

edgeRX™ Platform User Guide

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TDK SensEI edgeRX™

Platform User Guide

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Note: This guide covers the platform workflows. Physical installation steps and hardware specifications are intentionally excluded and should be referenced from the respective hardware datasheets and user guides.

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1. Introduction

1.1 About This Guide

TDK SensEI's edgeRX™ end-to-end platform is a complete solution for real-time equipment health monitoring. The edgeRX™ solution leverages edge AI to process data locally at the source for faster, more accurate, and more efficient insights. edgeRX™ is a user-friendly, low-maintenance solution that optimizes the collection, analysis, and management of machine health data. By continuously monitoring the health status of critical assets, edgeRX™ reduces unexpected downtime, optimizes maintenance to improve efficiency and effectiveness, and enables predictive maintenance for users.

This guide provides a comprehensive step-by-step approach to using the edgeRX™ Platform for monitoring machine performance. By leveraging real-time data visualization on the platform, factory operators can proactively address maintenance needs, reducing downtime and operational costs.

1.2 Related Documentation

For hardware setup, installation, and physical device troubleshooting, please refer to the following user manuals:

Document	Model Number	Contents
edgeRX™ Gateway User Manual	SE5100204G-01	Gateway hardware setup, power connection, network configuration, LED indicators, physical troubleshooting
edgeRX™ Lynq Sensor User Manual	SE1111101G-01	Sensor hardware activation, physical installation, battery information, LED indicators, physical troubleshooting

These documents can be obtained from your local TDK SensEI representative.

2. Getting Started

2.1 Logging into Your Account

Follow these steps to log into your account:

2.1.1 First-Time Login (New Users)

1. Open the welcome email received from the tdksensei.com domain.
2. Click the login link to access the edgeRX™ Platform.
3. Create your password during the first login.
4. Complete the MFA setup process (see Section 2.1.2).

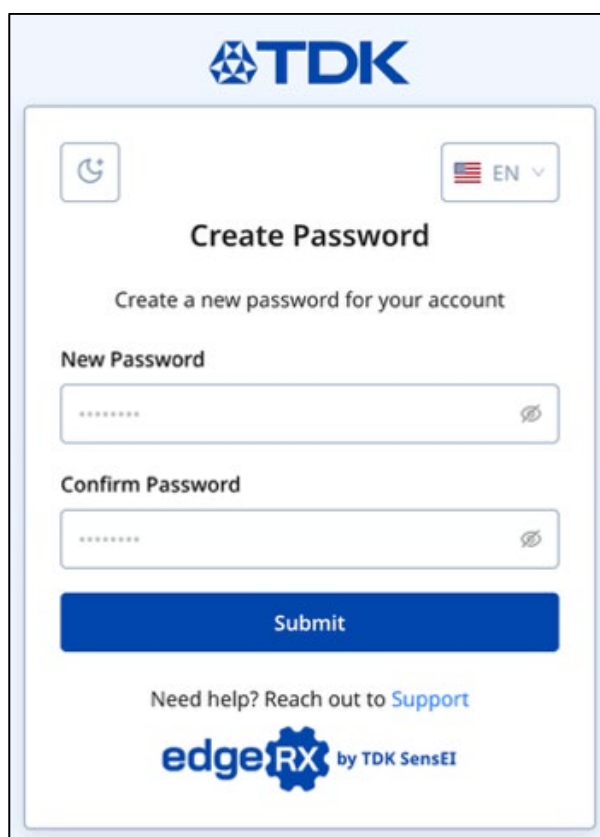


Figure 1: Create Password Page

2.1.2 MFA / Authenticator Setup

Multi-Factor Authentication (MFA) adds an extra layer of security to your account.

1. After entering your credentials, you will be prompted to set up MFA.
2. Download an authenticator app on your mobile device (e.g., Google Authenticator, Microsoft Authenticator).
3. Scan the QR code displayed on screen using your authenticator app.

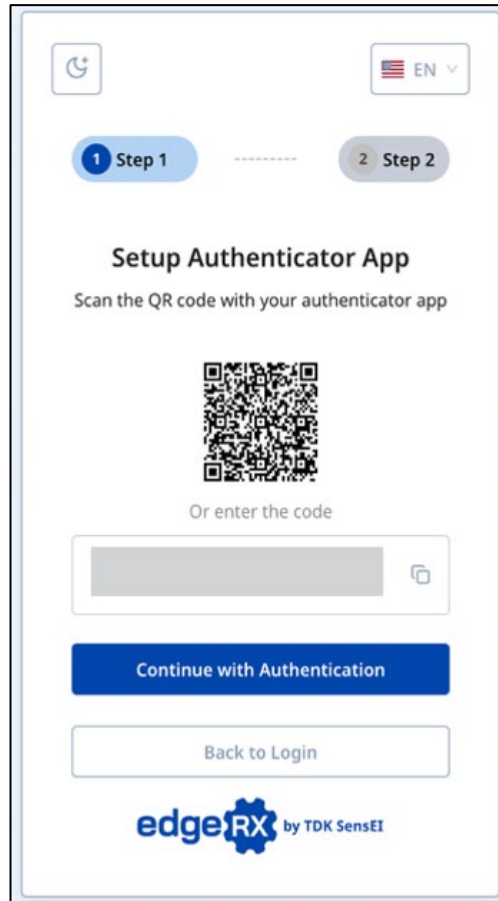


Figure 2: MFA Setup Page

4. Enter the 6-digit verification code generated by your authenticator app.
5. Click "**Verify**" to complete the setup.

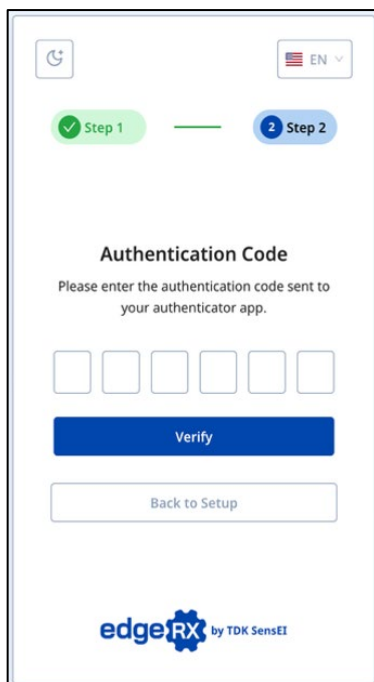


Figure 3: Authentication Code Entry

⚠ **Trust This Device:** You may select the **"Trust This Device"** checkbox to bypass MFA for 30 days on that specific device.

2.1.3 Existing Users

1. Navigate to the edgeRX™ Platform login page.
2. Enter your registered email address and password.
3. Enter the 6-digit code from your authenticator app (if MFA is enabled and device is not trusted).
4. Click **"Login"** to access the Platform.

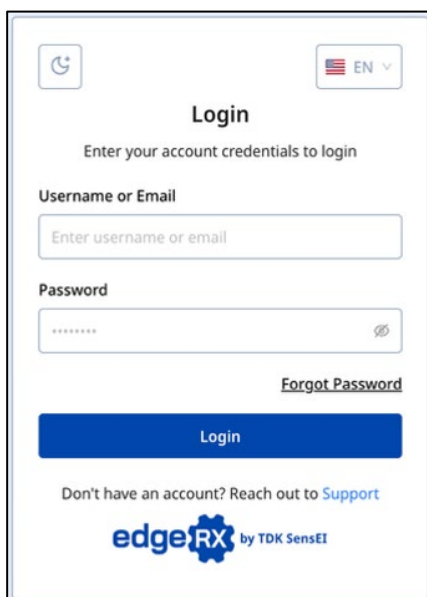


Figure 4: Login Page

2.1.4 Forgot Password

If you have forgotten your password:

The screenshot shows the 'Login' page for edgeRX by TDK SensEI. At the top right, there is a language selector set to 'EN'. Below the title 'Login', the instruction 'Enter your account credentials to login' is displayed. There are two input fields: 'Username or Email' and 'Password'. To the right of the password field is a red-bordered box containing the text 'Forgot Password'. Below the input fields is a blue 'Login' button. At the bottom, there is a link for 'Support' and the edgeRX logo.

Figure 5: Forgot Password Highlighted

1. Click the "**Forgot Password**" link on the login page.
2. Enter your registered email address.
3. Click "**Submit**" to receive a password reset link via email.
4. Open the email and click the reset link.
5. Enter and confirm your new password.
6. Click "**Reset Password**" to complete the process.
7. Return to the login page and sign in with your new credentials.

The screenshot shows the 'Reset Password' page for edgeRX by TDK SensEI. At the top right, there is a language selector set to 'EN'. Below the title 'Reset Password', the instruction 'Create a new password for your account' is displayed. There are two input fields: 'New Password' and 'Confirm Password'. Below the input fields is a blue 'Submit' button. At the bottom, there is a link for 'Support' and the edgeRX logo.

Figure 6: Password Reset Flow

2.1.5 Profile Settings

Users can manage their personal account settings by clicking the user icon located at the bottom-left corner and navigating to "**Profile Settings**".

Profile Settings

All Facility EN

Ekin-admin

 Job Title Department

Temperature Preference
 Celsius (°C) Fahrenheit (°F)

Change Password

Current Password

New Password

Confirm New Password

Cancel Update

If password change is successful, you will be logged out and taken to the login page

Trusted Devices Delete

<input type="checkbox"/>	Device Name	Last Login	Trusted On	Expires On	Actions
<input type="checkbox"/>	Windows - Microsoft Edge	03 Mar 2026, 05:34 PM	03 Mar 2026	02 Apr 2026	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Windows - Microsoft Edge	03 Mar 2026, 12:59 PM	03 Mar 2026	02 Apr 2026	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Windows - Not-A-Brand	26 Feb 2026, 09:34 PM	23 Feb 2026	25 Mar 2026	<input type="checkbox"/> <input type="checkbox"/>

Figure 7: Profile Page

From here, users can:

- **Edit personal profile details** – Update your name and contact information.
- **Change password** – Update your account password.
- **Manage trusted devices** – View and remove devices that have been trusted for MFA bypass.

2.2 Navigating the Platform's Homepage

After logging in, you will be directed to the Platform's Homepage. Here you'll see an overview of real-time information:

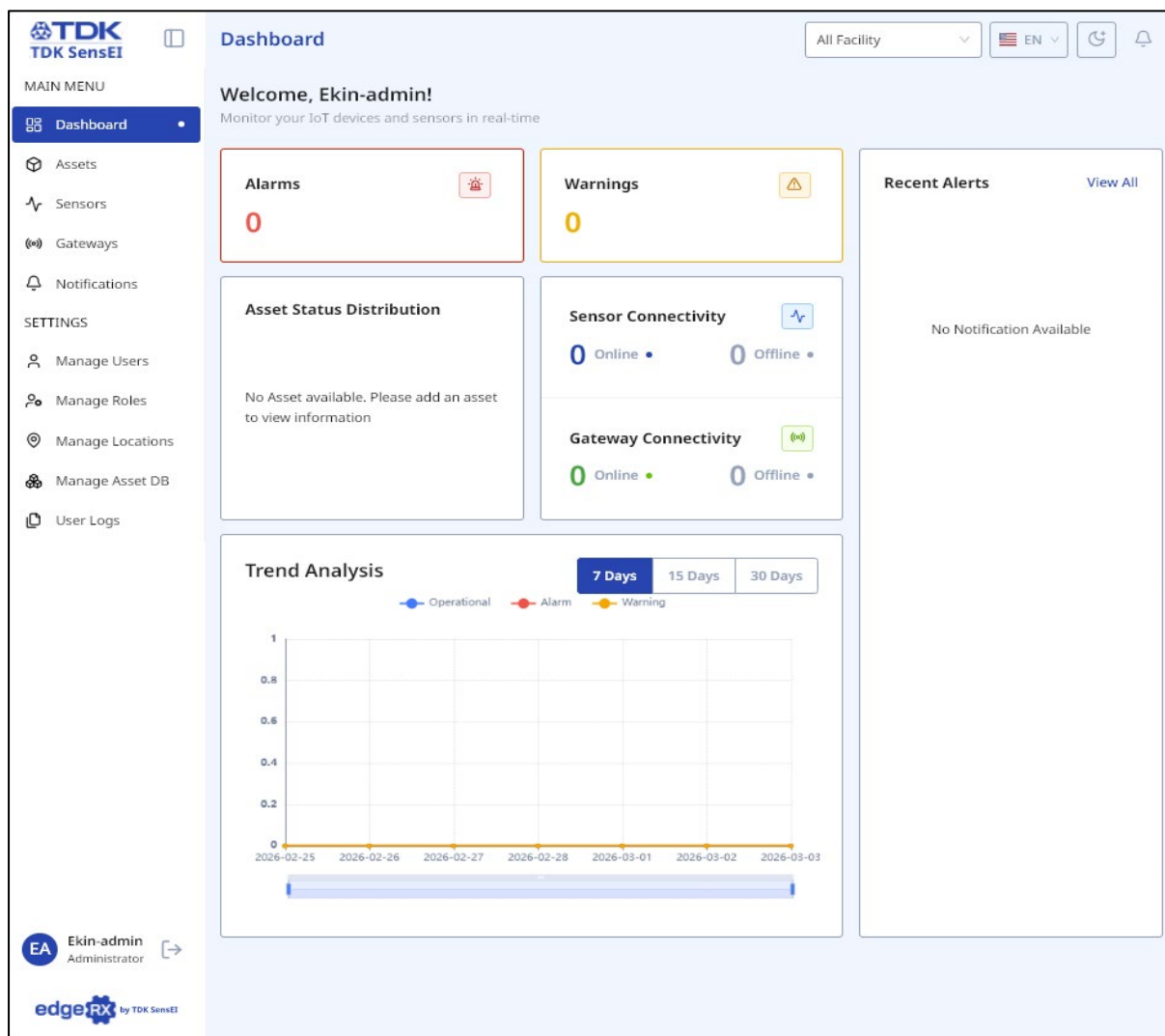


Figure 8: Dashboard Homepage

Widget	Description
Alarms	Active alarms across connected assets
Warnings	Active warnings across connected assets
Sensor Connectivity	Sensor connection health
Gateway Connectivity	Gateway connection health
Trend Analysis Chart	High-level metrics showing asset behaviour over time

2.2.1 Location / Facility Selector

Use the location/facility selector dropdown to switch between different sites or facilities within your organization.

