PLCGROUP
ACTIONABLE INTELLIGENCE

PD-01.05.Quick Start Guide for AQue Lite Software.

Rev(A)

PLC Group PWD Islamabad, Pakistan

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Version	Date	Name	Title	Signature
A	05 Nov, 2024	Usman Fazil	Manager	

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Introduction:

AQue Lite is an advanced software solution designed for monitoring and managing various parameters associated with hardware systems. The platform provides users with real-time data and insights, enabling effective decision-making and system optimization. This guide will walk you through the software's key features and functionalities, ensuring that you can leverage **AQue Lite** to its full potential.

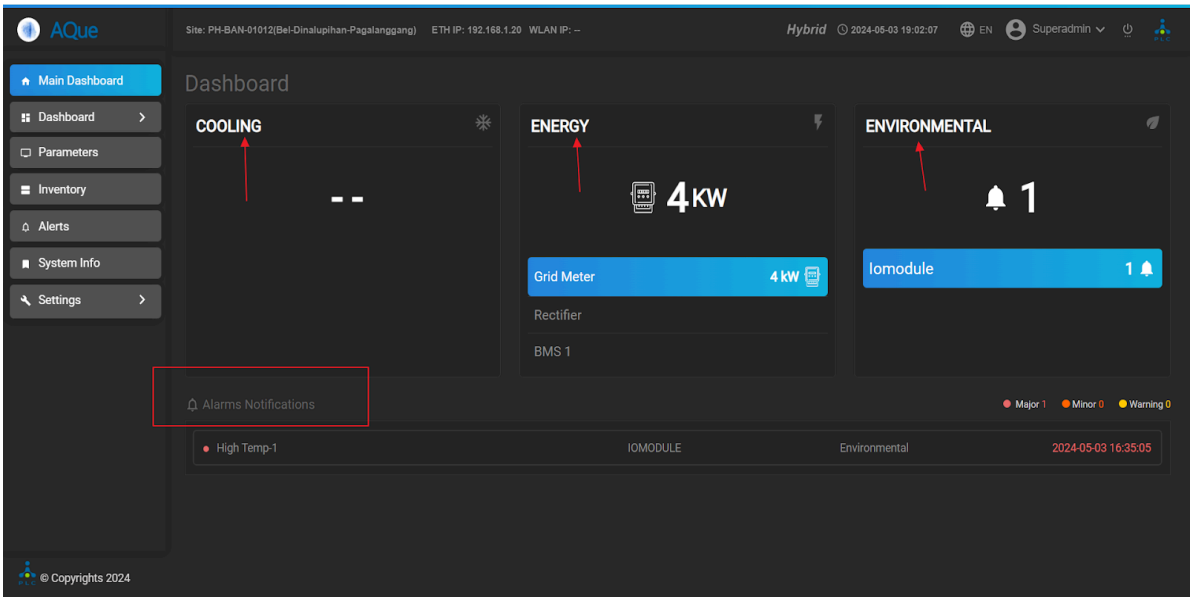
Landing Page Overview:

Upon logging into Aque Lite, you will arrive at the **Landing Page**, which serves as your main dashboard. This interface is designed for easy navigation and quick access to critical information.

Sections Overview

The Landing Page consists of three primary sections, each focusing on essential parameters of the system:

