.

Figure 3-16: Parameter setting of Video Event List

Basic parameter

- **Title:** For user to define the name of the Widget and its size.
- **Description:** This field provides a space for the user to make a brief description of this Widget.

Following is an example of Video Event List. This widget will list each video record files uploaded by WISE to IoTstar according to the date and time. User can directly click on the video file in the list, then the system will play the video record file.

時間	裝置	訊息
09:02:26	WISE-5231(WISE-5231)	[規則 2] forward test
09:01:28	WISE-5231(WISE-5231)	[規則 1] forward test
09:01:07	WISE-5231(WISE-5231)	[規則 2] forward test
09:00:14	WISE-5231(WISE-5231)	[規則 2] forward test
08:56:15	WISE-5231(WISE-5231)	[規則 2] forward test
07:53:18	WISE-5231(WISE-5231)	[規則 2] forward test
07:53:04	WISE-5231(WISE-5231)	[規則 1] forward test

3.14 Alarm Event List

The Alarm Event List allows user to browse and review the Alarm Events sent to IoTstar from WISE/PMC.PMD controllers. Following is the

description of the parameter of Alarm Event List.



Alarm Event List

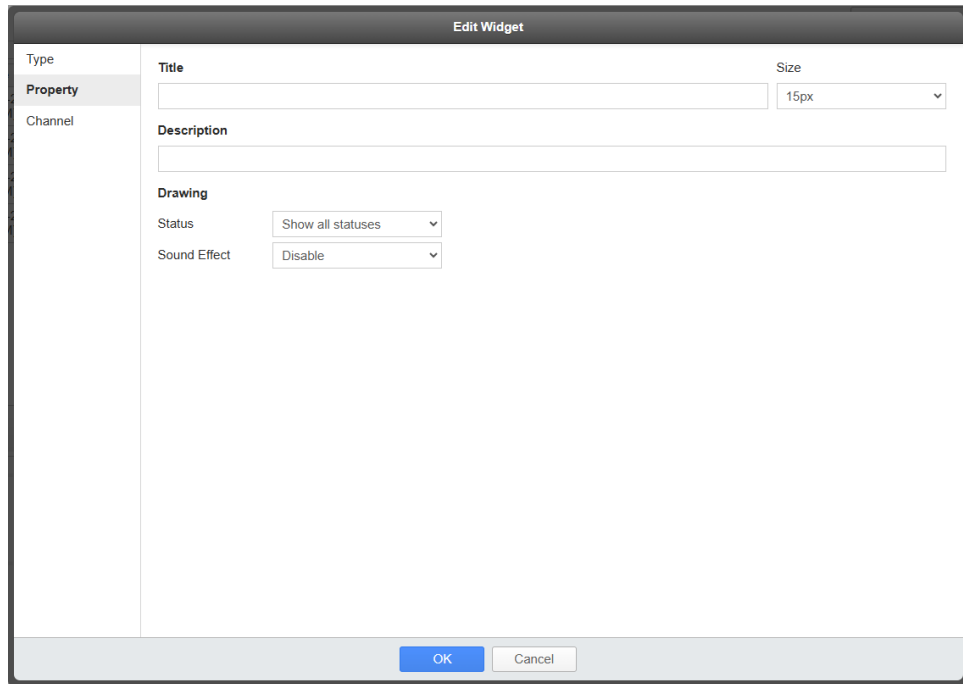



Figure 3-17: Parameter setting of Alarm Event List

Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Drawing parameter

- Status: Allows users to set the display style of the alarm event. When "Show all statuses" is selected, all status changes of the alarm event will be displayed in the list. When "Show only the latest status" is selected, only the latest status of the alarm event will be displayed.
- Sound Effect: Allows user to set whether or not to play sound effect to notify user when there is a new alarm.

Following is an example of the Alarm Event List. This widget will list the alarm events uploaded to IoTstar from WISE/PMC/PMD controllers by date and time. Users can click directly on the alarm event in the list to change its 'Severity' and 'Note'. In addition, by clicking on the  icon,

user can filter the WISE/PMC/PMD controller's alarm events to be displayed.