 **Note:** Access to this dropdown is restricted to **Admin** and **Global Executive** users only.

2.2.2 Trend Analysis Chart

The Trend Analysis chart analyses historical trends of notifications using a line chart. Features include:

- Custom date range picker
- Time adjustment slider

2.2.3 Language Selector

The Global Language Selector is located in the top right corner of the dashboard screen. Users can switch between the following languages:

- English (default)
- Japanese
- Simplified Chinese


The selected language persists across all pages of the application.

2.2.4 Theme Toggle

The theme toggle is located in the top right corner of the screen. Users can switch between:

- Light theme
- Dark theme

The selected theme persists across all pages of the application.

 **Troubleshooting:** If any widget appears inactive or blank, confirm that your gateways and sensors are online.

3. Managing Users & Permissions

The Administrator ("Admin") can create separate roles and assign specific permissions based on the organization's requirements. The TDK SensEI team will set up an organization account on the edgeRX™ Platform and grant access to a designated Administrator user.

3.1 Manage Users

Navigate to **Settings > Manage Users** to access user management functions.

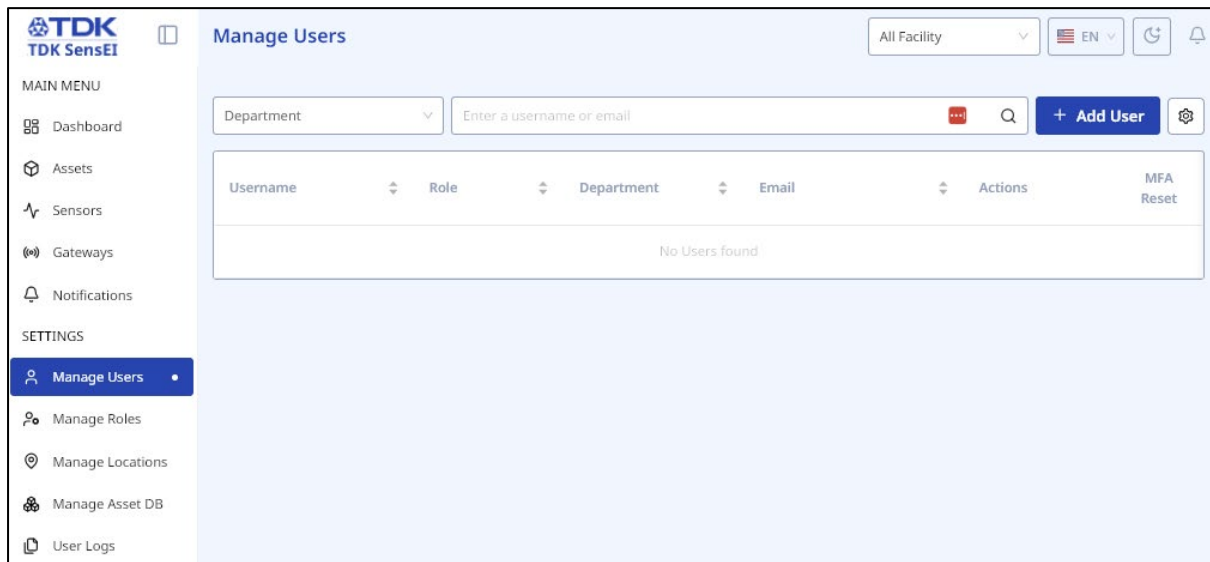


Figure 9: Manage Users

3.1.1 Viewing the User List

The user list displays all users within your organization. You can:

- View all registered users
- Filter users by Department using the dropdown in the top left corner
- Search for users using the search bar by username or email ID
- Adjust the number of rows displayed per page using the "Rows per Page" dropdown

3.1.2 Adding a New User

To add a new user:

1. Click the **"Add"** button on the top right corner.
2. Enter the following details in the modal:

Figure 10: Add User Modal

Field	Description
User Name	Full name of the user
Email	User's email address (used for login)
Role	Select from existing roles dropdown
Location	Select from existing locations dropdown
Department	Select from existing departments dropdown

3. Click **"Add User"** to create the new user account.
4. Click **"Cancel"** to terminate the action without adding the user.

⚠ Note: The new user will receive a welcome email with instructions to set up their password and MFA.

3.1.3 Managing Existing Users

For each user in the list, you can perform the following actions:

Action	Description	When to Use
Edit User Details	Update user information including email address	User changes role, department, or email
Assign Roles	Change the user's role and permissions	User responsibilities change
Resend Welcome Email	Send a new welcome email to inactive users	User hasn't completed initial setup
Reset Password	Force password reset for active users	User forgot password or security concern
Resend Verification Email	Send verification email after email address update	User's email address was updated
Reset MFA	Clear MFA setup for a user	User lost access to authenticator app

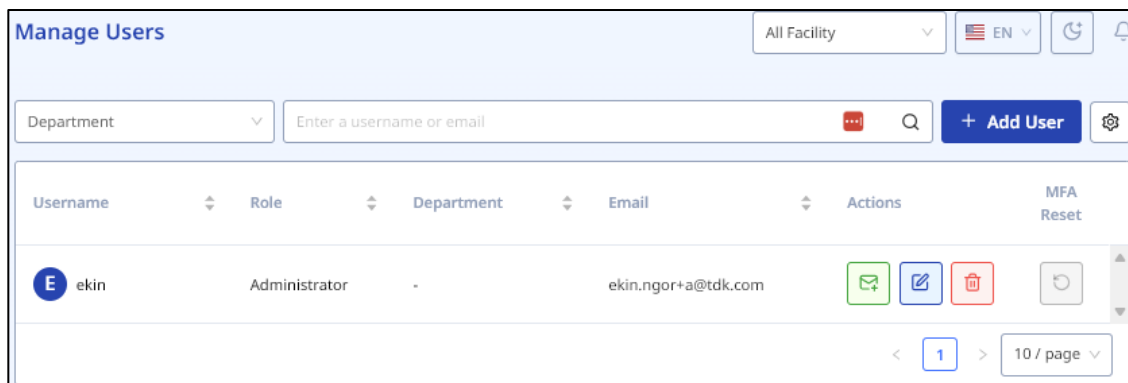


Figure 11: Members List

To perform any of these actions, click the corresponding icon or button in the **Actions** column next to the user's name.

3.2 Manage Roles

Navigate to **Settings > Manage Roles** to create or edit roles and assign module-level access.

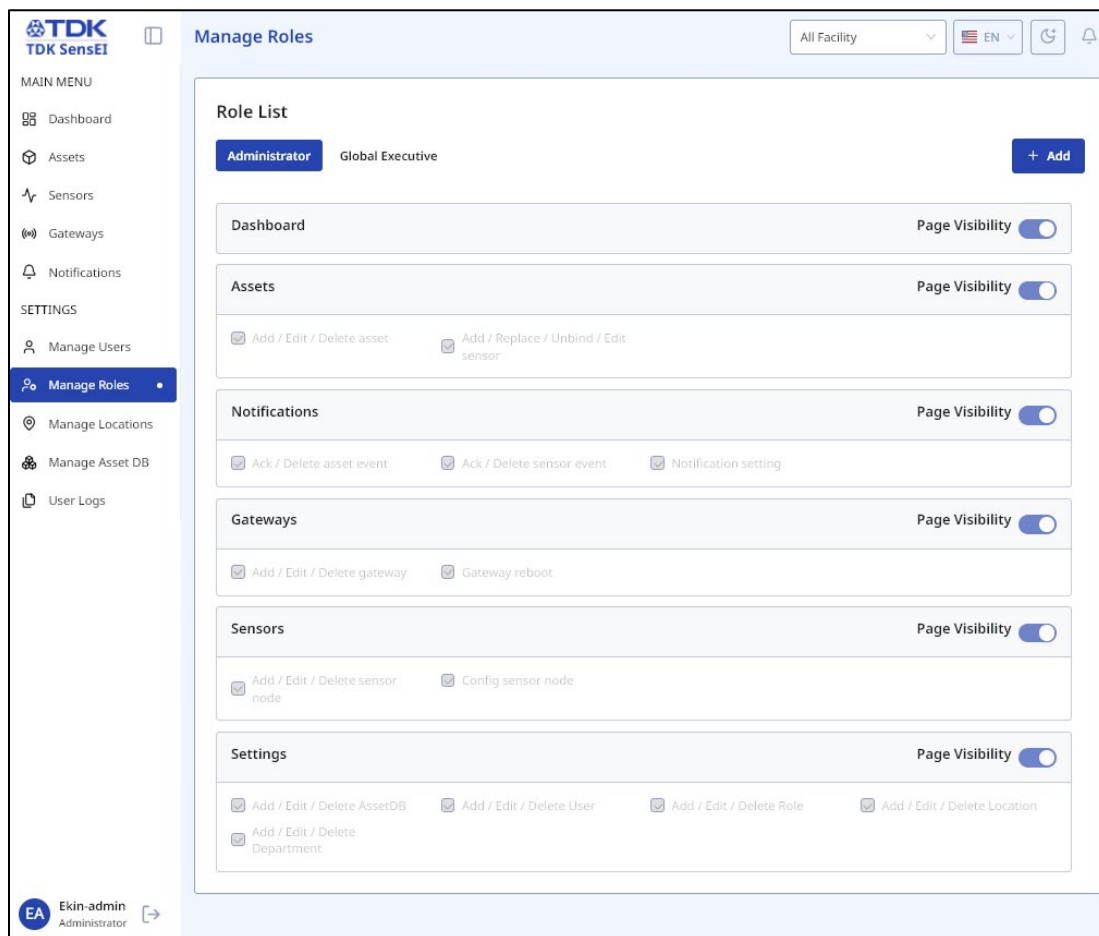


Figure 12: Manage Roles

3.2.1 Adding a New Role

To add a new role:

1. Click the **"Add"** button.
2. Enter the role name in the field.
3. Click **"Create"** to add the new role.
4. Click **"Cancel"** to terminate the action.

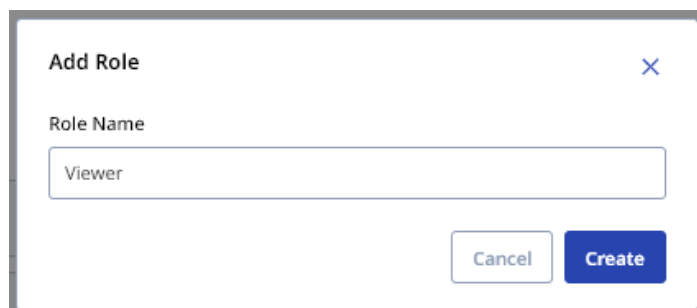


Figure 13: Add Role Viewer

3.2.2 Configuring Role Permissions

Use the toggle buttons and checkboxes to enable or disable permissions for each role:

- Toggle buttons control **module access** (e.g., Sensors, Gateways, Assets, Notifications)
- Checkboxes control **specific actions** within modules (e.g., View, Add, Edit, Delete)

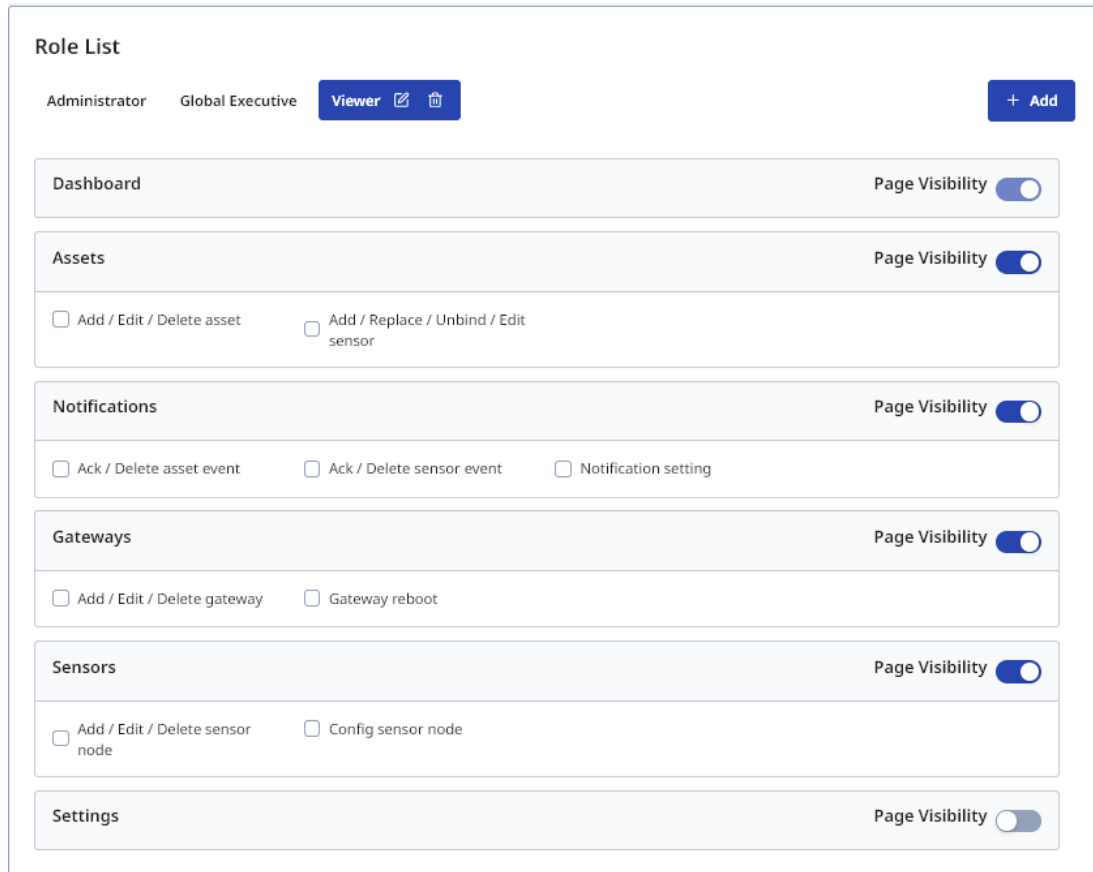


Figure 14: Role Permissions

Click "**Save**" to apply permission changes across all users assigned to that role.