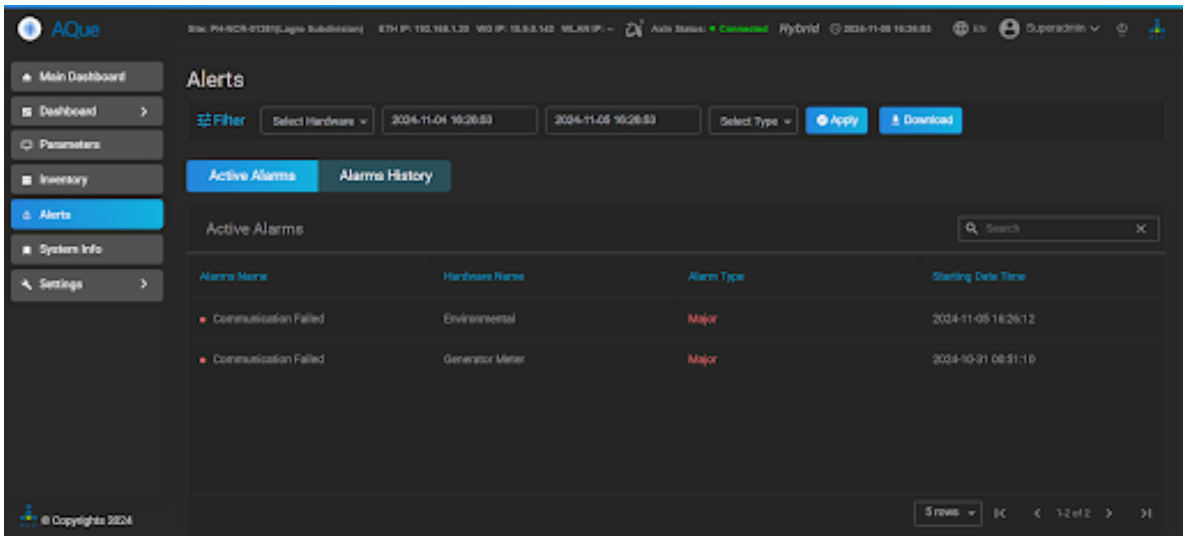
- **Cooling**: This section allows you to monitor cooling-related parameters, including air conditioning units and other cooling systems. Here, you can assess the performance and efficiency of your cooling solutions.
- **Energy**: In this section, you can track energy consumption and generation. Sub-parameters include:
    - **DC Plant**: Monitor the performance and output of your direct current (DC) power systems.
    - **Grid Meter**: Keep an eye on energy usage and import/export levels from the grid.
- **Environmental**: This section encompasses parameters that monitor environmental conditions affecting system performance, such as temperature and humidity levels.



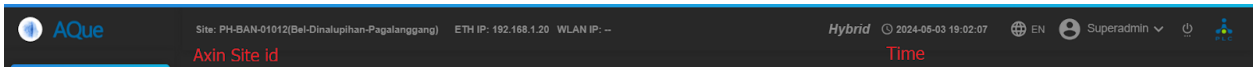
Alarms Tile

Located below the main sections, the **Alarms Tile** provides a quick view of current system alerts. Each alarm entry includes:

- **Alarm Name**: A brief description indicating the nature of the alarm (e.g., "Cooling Unit Malfunction").
- **Hardware Association**: Specifies which hardware component the alarm is linked to, making it easier to identify and address issues.
- **Occurrence Time**: The exact time at which the alarm was triggered, allowing for timely response and resolution.



At the top of the Landing Page, you will see the **Site ID** and the **current date**, providing context for the data displayed.