Time	Device	Alarm	Status	Message
17:50:18	WISE-2246M(WISE-2246M)	Device Temperature	Very High	The temperature is over 100 degrees.
17:50:17	WISE-2246M(WISE-2246M)	Device Temperature	High	The temperature is over 60 degrees.
17:50:15	WISE-2246M(WISE-2246M)	Chiller Unit Temperature	Very High	The temperature is over 100 degrees.
17:50:12	WISE-2246M(WISE-2246M)	Chiller Unit Temperature	High	The temperature is over 60 degrees.

< 2024 S M T W T F S >
Dec 8 9 10 11 **12** 13 14

3.15 Rich Content

The Rich Content Widget provides the WYSIWYG (What You See Is What You Get) editor for user. It allows user to edit the content that the Widget needs to display by himself (For example: import HTML code, import text, import Webpage, import image file, import video file, etc.). Following is



the description of the parameter of Rich Content Widget.

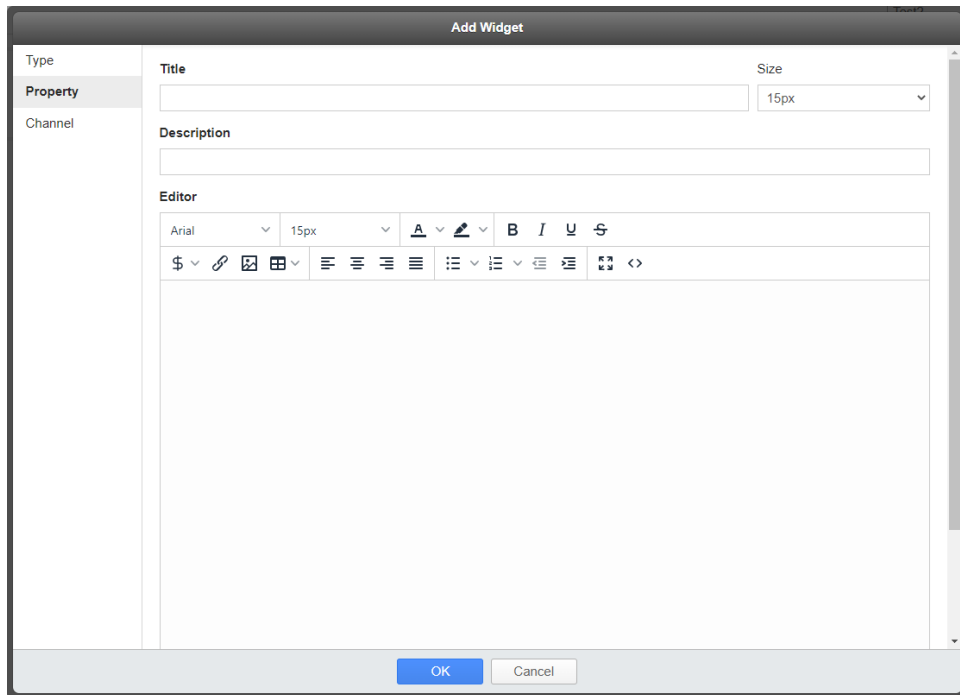




Figure 3-18: Parameter setting of Rich Content Widget

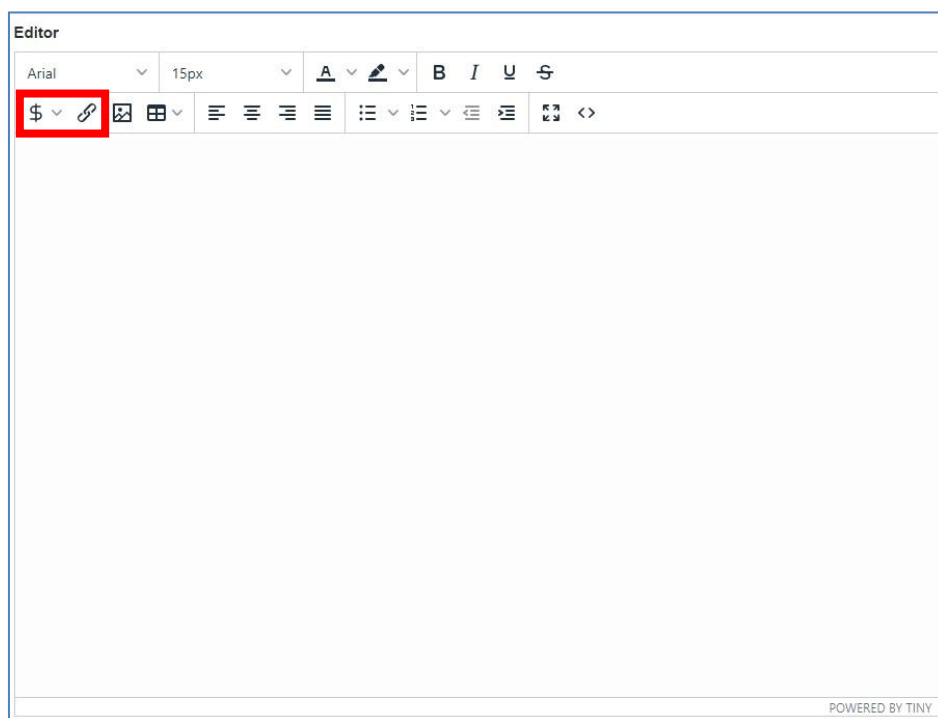
Basic parameter

- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Editor


- Provide the WYSIWYG (What You See Is What You Get) editor for user to edit the content of the Widget. In addition, through the "channel data"  function which WYSIWYG editor provide, user can insert