3.3 Global Executive Role

The **Global Executive** role provides special privileges:

- **Read-only access** to every location in the organization
- Ability to **switch between locations** using the location selector
- View all platform data including:
 - Sensors
 - Gateways
 - Notifications
 - Insights
 - Home KPIs

Data displayed is based on the currently selected location.

⚠ Note: Global Executives cannot modify data or settings, only view them.

3.4 Profile Settings

Every user has access to their own account management options via **Profile Settings**. For detailed instructions, see Section 2.1.5.

3.5 Adding a Department

To add a new department:

1. Click the Department dropdown.
2. Enter the department name in the field.
3. Click "+" to create the new department.

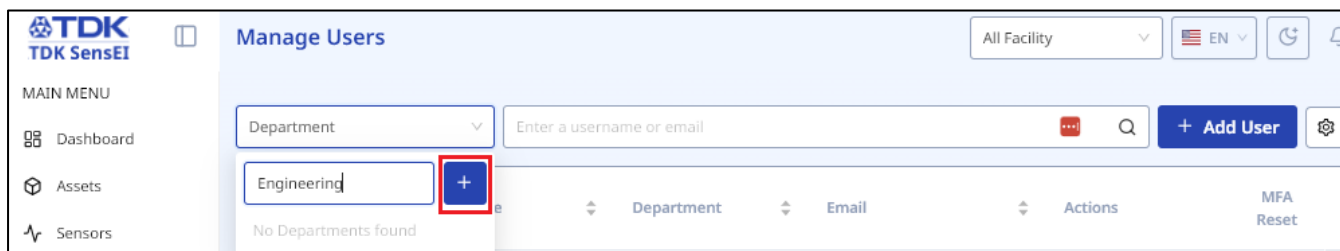


Figure 15: Adding a Department

4. Gateway Management

4.1 Adding a Gateway to the Platform

Note: Before we can add a gateway, we must set up a location, refer to [11.1 Location Hierarchy](#) to set up a location.

Log into the edgeRX™ Platform using your authorized credentials, then navigate to **Gateway Summary** page.

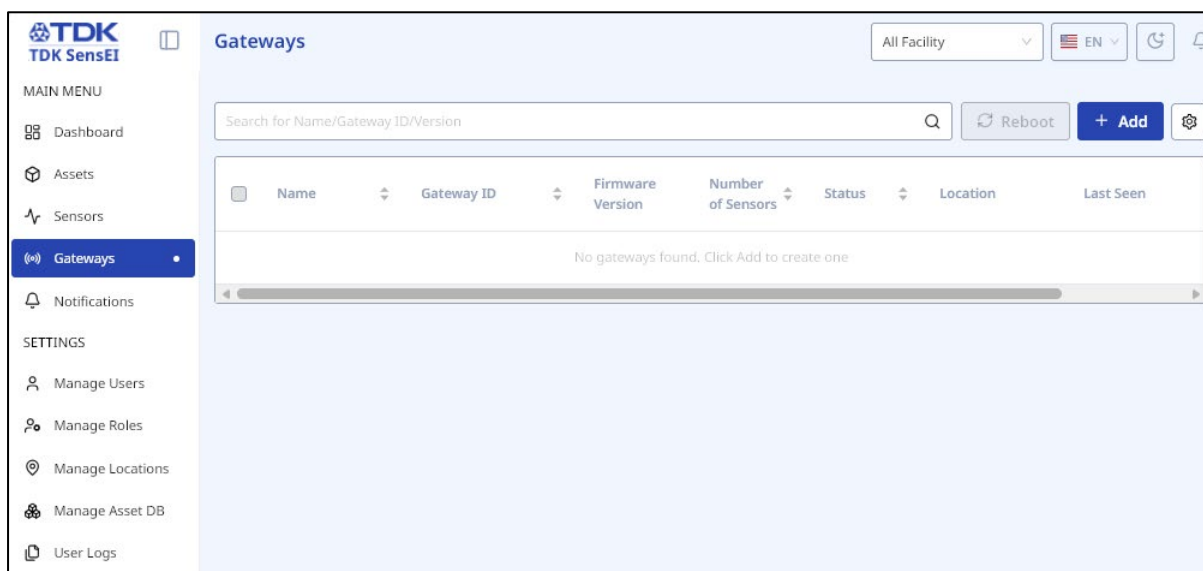


Figure 16: Gateway Summary

Steps to Add a Gateway

1. Navigate to **Gateway > Add Gateway**.

Figure 17: Add Gateway Modal

2. Enter the required details:

Field	Description
Gateway Name	A custom name for identification
Gateway ID	The 12-character Gateway ID (found on the Gateway's box or on the flat-bottom surface of the Gateway)
Location	Select the location of the Gateway on the floorplan

Figure 18: Add Gateway Details

3. Plot the coordinates on the map component.
4. Click "**Save**" to register the Gateway into the system.

The new Gateway will appear in the table and be available for monitoring and management.

⚠ Note: Ensure that your edgeRX™ Gateway is online and connected using the Detail tab. If your edgeRX™ Gateway appears offline, see [Section 12](#) for troubleshooting steps. For physical sensor installation instructions, refer to the **edgeRX™ Gateway User Manual**.

4.2 Managing Gateways

4.2.1 Reboot a Gateway

1. Click the **"Reboot"** button.
2. Click **"Confirm"** to reboot the Gateway.
3. Clicking **"Cancel"** will terminate the reboot action.

⚠ Note: Users can only reboot one Gateway at a time.

4.2.2 Delete a Gateway

1. Click the **"Delete"** icon.
2. Click **"Delete"** to remove the Gateway.
3. Clicking **"Cancel"** will terminate the delete action.

4.2.3 Edit a Gateway

1. Click the **"Edit"** button from the actions column.
2. Update the Gateway ID, Name, and/or Location fields.
3. Click **"Save"** to ensure your changes are saved.
4. Clicking **"Cancel"** will terminate the edit action.

4.3 Gateway Table Features

The table provides a searchable, paginated view of all Gateway devices.

Feature	Description
Search Bar	Locate Gateways by Name, Gateway ID, or Version
Rows per Page	Adjust the number of rows displayed (dropdown in bottom right corner)
Column Settings	Customize visible columns (Settings icon on top right corner)

The screenshot shows a web interface titled "Gateways". At the top right, there are filters for "Singapore-ATS", "EN", and a refresh icon. Below the title is a search bar with the placeholder text "Search for Name/Gateway ID/Version" and a search icon. To the right of the search bar are buttons for "Reboot", "+ Add", and a settings icon. The main table has the following columns: Name, Gateway ID, Firmware Version, Number of Sensors, Status, Location, Last Seen, and Actions. There are two rows of data: "SG_lab1" with Gateway ID "34dac1b1011c", Firmware Version "v0.0.1", 5 sensors, and status "Offline"; and "SG_lab2" with Gateway ID "213da239af8c", Firmware Version "-", 0 sensors, and status "Offline". Each row has edit and delete icons in the Actions column. At the bottom right, there is a pagination control showing "1" of "10 / page".

Name	Gateway ID	Firmware Version	Number of Sensors	Status	Location	Last Seen	Actions
SG_lab1	34dac1b1011c	v0.0.1	5	Offline	Singapore-ATS/la...	2026-02-19 16:40:25	[Edit] [Delete]
SG_lab2	213da239af8c	-	-	Offline	Singapore-ATS/la...	-	[Edit] [Delete]

Figure 19: Gateway Table

4.4 Gateway Detail View

To access detailed information about a Gateway, click on the **Gateway ID** from the listing. This opens the Gateway Detail View with multiple tabs:

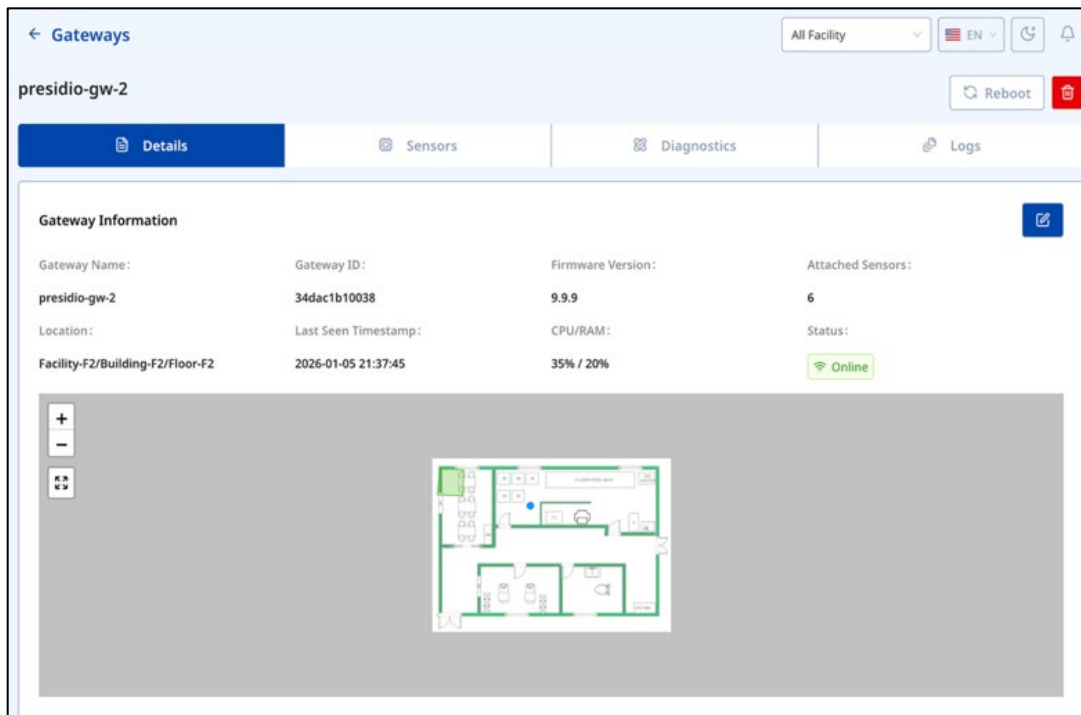


Figure 20: Gateway Detail View

4.4.1 Detail Tab

Displays the following information:

- Name
- Gateway ID
- Online/Offline Status
- Firmware Version
- Number of Connected Sensors
- Location
- Last Seen Timestamp
- Real-time CPU and RAM usage

4.4.2 Sensor Tab

Allows you to:

- View sensors currently connected to the Gateway
- Add/delete sensors
- Click on a Sensor ID to view sensor details (see Section 5)

Sensor List							
Sensor ID	Sensor Type	Associated Asset	Firmware Version	RSSI	Last Seen on	Status	Action
34dac1200909	Lynq	lab_motor	1.105	-47dBm	2026-02-06 14:53:04	Offline	
34dac1200a23	Lynq	lab_motor	1.105	-39dBm	2026-02-03 14:36:53	Offline	
34dac120018a	Lynq	lab_motor	1.105	-40dBm	2026-02-03 14:36:14	Offline	
34dac1200b94	Lynq	lab_motor	1.105	-21dBm	2026-01-14 09:52:54	Offline	
34dac1200860	Lynq	lab_motor	1.105	-35dBm	2026-01-14 09:52:46	Offline	

Figure 21: Attached Sensors

4.4.3 Diagnostics Tab

Monitor the health and performance of the Gateway over time:

CPU and RAM Usage Graph

- Toggle between predefined time ranges: **1 Day**, **3 Days**, **1 Week**
- Alternatively, use the custom date range picker

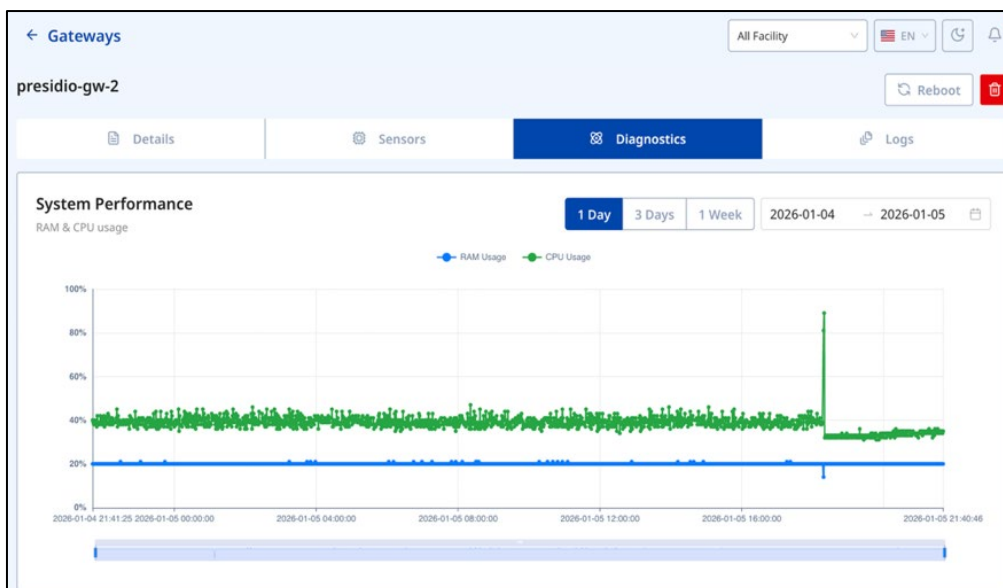


Figure 22: Ram and CPU Chart

Received Packets Statistics Graph

- Analyze network traffic patterns
- Toggle between predefined time ranges: **1 Day**, **3 Days**, **1 Week**
- Alternatively, use the custom date range picker



Figure 23: Packet Statistics

4.4.4 Logs Tab

View the Gateway's behaviour and operational history:

- Last firmware update date with user details
- Event details including:
 - Online/offline status changes
 - Reboots
 - Sensor assignments
 - Location changes

Details		Sensors	Diagnostics	Logs
Item	Event	User	Updated On	
1	Gateway is offline!	admin	2026-02-19 16:44:05	
2	cpu alarm	-	2026-02-19 16:37:05	
3	Gateway is online	-	2026-02-19 16:36:22	
4	Gateway is offline!	admin	2026-02-19 15:14:05	
5	bind a cn2202b 3.0(200909)	ekin.ngor	2026-02-06 14:52:34	
6	unbind a cn2202b 3.0(123456)	ekin.ngor	2026-02-06 14:52:00	
7	bind a cn2202b 3.0(123456)	ekin.ngor	2026-02-06 14:48:32	
8	unbind a cn2202b 3.0(200909)	ekin.ngor	2026-02-06 14:47:41	
9	bind a cn2202b 3.0(200909)	ekin.ngor	2026-02-06 14:39:28	
10	unbind a cn2202b 3.0(123456)	ekin.ngor	2026-02-06 14:39:11	

< 1 2 3 4 > 10 / page

Figure 24: Gateway Logs

5. Sensor Management

5.1 Adding a Sensor to the Platform

Note: You can add up to 10 sensors to a single gateway.