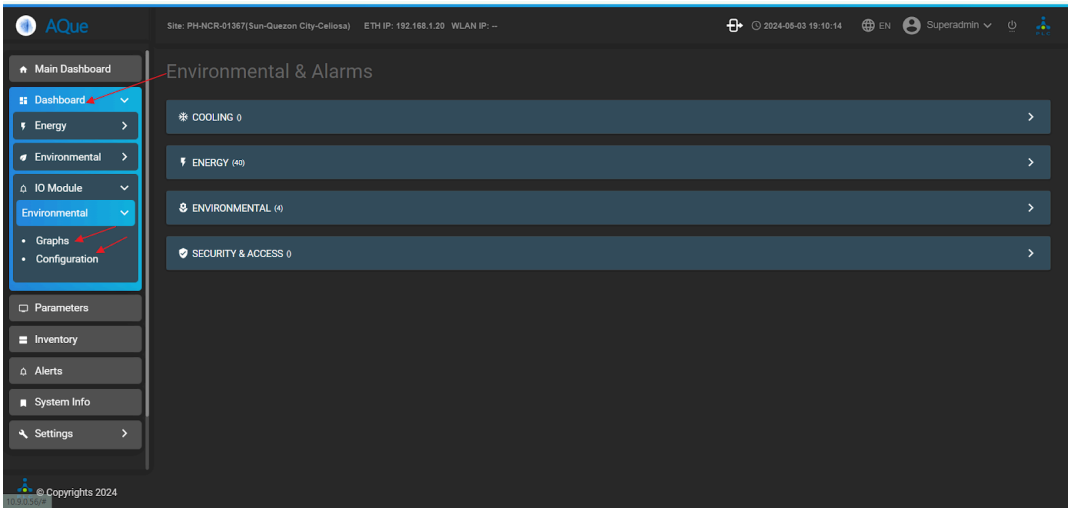


Dashboard Features

The **Dashboard** is a central hub that provides an overview of all parameters and allows for detailed analysis.

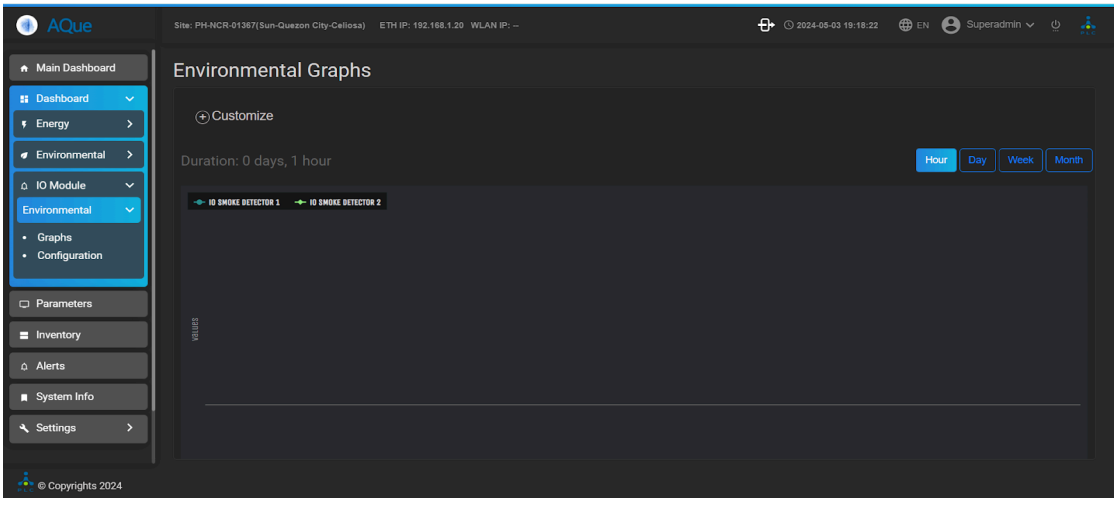
Main Parameters

The Dashboard prominently displays the main parameters relevant to your system, along with their respective sub-parameters. Users can easily navigate between different parameters to monitor system performance comprehensively.



Graphs

The **Graphs** section enables users to visualize data trends for selected parameters. Users can generate line charts, bar graphs, or other visual representations of data over specified time frames. This feature is essential for identifying patterns and making informed decisions based on historical data.