the selected I/O channel (or power data) for the dynamic real-time value display of I/O channel data (or power data) in the currently edited content. The WYSIWYG editor also provides "hyperlink"  function which allows user to directly click on the item to switch the Dashboard pages.

Please Note: The editor is powered by Tiny.




Following is an example for the Rich Content Widget, user can edit the content of the Widget by import HTML code, text, Webpage, image file and video file, etc.

電力介紹



台灣
17:17:31
2020/08/17






PMC-5231

關於泓格電力監控系統

近年來由於地球資源的日益稀少，全球各國及各行各業掀起一股節能減碳的風潮，希望可避免地球資源的浪費以保護地球的永續發展。在此節能減碳的趨勢下，電力監控即是一個重要的項目，而透過電力監控所節省下的成本對企業及個人而言也是最顯著的。為了可以更有效的運用能源，減少資源消耗並兼顧環保節能，泓格科技提供全新的節能解決方案 PMS (Power Monitoring and Management Solution)。泓格科技電力監控解決方案 (PMS) 包含了：現場前端的智能電錶、PMU/PMD 電錶集中器與後端管理用的資料匯整軟體，泓格科技不僅提供客戶硬體設備，更是提供完整的解決方案，讓使用者可以輕鬆透過手機及電腦得知其用電資訊，管理人員也可正確快速的安裝系統。在整個系統的架設過程中，管理員不必進行繁瑣的程式撰寫，僅需透過網頁的軟體設定操作，即可儲存記錄監控設備的電力使用資料，進而了解其用電狀況，有效的達成節能減碳的目標。初期小規模階段，客戶可以僅使用智能電錶與電錶集中器，輕鬆架設簡單的採集監控系統；規模擴充後，透過後端軟體的導入，可以採用積木堆疊的架構，逐一整合擴充，系統彈性度高，可分階段實施，適合不同的需求。

Phase A	Phase B	Phase C
105.564	105.565	105.562



3.16 Map

User can display the map information to the Dashboard through the Map Widget. Following is the description of the parameter of Map Widget.