Log into the edgeRX™ Platform using your authorized credentials, then navigate to **Sensor Summary** to view all registered sensors in a paginated table.

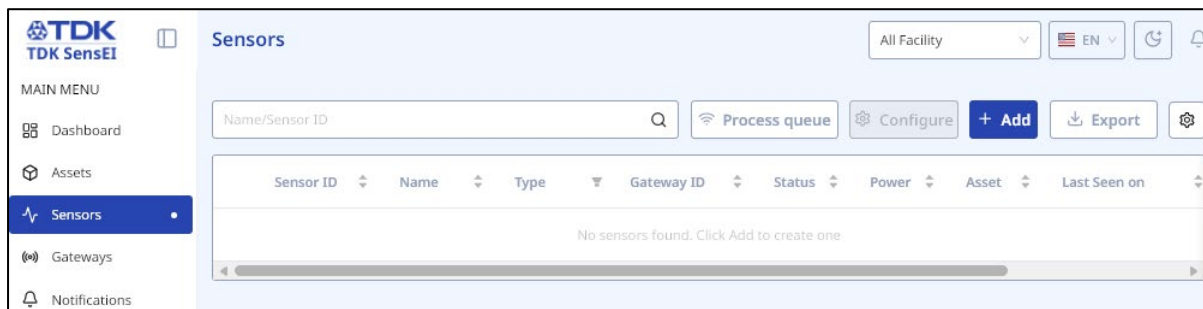


Figure 25: Sensor Summary

Steps to Add a Sensor

1. Go to **Sensor > Add Sensor**.

Figure 26: Add Sensor Modal

2. Enter the required details:

Field	Description
Sensor Name	A custom name for the sensor
Sensor ID	The Sensor ID (found printed on the side of each sensor)
Gateway	Select the appropriate Gateway from the dropdown
Location	Assign the sensor to a mapped location

3. Click **"Add"** to register the sensor into the system.

The new sensor will appear in the table and be available for monitoring and configuration.

⚠ Note: For physical sensor installation instructions, refer to the **edgeRX™ LYNQ Sensor User Manual**.

5.2 Managing Sensors

5.2.1 Edit a Sensor

1. Navigate to the sensor listing.
2. Click the **"Edit"** icon from the actions column.
3. Update the Sensor Name and/or Gateway details.
4. Click **"Confirm"** to save the edited changes.
5. Clicking **"Cancel"** will terminate the edit action.

Figure 27: Edit Sensor

5.2.2 Delete a Sensor

1. Click the "**Delete**" icon from the actions column.
2. Click "**Confirm**" to delete the sensor.
3. Clicking "**Cancel**" will terminate the delete action.

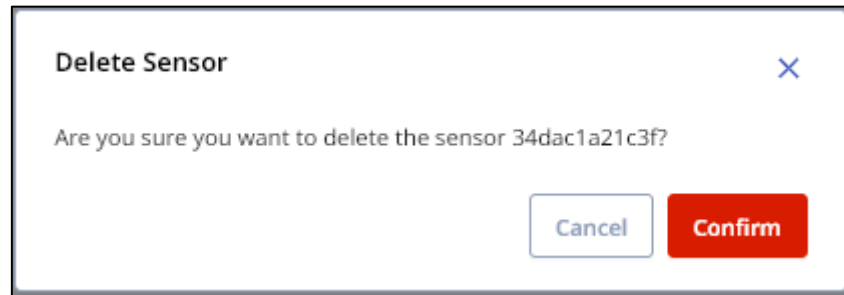


Figure 28: Delete Sensor Modal

The sensor will be removed from the table and no longer available for monitoring.

5.3 Sensor Table Features

The Sensor table provides a searchable, paginated view of all Sensors.

Sensor ID	Name	Type	Gateway ID	Status	Power	Asset	Last Seen on	Version	Actions
34dac1200909	Position_Sh...	Lynq	34dac1b1011c	Offline	2.9 V	lab_motor	2026-02-06 14:53:04	1.105	[Edit] [Delete]
34dac1200a23	lab_motor_1	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-02-03 14:36:53	1.105	[Edit] [Delete]
34dac120018a	Lab_motor_3	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-02-03 14:36:14	1.105	[Edit] [Delete]
34dac1200b94	lab_motor_2	Lynq	34dac1b1011c	Offline	2.9 V	lab_motor	2026-01-14 09:52:54	1.105	[Edit] [Delete]
34dac1200860	lab_motor_4	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-01-14 09:52:46	1.105	[Edit] [Delete]

Figure 29: Sensor Table

Feature	Description
Search Bar	Locate sensors by Name or Sensor ID
Rows per Page	Adjust display (dropdown in right bottom corner)
Column Settings	Customize visible columns (Settings gear in top-right corner)

Table Columns:

- Sensor ID
- Sensor Name
- Sensor Type
- Linked Gateway
- Online/offline status
- Battery Life
- Linked Asset
- Last Seen Time
- Firmware version
- Delete and Edit actions

5.4 Sensor Configuration

5.4.1 Process Queue

The "**Process Queue**" button (on the top panel) enables you to view current and pending OTA & Configuration updates to the sensors.

No.	Sensor ID	Sensor Type	Status	Created On	Upgrade On
1	34dac120018a	Lynq	Finished	2026-01-13 14:32:02	2026-01-13 14:38:34

Figure 30: Process Queue Modal

5.4.2 Configure KPI Interval

1. Select one Sensor from the listing screen.
2. Click the "**Configure**" button on the top panel.
3. Input your desired KPI Interval.
4. Click "**Save**" to apply changes.

Sensor ID	Name	Type	Gateway ID	Status	Power	Asset	Last Seen on	Version	Actions
<input checked="" type="checkbox"/> 34dac1200909	Position_5h...	Lynq	34dac1b1011c	Offline	2.9 V	lab_motor	2026-02-06 14:53:04	1.105	
<input type="checkbox"/> 34dac1200a23	lab_motor_1	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-02-03 14:36:53	1.105	
<input type="checkbox"/> 34dac120018a	Lab_motor_3	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-02-03 14:36:14	1.105	
<input type="checkbox"/> 34dac1200b94	lab_motor_2	Lynq	34dac1b1011c	Offline	2.9 V	lab_motor	2026-01-14 09:52:54	1.105	
<input type="checkbox"/> 34dac1200860	lab_motor_4	Lynq	34dac1b1011c	Offline	3 V	lab_motor	2026-01-14 09:52:46	1.105	

Figure 31: Configure Sensor

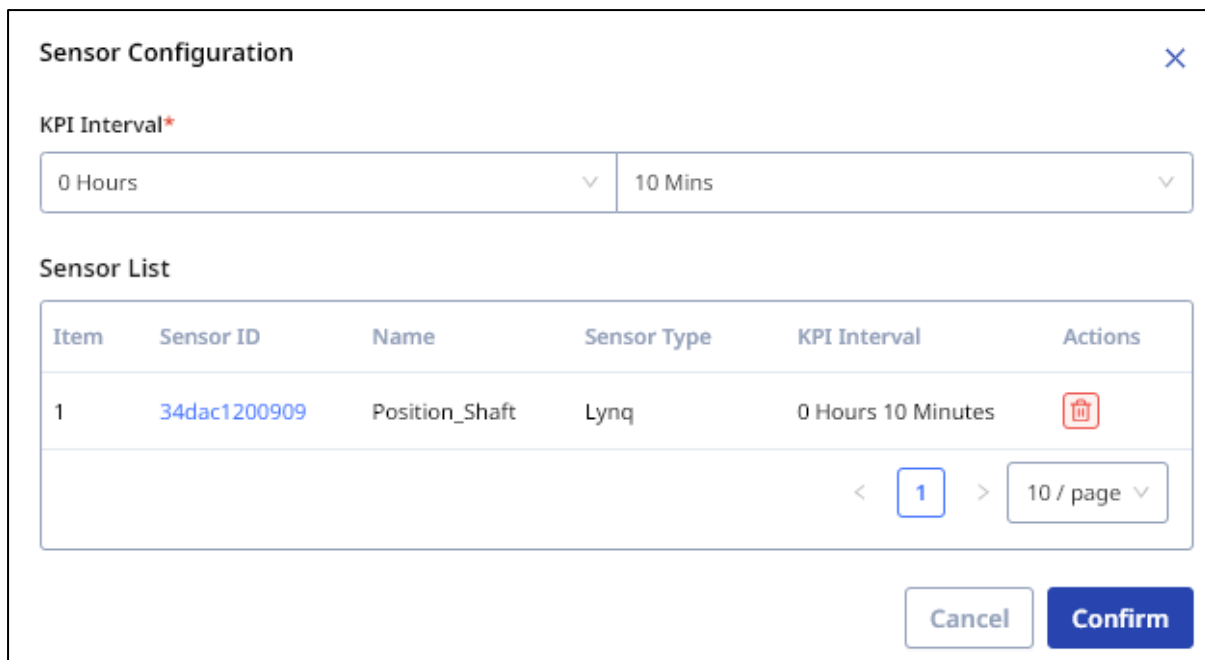


Figure 32: Configuration Modal

5.5 Sensor Detail View

Click on a sensor from the listing to open its **Sensor Detail View**. This page includes configuration settings, performance metrics, and AI insights.

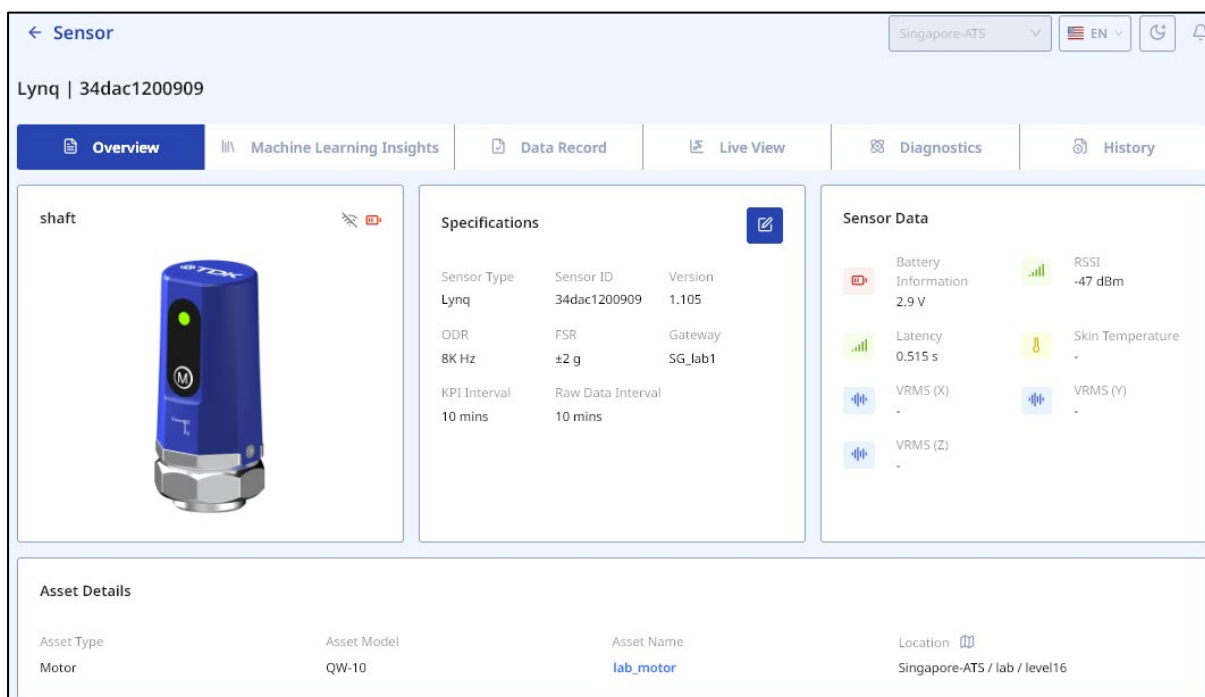


Figure 33: Sensor Detail View

5.5.1 Overview Tab

Displays the following information:

Visual Sensor Placement

- Shows where the sensor is mounted

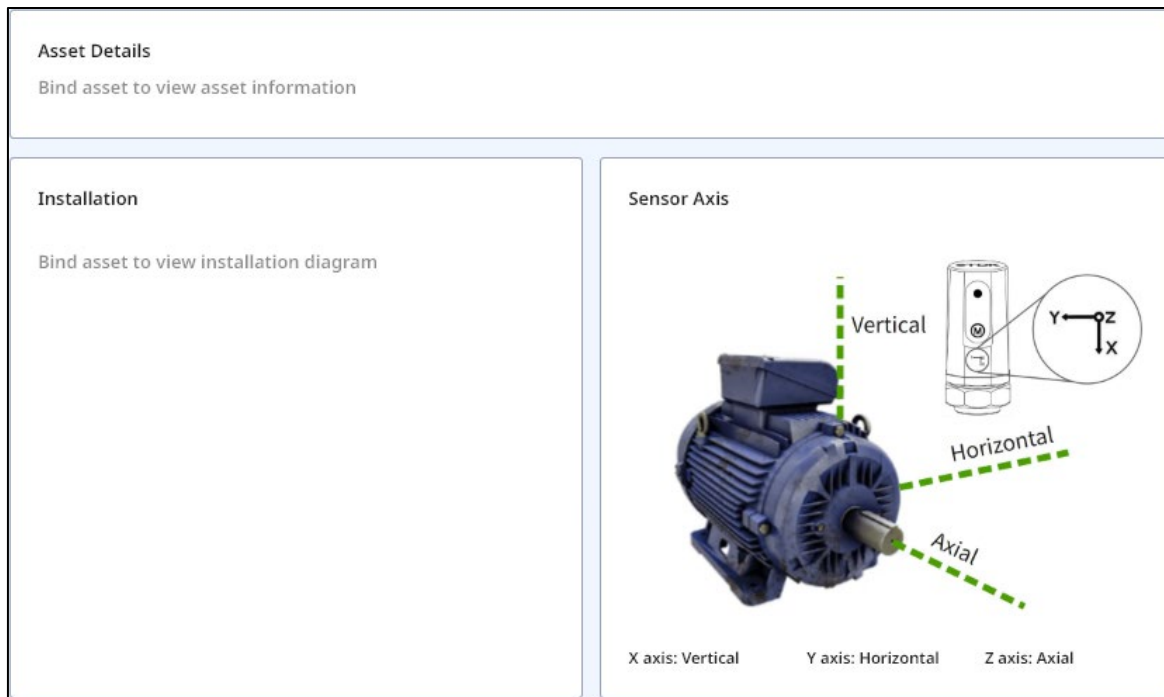


Figure 34: Bind Sensor Visual Guide

⚠ Note: Installation diagram will only show up after binding sensor to an asset.