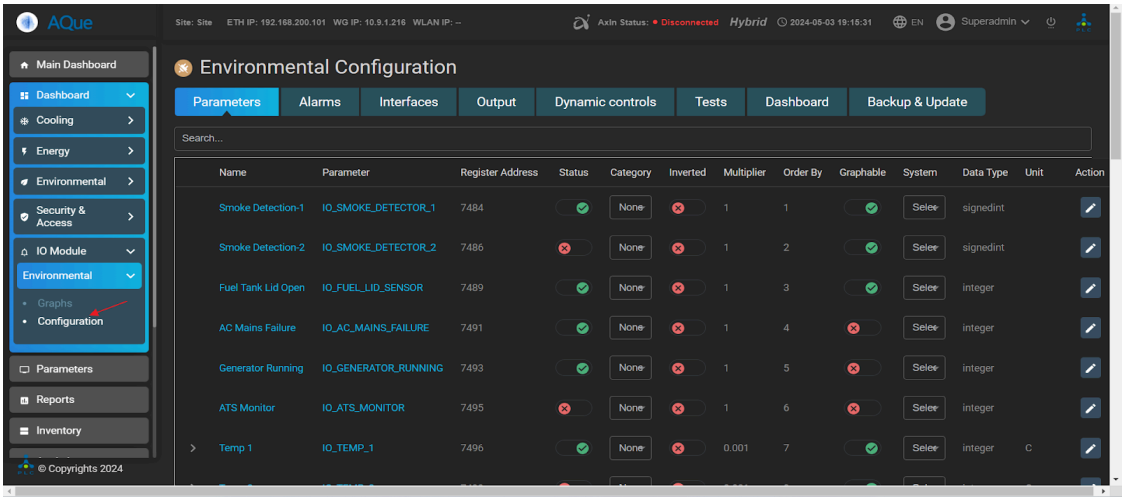


Configurations

Within the **Configurations** section, users can access detailed settings for each parameter, including:

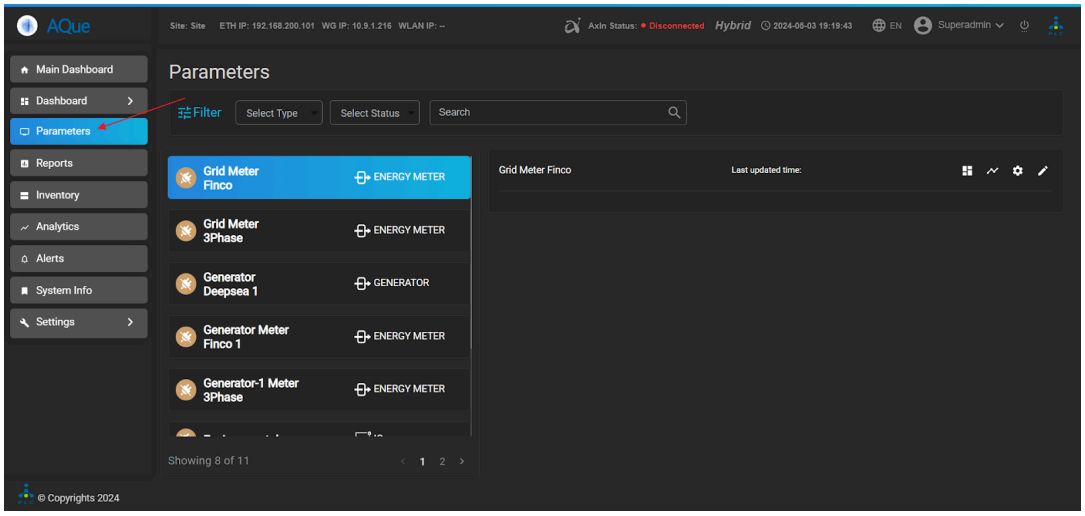
- **Register Values**: Displays the specific numerical values associated with hardware settings, allowing for precise adjustments and configurations.
- **Multipliers**: These are scaling factors that adjust the parameter values for better interpretation. Understanding how to use multipliers effectively is crucial for accurate data analysis.

- **Alarms**: A list of all alarms associated with the parameter, along with their statuses, enabling users to manage alerts effectively.
- **Other Configuration Settings**: Additional options related to the parameter's operation, including calibration settings and performance thresholds.



Parameters Section

The **Parameters** section is dedicated to displaying all hardware components and their corresponding parameter values.