Figure 3-19: Parameter setting of Map Widget

Basic parameter

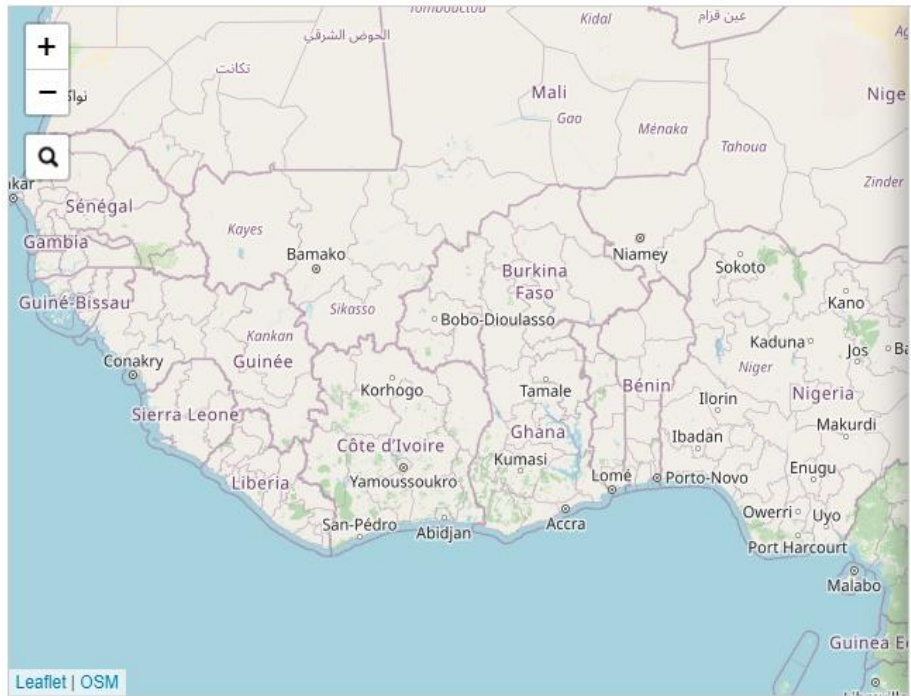
- Title: For user to define the name of the Widget and its size.
- Description: This field provides a space for the user to make a brief description of this Widget.

Marker parameter

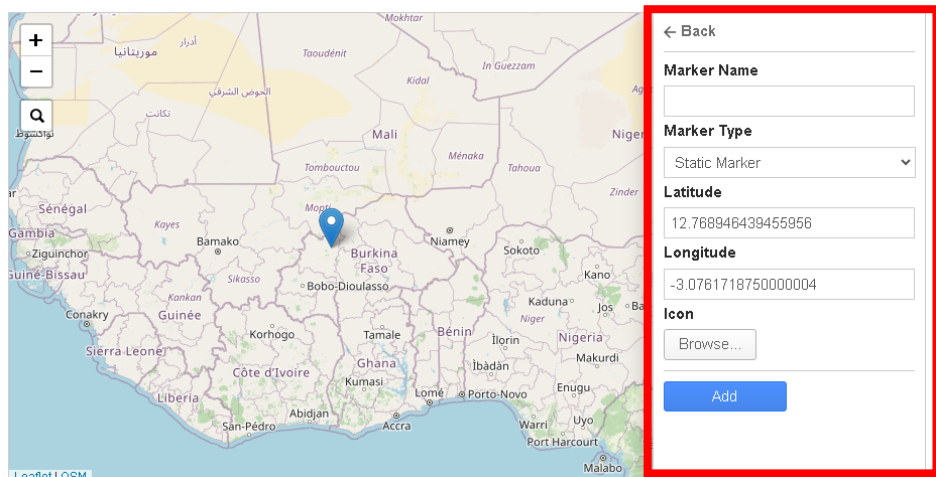
The Map widget provides two marker as "Static Marker" and "Dynamic Marker" for selection. The "Static Marker" is mainly used for the marker with fixed latitude and longitude value. About "Dynamic Marker", it can be assigned new latitude and longitude values to change its location dynamically. For marker setting, please refer to the following steps.

Marker Type: Static Marker

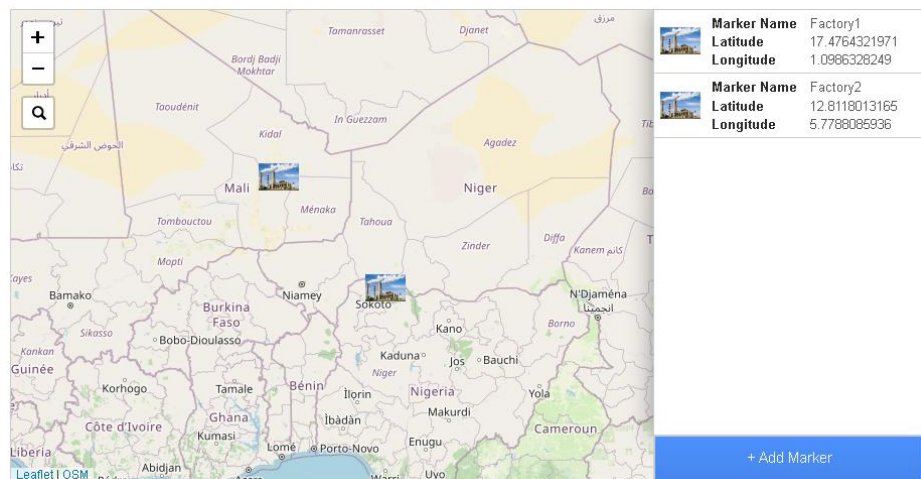
- i. User can move the mouse to the position of the map which need to be marked.