Connectivity and Signal Status



Figure 35: Connectivity indicators

Sensor Specifications:

- Output Data Rate (ODR)
- Full-Scale Range (FSR)
- KPI Interval
- Raw Data Interval
- Inference Interval
- Network

Specifications		
Sensor Type	Sensor ID	Version
Lynq	34dac1200909	1.105
ODR	FSR	Gateway
8K Hz	±2 g	SG_lab1
KPI Interval	Raw Data Interval	
10 mins	10 mins	

Figure 36: Sensor Specifications

ML Information:

- ML Model in use
- ML Type
- Class Label
- Score Threshold
- Class Alarm/Warning

The screenshot displays the 'Machine Learning Insights' interface for a specific sensor. The main content area is divided into two primary sections: 'Inference Results' and 'Class Probabilities'. In the 'Inference Results' section, a box labeled 'cluster_0' is shown, along with an 'Anomaly Score at 2025-12-30 23:45:31 : 0.09'. A 'Start Live Inference' button is located below this information. The 'Class Probabilities' section contains a table with the following data:

Class Labels	Probability
cluster_0	1.00

At the bottom of the page, there is a section titled 'Real-time Anomaly Scores' with the note 'Only last 3 hours data displayed'.

Figure 37: Machine Learning Page

Sensor Data:

- Battery Voltage

- RSSI
- Latency
- Skin Temperature
- VRMS (X, Y, Z)
- ML Classification

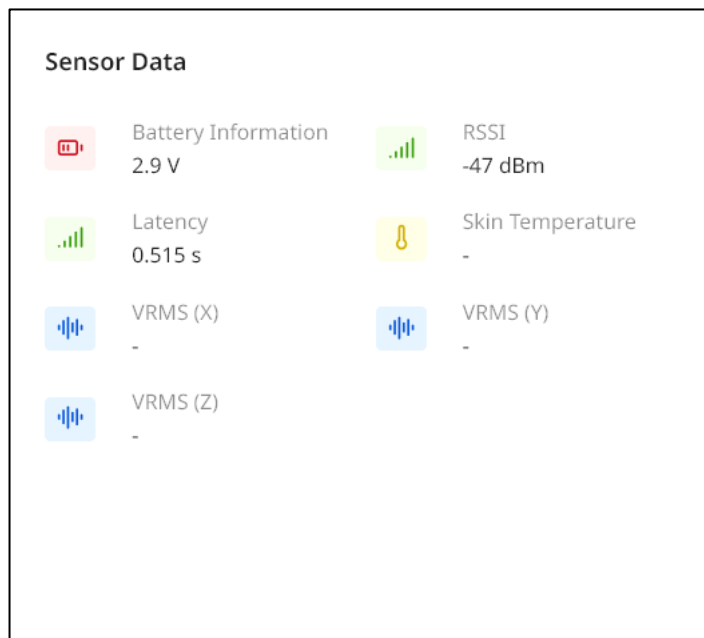


Figure 38: Sensor Data

Asset Details:

- Asset Type
- Asset Model
- Asset Name
- Location

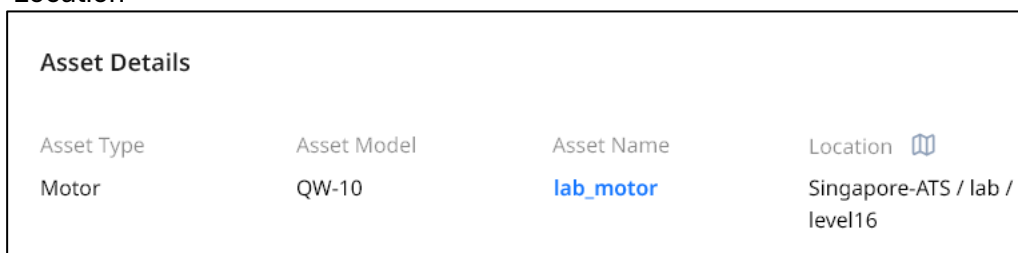


Figure 39: Asset Details

5.5.2 Diagnostics Tab

Select a time range to view historical data including:

- Battery Voltage
- RSSI (Signal Strength)
- Packet Statistics
- Latency

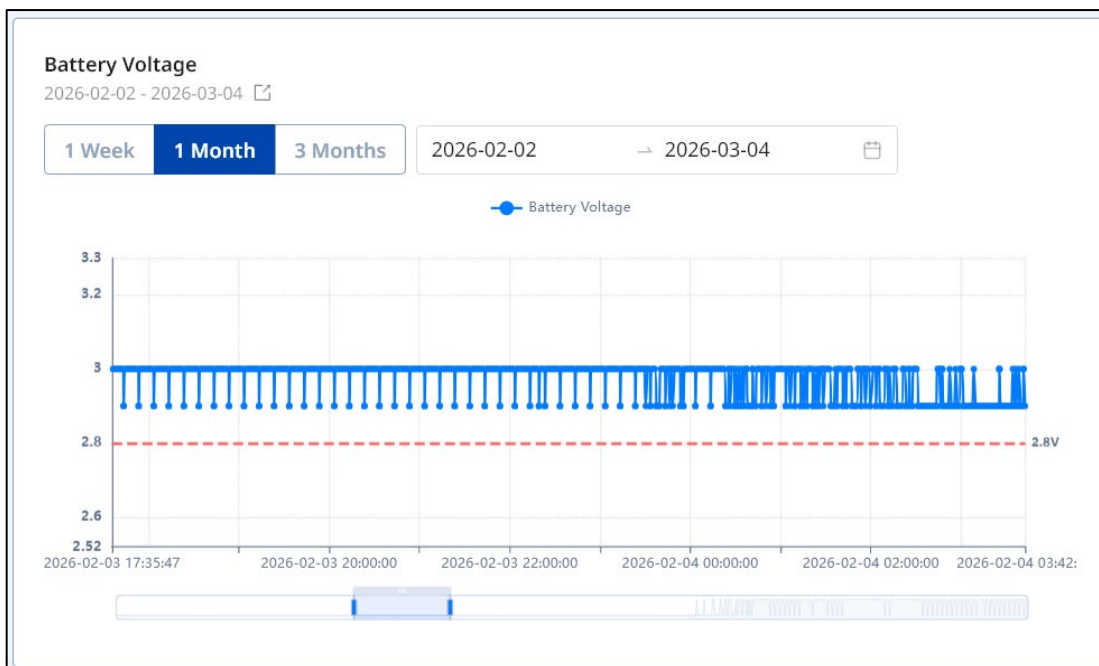


Figure 40: Battery Voltage

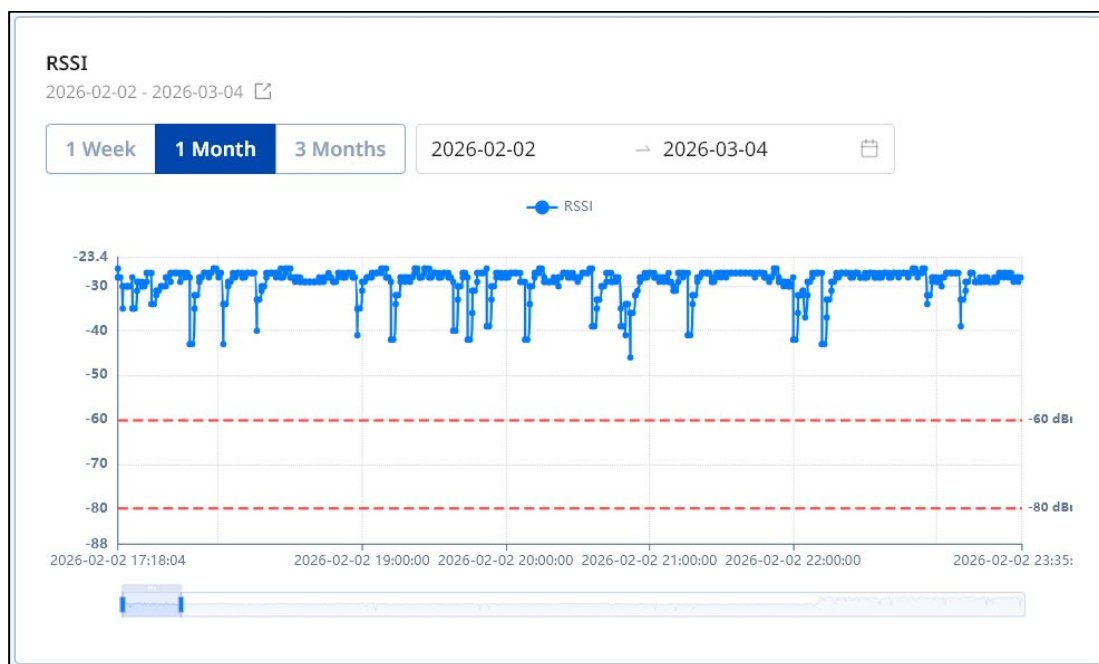


Figure 41: RSSI Graph

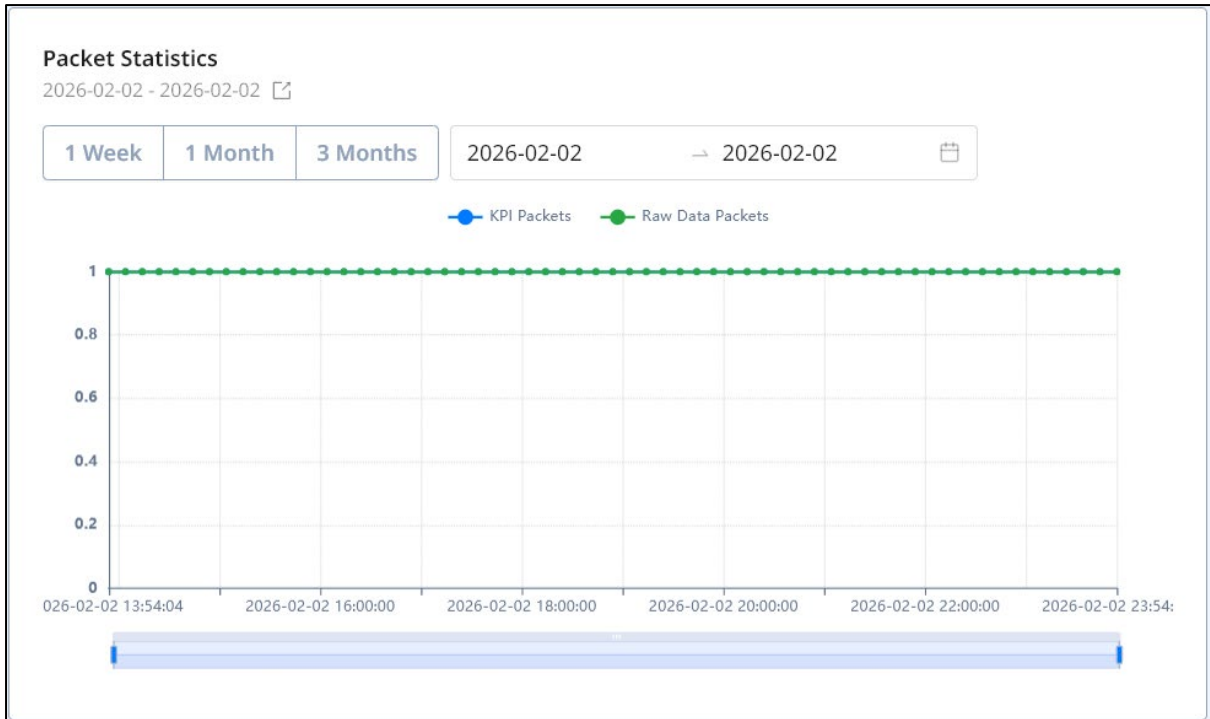


Figure 42: Packet Statistics

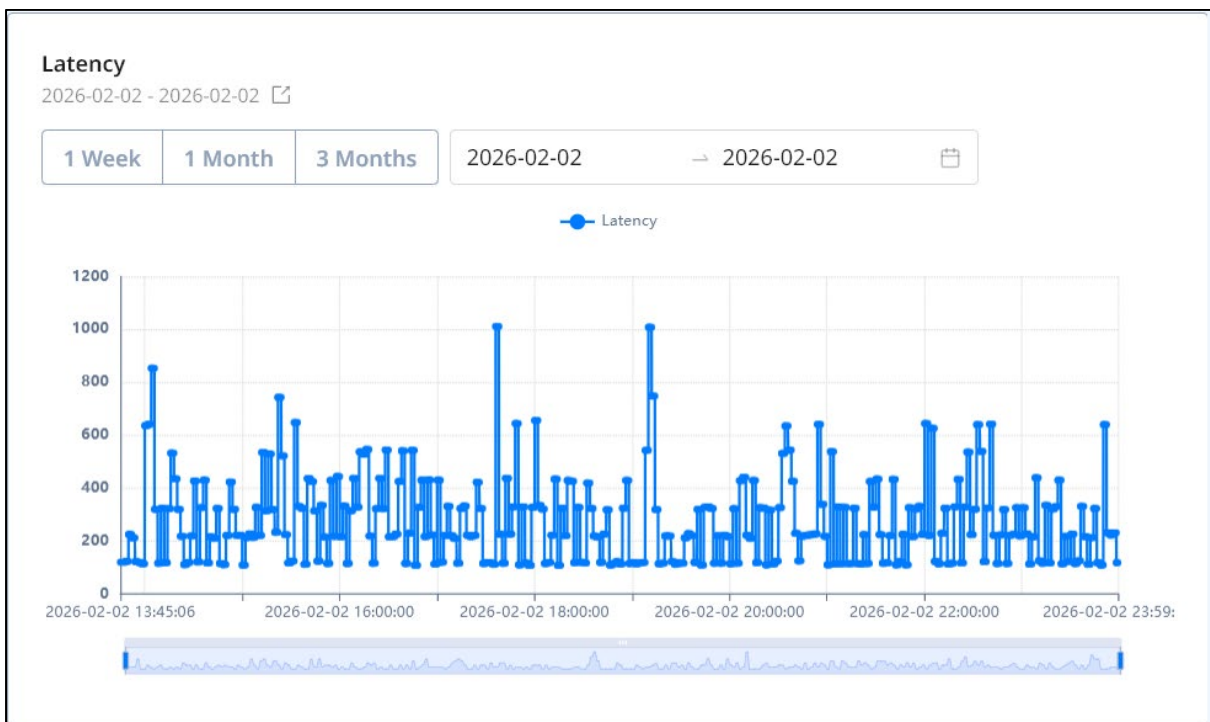


Figure 43: Latency

5.5.3 Event Log Tab

View a chronological record of system and model-related events, including:

- Configuration changes
- Model deployments
- Sensor status changes
- Sensor resets
- Cluster/class label renaming
- Firmware updates
- Interval changes
- Changes in associations with assets, Gateways, or networks

Item	Asset Name	Asset Type	Install time	Remove time
1	lab_motor	Motor	2026-01-13 14:25:35	-
2	YTC-PUMP1-UAT	Pump	2025-12-26 23:58:11	2026-01-13 14:23:13

Figure 44: Sensor Event

5.5.4 Sensor History Tab

View installation and removal records associated with the sensor or system.

Item	Event	User	Updated On
1	cn2202b 3.0 is offline!	-	2026-02-03 14:54:05
2	update Change parameter "Live view:Data source" from no selection to Axial/Radial_V/Ra Change parameter "Live view:ODR" from 0kHz to 1kHz Change parameter "Live view:FSR" no selection to 2	Karan.Shetti	2026-02-02 13:45:45
3	cn2202b 3.0 is online	-	2026-02-02 13:44:56
4	cn2202b 3.0 is offline!	-	2026-01-14 09:56:05
5	cn2202b 3.0 is online	-	2026-01-13 14:53:31
6	cn2202b 3.0 is offline!	-	2026-01-13 14:48:05
7	Change parameter "Name" from Shaft-end to lab_motor_1	Karan.Shetti	2026-01-13 14:25:02
8	cn2202b 3.0 is online	-	2025-12-22 17:01:50
9	add cn2202b 3.0 sensorID:200a23 bind to gatewayID:34dac1b1011c.	Karan.Shetti	2025-12-22 17:00:27

Figure 45: Sensor History

6. Asset Management

6.1 Adding Assets

Note: To set up assets on the edgeRX™ Platform, users must

1. have created a department (see [Section 3.5](#)).
2. add an asset model in the AssetDB section (see [Section 11.2.2](#)) or add a model during asset creation.

Log into the edgeRX™ Platform using your authorized credentials, then navigate to **Assets Page** to view all registered assets in a searchable, paginated table.

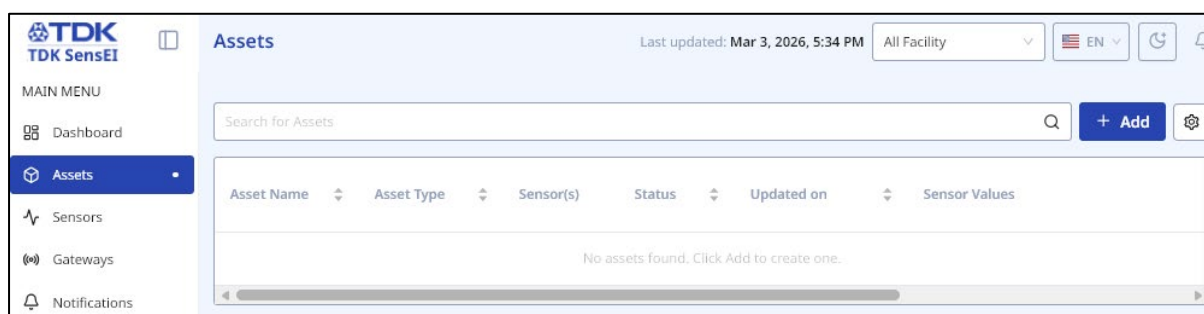


Figure 46: Asset Table

Steps to Add a New Asset

1. Go to **Assets > Add Asset**.

Figure 47: Add Asset Model

2. Enter the required details:

Field	Description
Asset Name	Custom name for identification
Department	Select from pre-selected list
Asset Type	Select from predefined types
Criticality	Select criticality level (High, Medium, Low)
Asset Model	Choose an existing model or create a new one
Image	Upload an image of the asset
Facility	Assign the asset to a mapped facility or zone

Figure 48: Creating New Asset Model

3. Click **"Add"** to register the asset into the system.

The new asset will appear in the table and be available for monitoring and configuration.

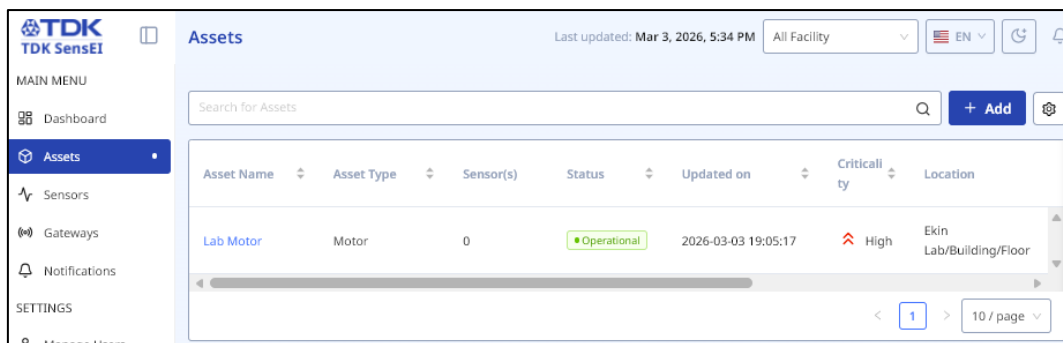


Figure 49: Asset Table

6.2 Asset Table Features

Feature	Description
Search Bar	Locate assets by name, ID, or keyword
Column Settings	Show or hide specific fields
Rows per Page	Adjust display (dropdown in right bottom)

Table Columns:

- Asset Name
- Asset Type
- Linked/Associated Sensor(s)
- Status
- Last Updated Time
- Sensor Values
- Criticality (High, Medium, Low)
- Location
- Actions

6.3 Managing Assets

6.3.1 Delete an Asset

1. Click the **"Delete"** icon from the Actions column.
2. Click **"Delete"** in the modal that appears to confirm.
3. Clicking **"Cancel"** will cancel the delete action.

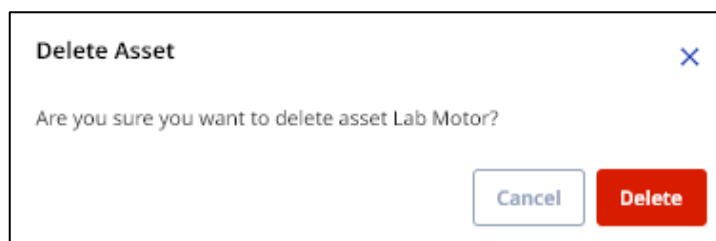


Figure 50: Delete Asset Model

Upon confirmation, the asset will be removed from the system.

6.4 Binding Sensors to Assets

To bind a sensor to an asset:

1. Click on an **Asset Name** to open the Asset Detail View.

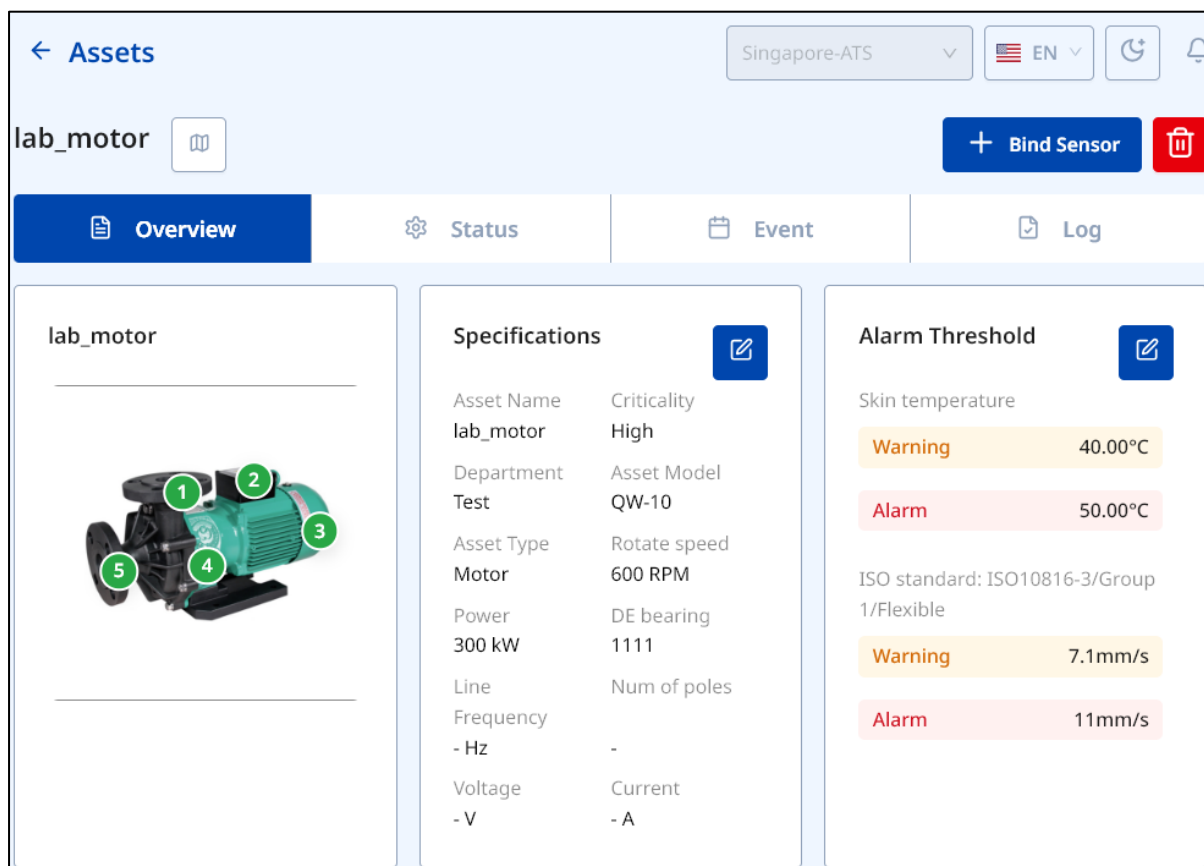


Figure 51: Asset Details

2. Click the **"Bind Sensor"** button on the top right corner.
3. Enter the following details in the modal:

Field	Description
Sensor Type	Type of sensor
Sensor ID	Select from available sensors
Mounting Position	Physical mounting location on the asset
Orientation	Sensor orientation (X, Y, Z axis)

Bind Sensor ✕

Sensor Type* <input style="width: 90%; border: 1px solid #ccc;" type="text" value="Lynq"/>	Sensor ID (Sensor Name)* <input style="width: 90%; border: 1px solid #ccc;" type="text" value="34dac1200909 (Position_Shaft)"/>
Position* <input style="width: 90%; border: 1px solid #ccc;" type="text" value="shaft"/>	Orientation <input style="width: 90%; border: 1px solid #ccc; background-color: #f0f0f0;" type="text" value="Please select Orientation"/>




Figure 52: Bind Sensor

4. Click **"Add"** to bind the sensor to the asset.

Unbinding a Sensor

1. Click on the **Sensor ID** of the sensor bound to that asset.
2. You will be redirected to the Sensors page.
3. Click the **"Unbind"** button on the top right corner.
4. Click **"Confirm"** to unbind.
5. Clicking **"Cancel"** terminates the action.

Unbind Sensor ✕

Are you sure you want to unbind this sensor from the asset?

Figure 53: Unbind sensor

6.5 Asset Location Management

To update the asset location:

1. Click the **"View Map"** button to open the interactive map.

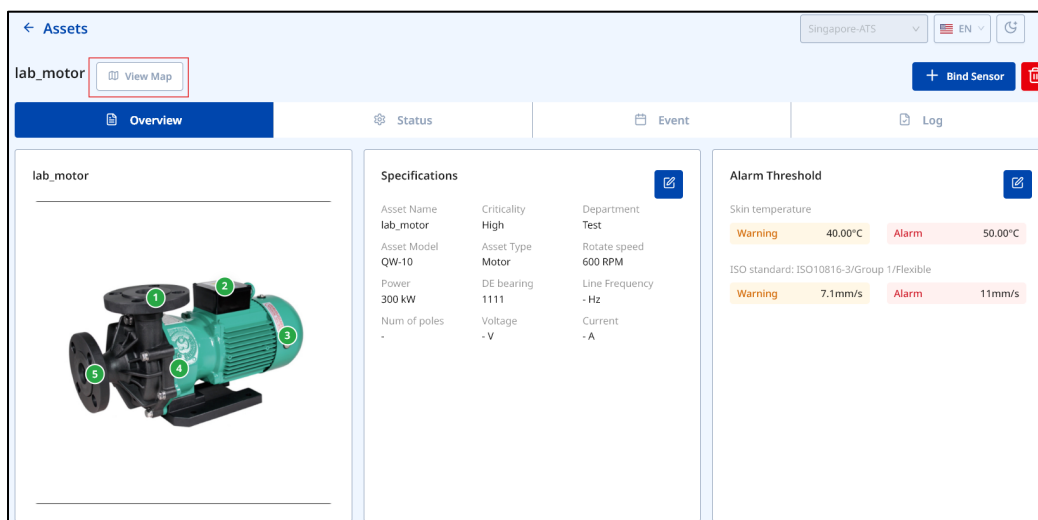


Figure 54: Asset Detail View Map

2. Click the **"Edit"** icon next to Asset Location.
3. Drag and drop the asset pin to the correct position or select a predefined zone from the dropdown list.