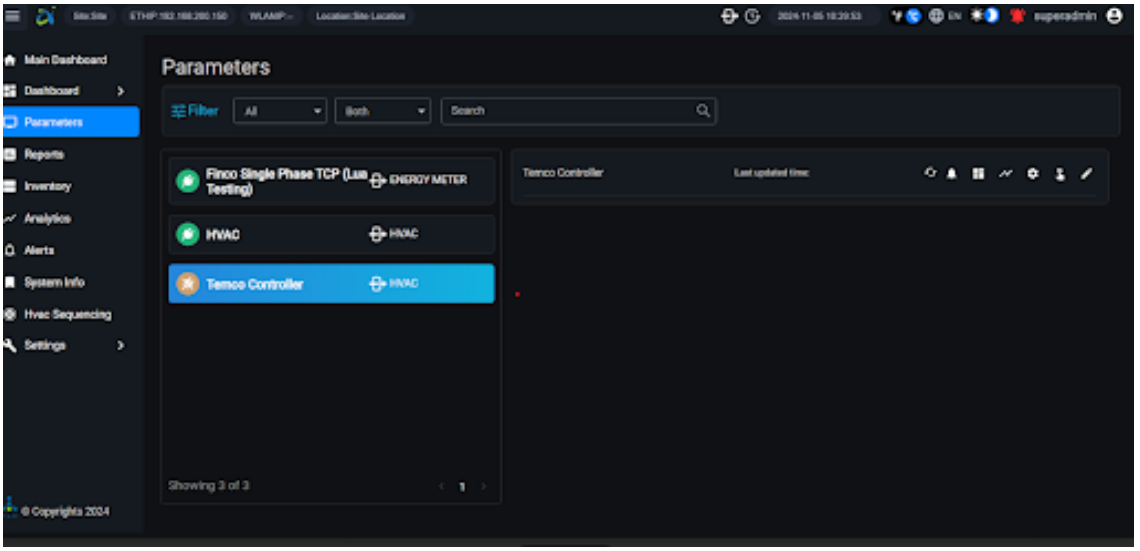
Hardware Overview

In this section, users can view a comprehensive list of hardware devices currently integrated into the system. Each hardware component is displayed along with its current parameter readings on the right panel. This feature allows for quick assessments of system performance and health.

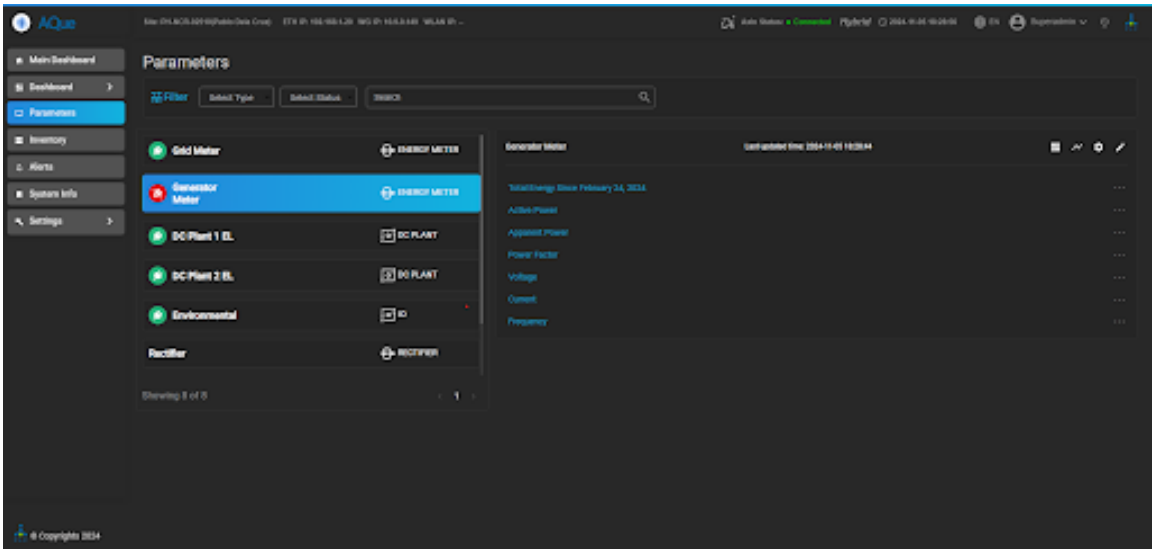
Status Indicators

For certain hardware, such as the **Grid Meter**, color-coded status indicators provide immediate feedback on the operational state of the hardware:

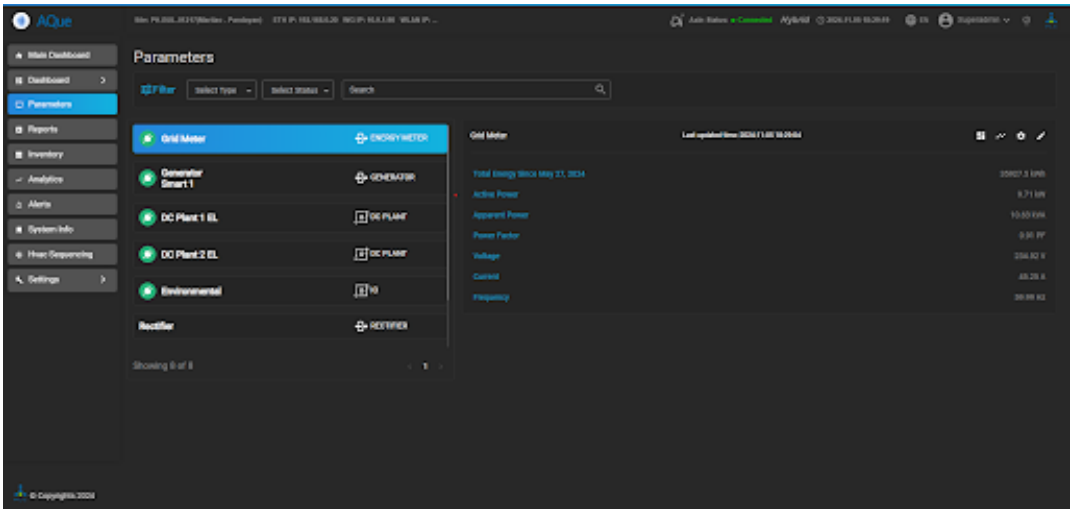
- **Brown**: Indicates that the service is operational, and the system is actively fetching data from the device.



- **Red**: Signifies that the hardware is disconnected, which may require troubleshooting or immediate attention.



- **Green**: Confirms that the hardware is successfully connected and functioning correctly.



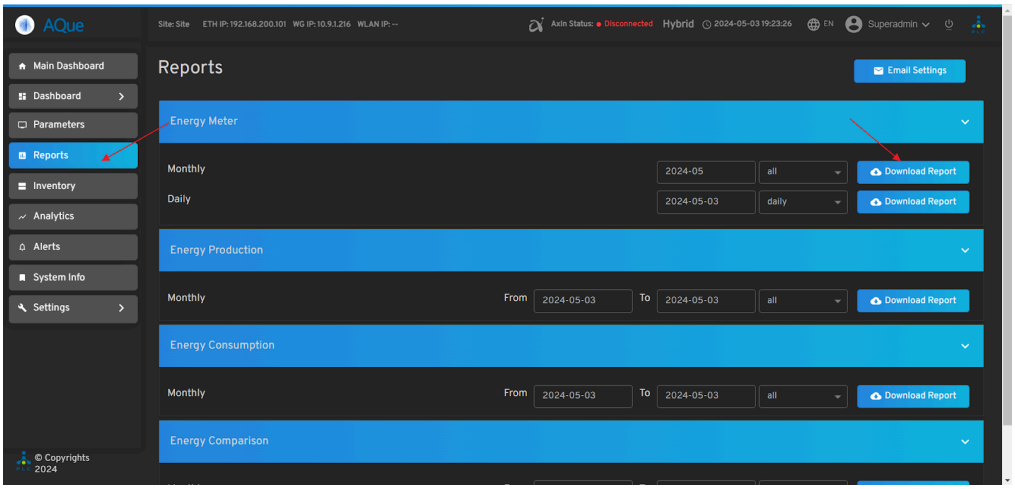
These visual cues help users quickly assess the status of their hardware without needing to delve into more detailed diagnostics.