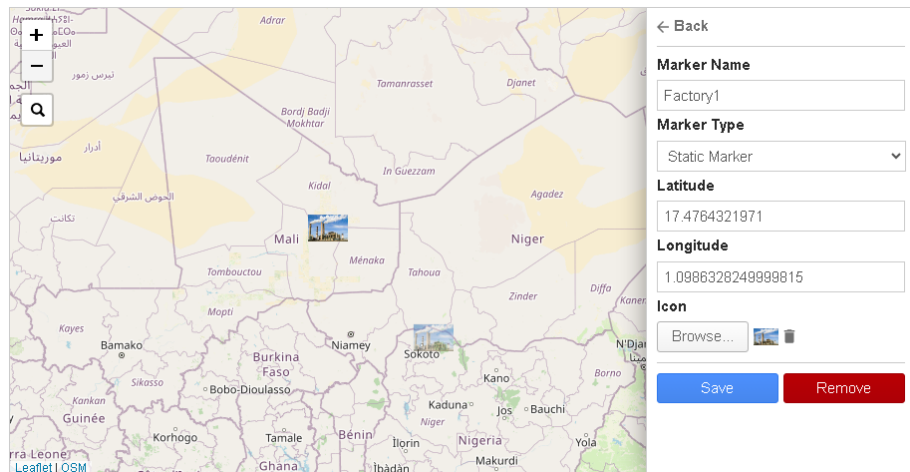
- ii. After confirming the position which need to be marked, click the left button of the mouse on the position or click the "Add Maker" button, then the Marker parameter window will be shown (The default "Marker Type" setting is "Static Marker"). If user wants to adjust the position of the marker, he can directly drag the marker to the new position or enter the new longitude and latitude values to change the maker's position. Following is the description of the parameters of the Marker parameter window.






- **Marker Name:** Set the name of the Marker.
 - **Marker Type:** Set the Marker as "Static Marker" or "Dynamic Marker".
 - **Latitude:** The system will display the latitude of the Marker, and the user can adjust the value by changing the latitude of the Marker directly (Google Maps format).
 - **Longitude:** The system will display the longitude of the Marker, and the user can adjust the value by changing the longitude of the Marker directly (Google Maps format).
 - **Icon:** Import the Icon file as the Icon of the Marker.
- iii. After complete the setting, please press "Add" button. The Marker will be shown in the map, and there is also the list of Marker for reference.



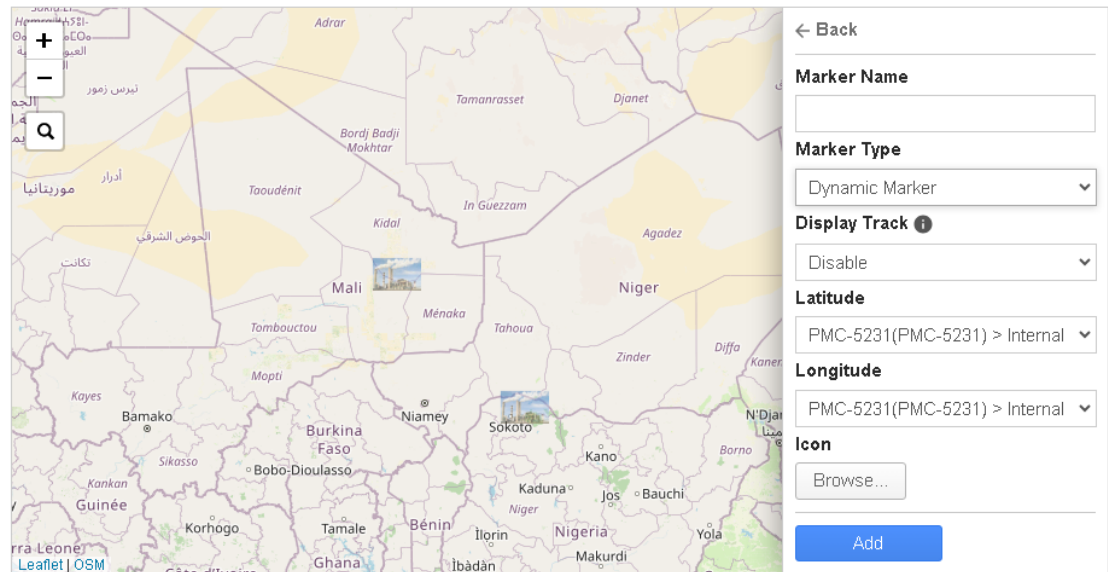
- iv. If user wants to modify the settings of the Marker, he can directly click on the Marker on the map (or on the list), and the Marker parameter window will be shown for user to modify its setting.