Figure 55: Asset Detail Edit Location

4. Click **"Save"** to update the location.

6.6 Asset Detail View

Click on any asset from the listing to open its **Asset Detail View**. This page includes configuration settings, sensor assignments, and performance metrics.

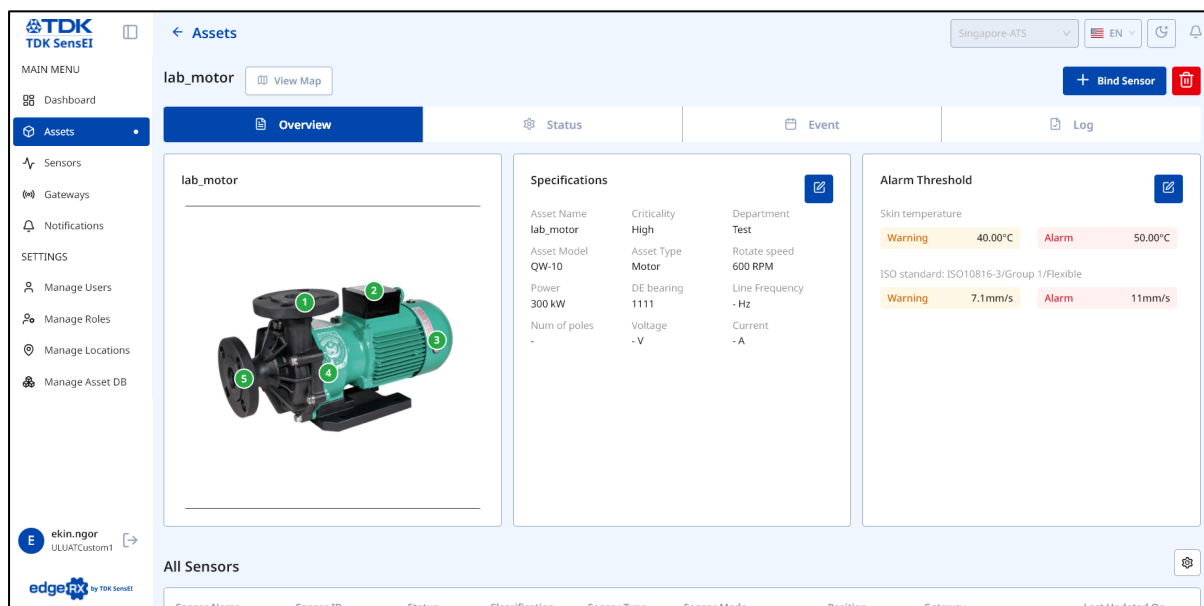


Figure 56: Asset Detail View

6.6.1 Overview Tab

Displays:

- Asset Specifications
- Linked Sensor Information

Sensor Name	Sensor ID	Status	Classification	Sensor Type	Sensor Mode	Position	Gateway	Last Updated On
lab_motor_1	34dac1200a23	Offline	--	Lynq	KPI/Raw Data/--	Top	SG_lab1	2026-02-13 05:25:40
lab_motor_2	34dac1200b94	Offline	--	Lynq	KPI/Raw Data/--	black	SG_lab1	2026-02-13 05:25:53
Lab_motor_3	34dac120018a	Offline	--	Lynq	KPI/Raw Data/--	3	SG_lab1	2026-02-13 05:25:58
lab_motor_4	34dac1200860	Offline	--	Lynq	KPI/Raw Data/--	side	SG_lab1	2026-02-13 05:19:07

Figure 57: Asset Detail Linked Sensors

- Threshold Settings
- Location (View Map)
- Model Details

6.6.2 Status Tab

Displays:

- Sensor trend data for vibration and temperature over time
- Visual indicators for anomalies and performance degradation



Figure 58: Asset Status Trend

6.6.3 Event Tab

Provides:

- A chronological record of sensor and asset-related actions

Status	Source	Sensor	Event	Reported On	Updated On	Count	User
Warning	lab_motor	34dac1200a23	Skin temperature exceed warning threshold	2026-01-13 14:27:16	-	1	-
Closed	lab_motor	34dac1200b94	Skin temperature exceed alarm threshold	2026-01-13 14:36:54	2026-01-13 14:37:24	1	Karan.Shetti
Closed	lab_motor	34dac1200b94	Skin temperature exceed alarm threshold	2026-01-13 14:37:54	2026-01-13 14:52:34	1	Karan.Shetti

Figure 59: Asset Detail Event

6.6.4 Asset Logs Tab

Shows:

- Installation and removal records
- Historical changes such as binding, unbinding, and coordinate updates

Item	Event	User	Updated On
1	Unbound the sensor "200909"	ekin.ngor	2026-03-04 17:23:19
2	Machine status changed from normal to offline		2026-02-06 14:57:12
3	Machine status changed from offline to normal		2026-02-06 14:53:03
4	Bound the sensor "200909"	ekin.ngor	2026-02-06 14:52:58
5	Bound the sensor "123456"	ekin.ngor	2026-02-06 14:50:12
6	Machine status changed from normal to offline		2026-02-06 14:48:32
7	Machine status changed from offline to normal		2026-02-06 14:47:03
8	Bound the sensor "200909"	ekin.ngor	2026-02-06 14:46:09
9	Machine status changed from normal to offline		2026-02-06 14:38:47

Figure 60: Asset Detail Logs

7. Machine Learning in edgeRX™

7.1 ML Information Overview

The edgeRX™ Platform leverages Edge AI to process data locally at the source. Machine Learning models analyze sensor data to detect anomalies and classify asset conditions in real-time.

ML Information is displayed in the **Sensor Detail View > Overview Tab** (see [Section 5.5.1](#)).

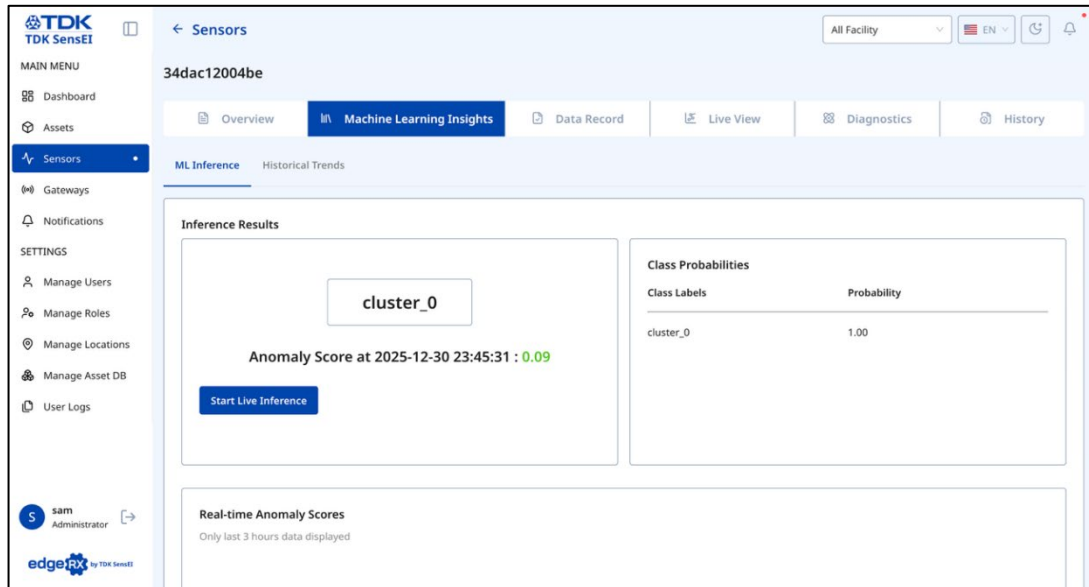


Figure 61: Sensor Machine Learning

7.2 ML Model Types

The edgeRX™ system supports various ML model types optimized for different asset monitoring scenarios. The specific model type deployed to each sensor depends on:

- Asset type
- Monitoring requirements
- Historical performance data

7.3 Class Labels and Score Thresholds

Class Labels

Class labels represent different operational states of monitored assets, such as:

- Normal Operation
- Degradation
- Fault Conditions
- Specific Failure Modes

Score Thresholds

Score thresholds determine when alerts are triggered:

Threshold Type	Description
Warning	Indicates potential degradation; requires monitoring
Alarm	Indicates critical condition; requires immediate attention

Administrators can configure these thresholds in the ML Information section of each sensor. Notifications will not be sent if the scores fall under the threshold.

8. Viewing AI Inference Results

8.1 ML Insights Tab

The **Machine Learning (ML) Insights** tab enables you to view AI-based classifications and anomaly scores of the sensor, allowing you to assess the operational status of the asset and detect abnormal conditions in real-time.

To access: Navigate to **Sensor Detail View > ML Insights Tab**.

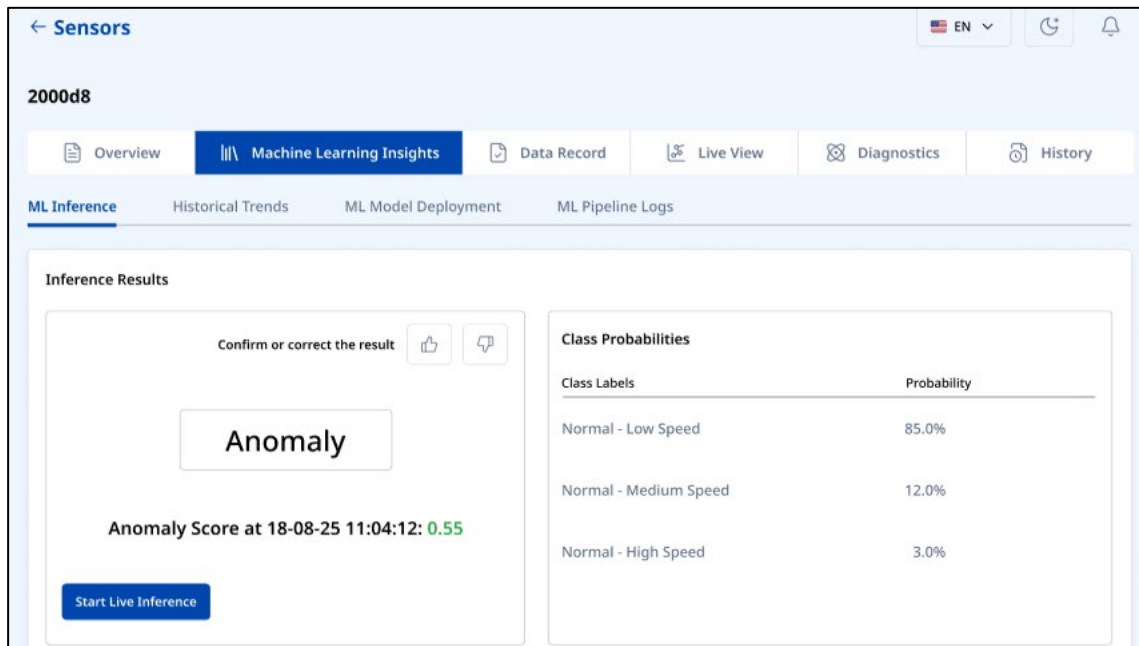


Figure 62: Sensor ML Class

8.2 ML Inference Tab

The ML Inference tab displays:

- Inference results
- Class probabilities
- Real-time Anomaly scores

8.3 Start/Stop Live Inference

Starting Live Inference

1. Click "**Start Live Inference**".
2. Click "**Confirm**" to start collecting data in real-time.
3. Clicking "**Cancel**" will stop the live inference action.

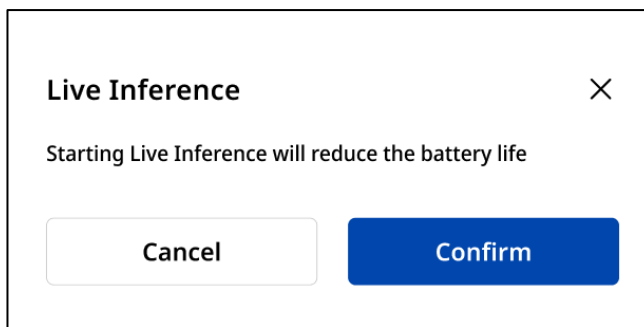


Figure 63: ML Live Inference Confirmation

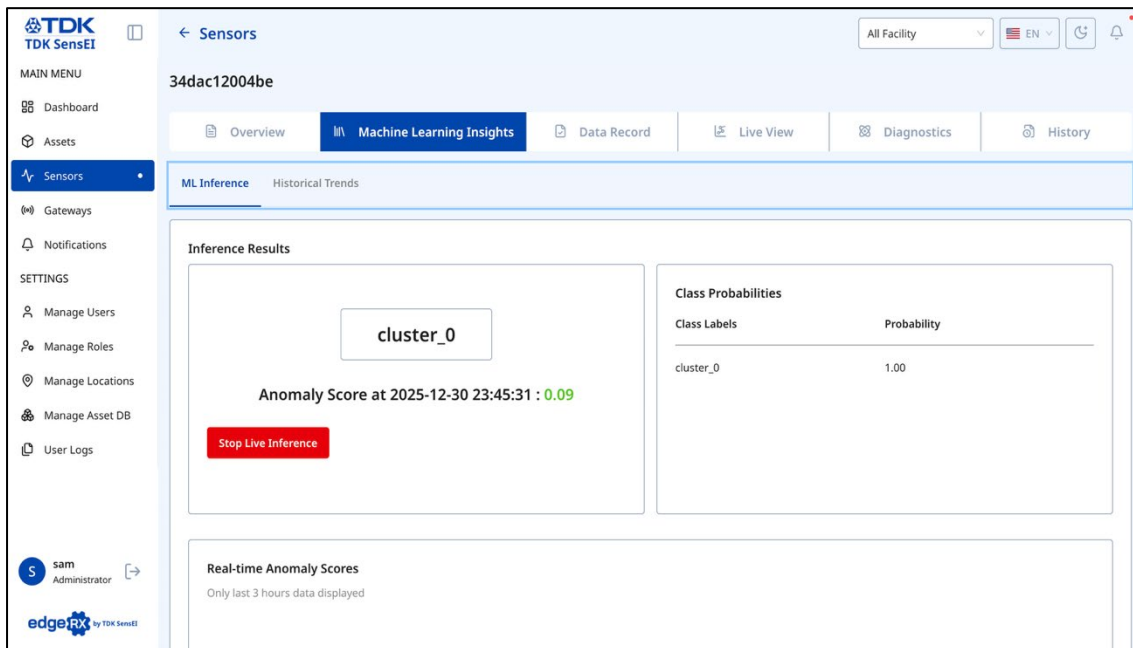


Figure 64: Sensor ML Live Inference

Stopping Live Inference

Clicking "**Stop Live Inference**" before the predefined 10-minute timer ends will terminate the action and stop collecting live inference data.