Reports Generation

The **Reports** section allows users to generate comprehensive reports based on various parameters.

Generating Reports

Users can create reports by applying filters for specific time periods, such as monthly or daily. The generated reports provide insights into the performance and status of specific parameters, facilitating informed decision-making. Reports can typically be downloaded in various formats (e.g., PDF, CSV) for ease of sharing and record-keeping.



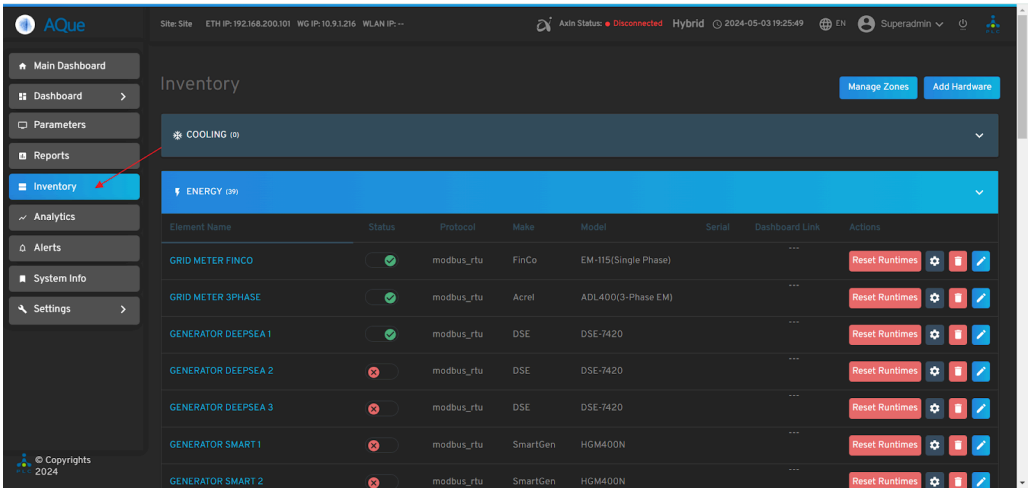
Inventory Management

The **Inventory** section provides an organized view of all hardware components that have been added to the system.

Adding and Deleting Hardware

Users have the ability to manage the inventory by:

- **Adding New Hardware**: This feature allows users to input details about new hardware devices into the system, ensuring that the inventory remains current and comprehensive.
- **Deleting Existing Hardware**: If certain hardware is no longer in use, users can easily remove it from the inventory to maintain an accurate representation of active components.



Effective inventory management is crucial for ensuring that all components are monitored and that users have access to the latest information regarding their systems.

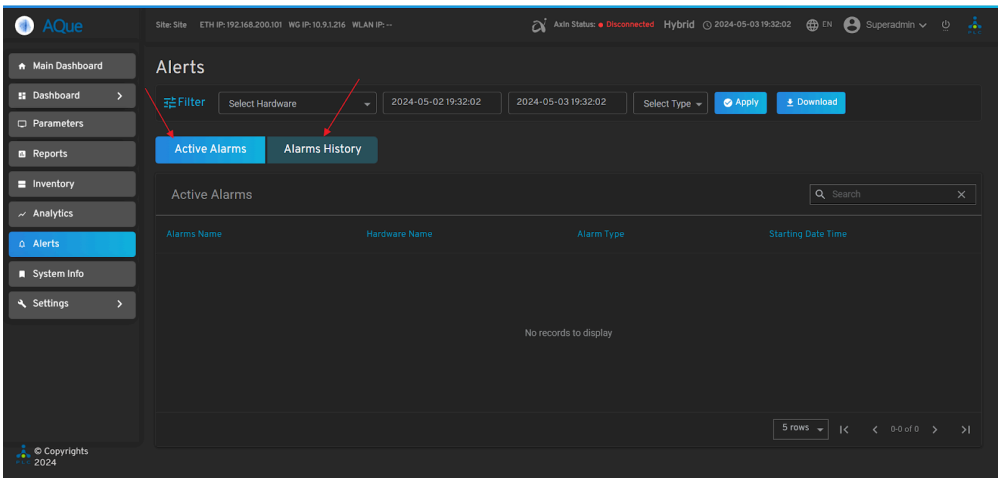
Alerts Section

The **Alerts** section is a critical feature for monitoring system alarms and notifications.