- v. After complete the setting of the Marker parameters, click the  button to save the new settings. If need, user can click the  button to ignore the new setting. To delete the Marker, please click the  button.

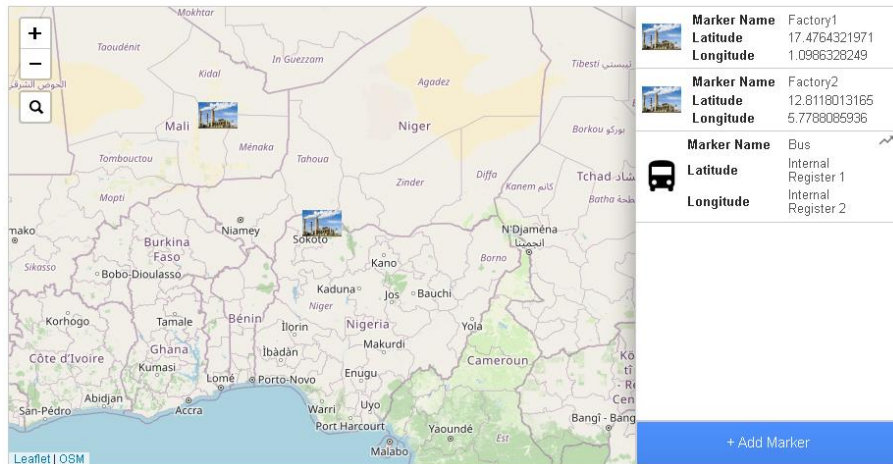
Marker Type: Dynamic Marker

- i. After confirming the position which need to be marked, click the left button of the mouse on the position or click the "Add Maker" button, the Marker parameter window will be shown (The default "Marker Type " setting is "Static Marker"), then select the "Dynamic Mark" in the "Mark Type" field. Following is the description of the parameter of the Marker parameter window.



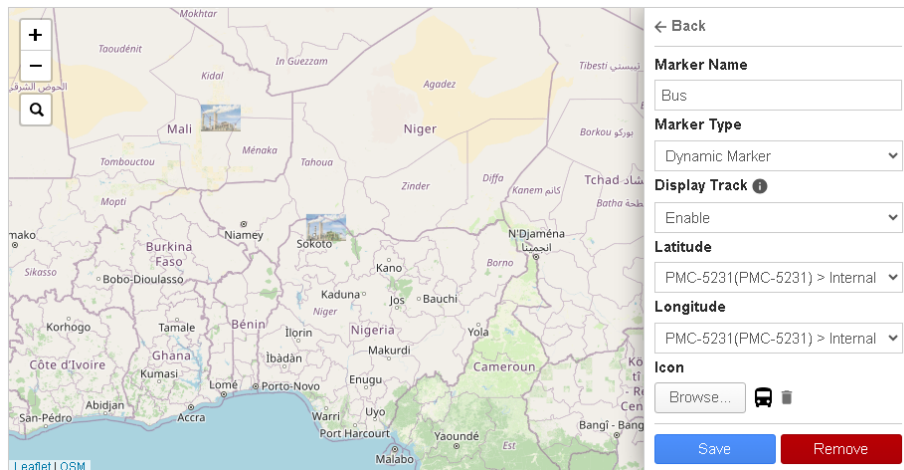
- **Marker Name:** Set the name of the Marker.
- **Marker Type:** Set the Marker as "Static Marker" or "Dynamic Marker".
- **Display Track:** If "Dynamic Marker" is selected in the "Marker Type" field, the "Display Track" field will be shown and provide two options as "Enable" and "Disable" for selection. If "Enable" is selected, the system will display the movement track of the "Dynamic Marker". **Please Note: About the retention of the movement track values, it is based on the setting of the "Dashboard Settings - Data Retention" field (Assign the time period to keep the most recent movement track value during the assigned time period.)**
- **Latitude:** Assign the data source for the marker's latitude value (Google Maps format).
- **Longitude:** Assign the data source for the marker's longitude value (Google Maps format).
User can assign it from the I/O channel of sensor which WISE/PMC/PMD connect or the Internal Registers of WISE/PMC/PMD.
- **Icon:** Import the Icon file as the Icon of the Marker. User can assign it from the I/O channel of sensor which WISE/PMC/PMD connect or the Internal Registers of WISE/PMC/PMD.

- ii. After complete the setting, please press "Add" button, and the marker will be shown in the marker list.

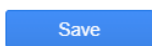


Please note: Because the data source of dynamic marker's longitude and latitude values is from the I/O channel of sensor which WISE/PMC/PMD connect or the Internal Registers of WISE/PMC/PMD, so the markers will not be shown in the map during the setting phase.

- iii. If user wants to modify the settings of the Marker, he can directly click on the Marker on the list, and the Marker parameter window for the select maker will be shown for user to modify its setting.



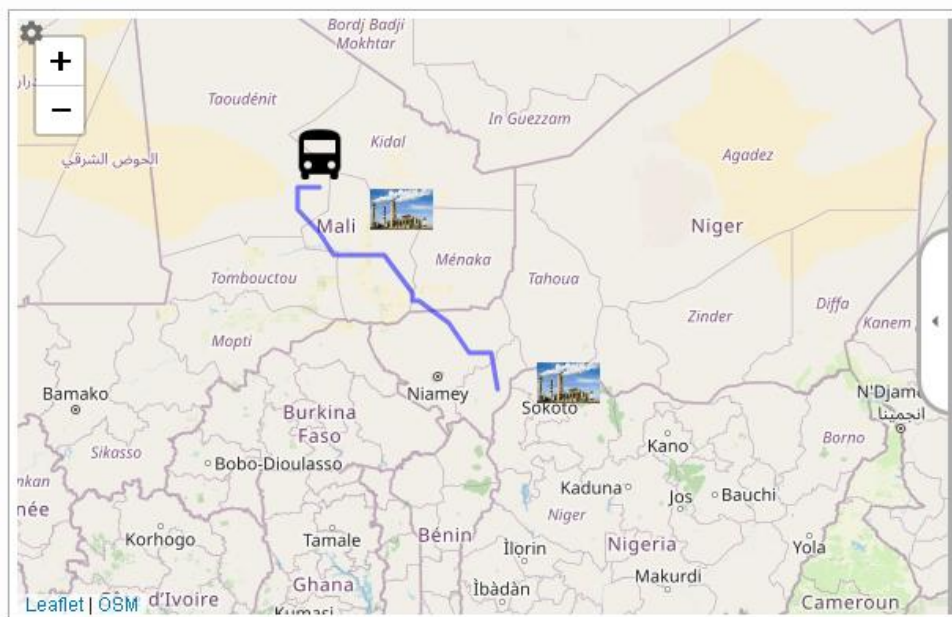
- iv. After complete the setting of the Marker parameters, click the



button to save the new settings. If need, user can click

the **← Back** button to ignore the new setting. To delete the Marker, please click the **Remove** button.

Following is an example for the Map Widget in the Dashboard.



When click the "Expand" button on the right side of the Map widget, it will display the list of Markers related to the Map widget. User can directly click the marker in the list, and the Map widget will automatically display the corresponding map content in such a way that the selected marker shown in the center of the Map. This function will be helpful to quickly verify the location of the selected marker in the map.