Active and Historic Alarms

In this section, users can view:

- **Active Alarms**: Current alerts that require immediate attention. Users can quickly assess which alarms are active and prioritize responses accordingly.
- **Historic Alarms**: Past alarms that have been resolved or acknowledged. This historical data can provide valuable insights into recurring issues or trends within the system.



Users can apply various date filters to refine their search, making it easier to focus on specific time periods or types of alarms, thereby enhancing the efficiency of monitoring activities.

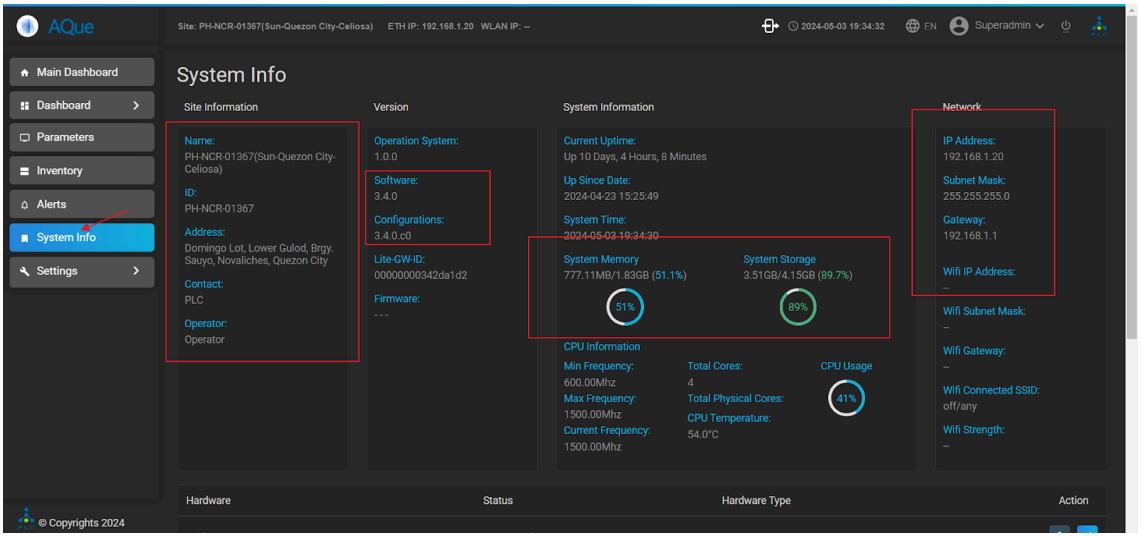
System Information

The **System Info** section provides essential details about the Aque Lite installation and its operational environment.

Site Details

Here, users can view critical information about their system, including:

- **Site Name**: The designated name of the site being monitored.
- **Address**: The physical location of the site.
- **System Version**: Displays the current version of the AQue Lite software, helping users ensure they are using the latest features and improvements.
- **Network Information**: Provides details about the system's network configuration, which can be vital for troubleshooting connectivity issues.



This section serves as a reference point for users to understand their system's environment and ensure optimal performance.

Settings Overview

The **Settings** section allows users to customize various aspects of Aque Lite to meet their operational needs.

General Settings

In the General Settings sub-section, users can configure overall settings that affect the functionality of the software. This may include preferences related to user interface layouts, notification settings, and default parameter views.

Security Settings

Users can manage security protocols to safeguard their systems and data. This may involve setting up user access levels, password policies, and other security measures to protect sensitive information from unauthorized access.

Debug Settings

The Debug section provides options for troubleshooting and maintenance. Users can access logs, diagnostic tools, and other resources that assist in identifying and resolving system issues efficiently.