Viewing Real-Time Data

The user can view:

- Real-Time Anomaly scores
- Real-Time Anomaly Trend Chart of most recent 3 hours

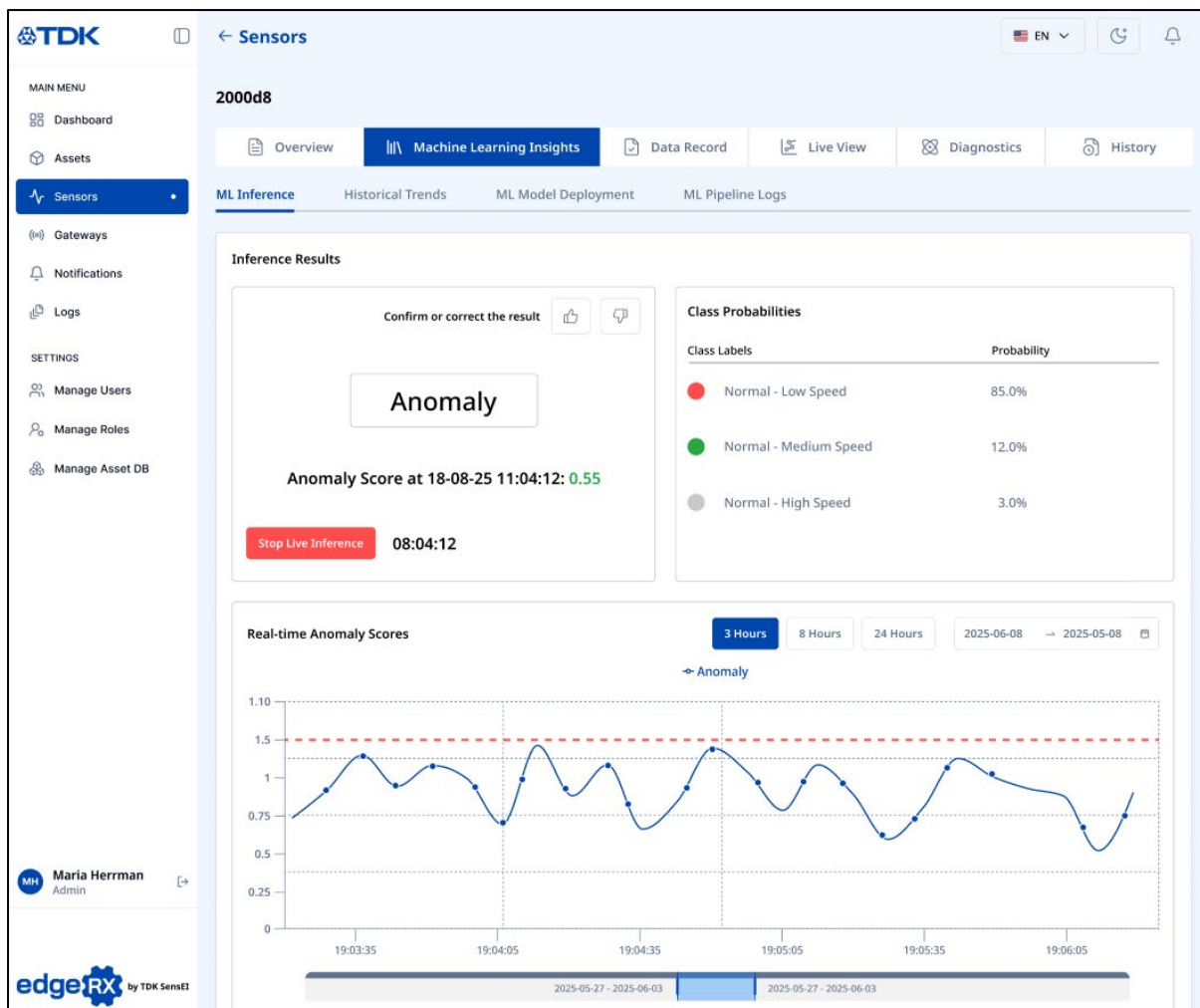


Figure 65: ML Real Time Chart

8.4 Historical Trends Analysis

The **Historical Trends** tab displays trend analysis of the sensors. Users can see:

- Median Score
- Anomaly Rate
- Max Anomaly Score

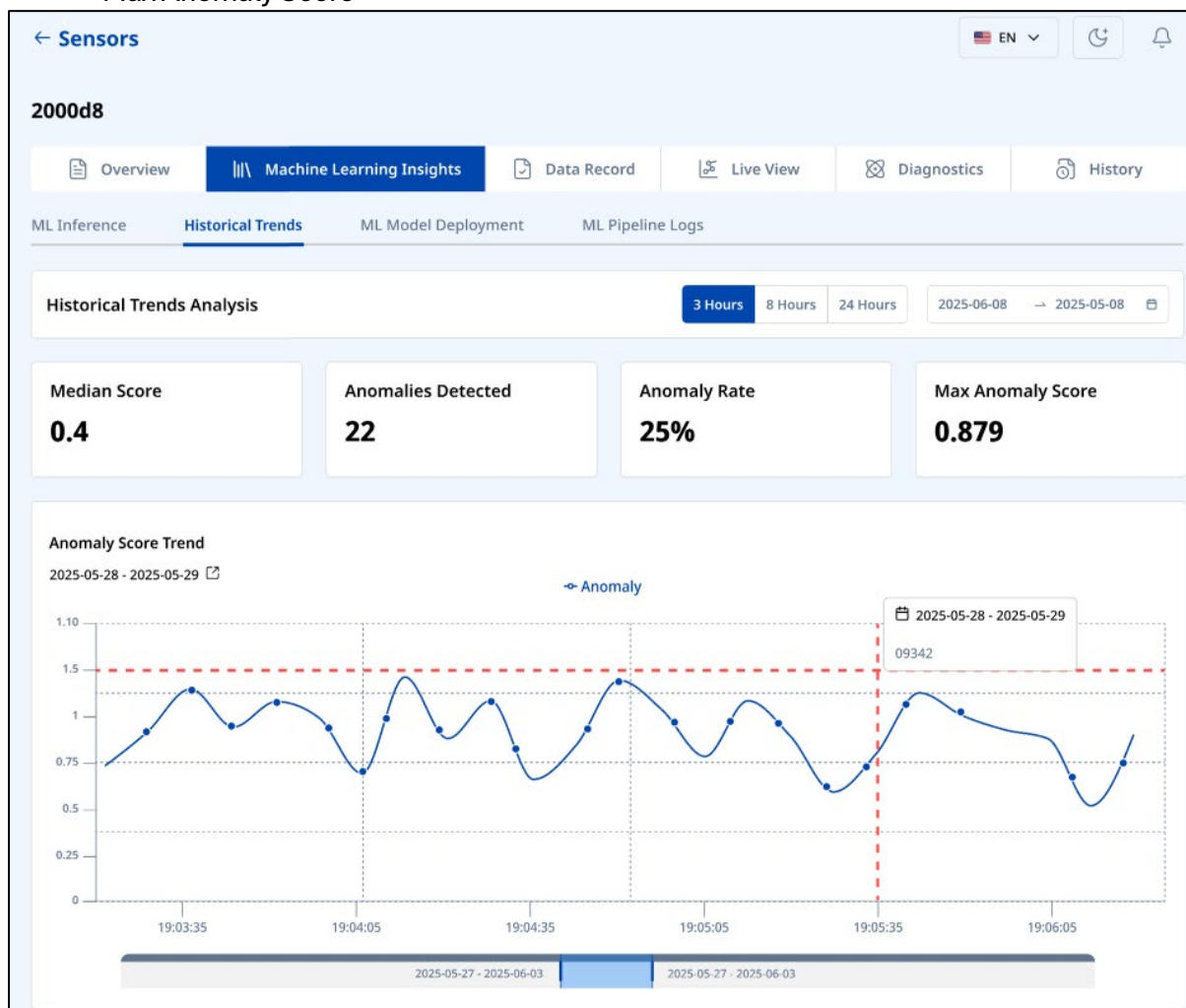


Figure 66: ML Historical Trends

Time Range Selection

Toggle between predefined time ranges:

- **3 hours**
- **8 hours**
- **24 hours**

Alternatively, use the date range picker to observe data in:

- Anomaly Score Trend charts
- Class Probability Trends charts

9. Data & Monitoring

9.1 Data Records

Navigate to **Sensor Detail View > Data Record Tab** to view performance trends and raw signal values.

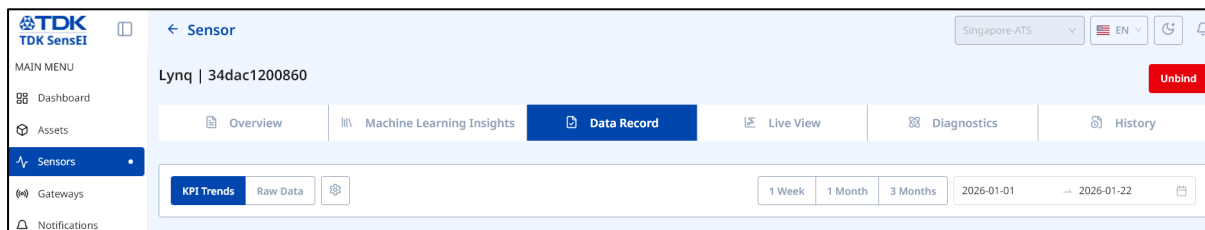


Figure 67: Sensor Data Records

9.1.1 KPI Trend

The KPI Trend tab includes two sub-tabs:

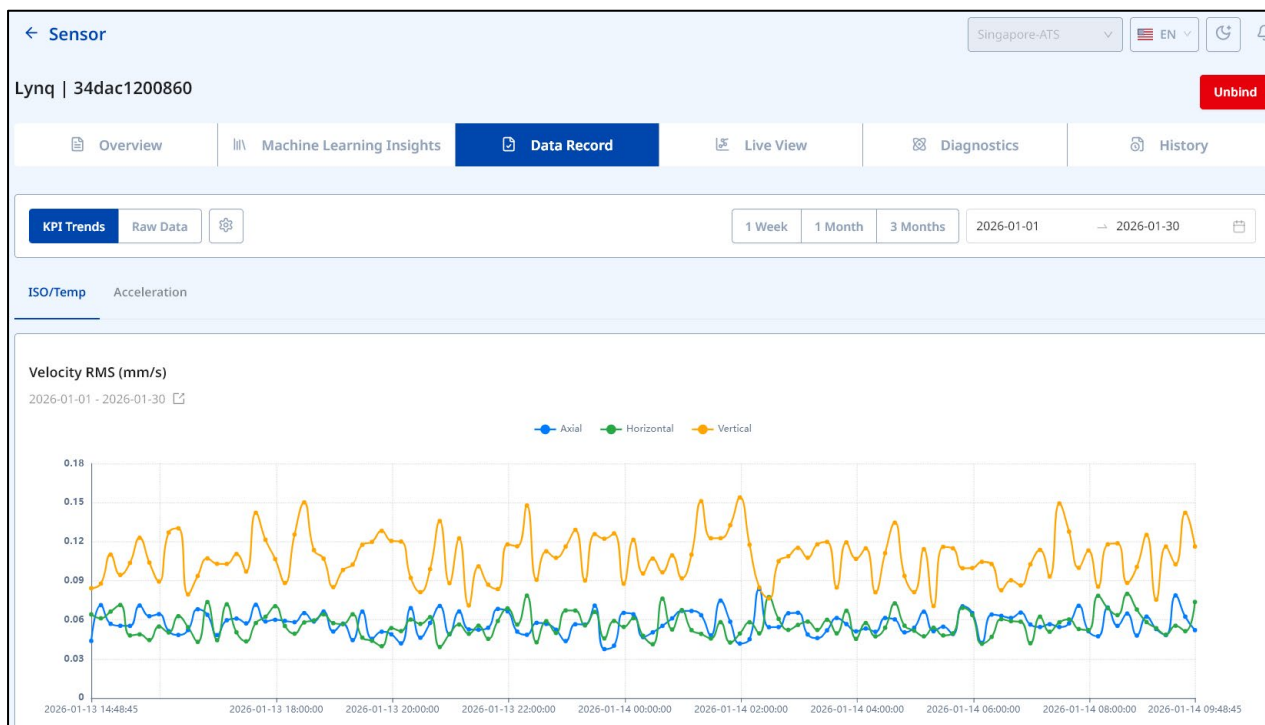


Figure 68: Sensor KPI Trend

ISO/Temp Sub-tab

View:

- Velocity RMS
- Rotating Speed
- Skin Temperature

Acceleration Sub-tab

View:

- Acceleration Peak
- Acceleration RMS
- Crest Factor

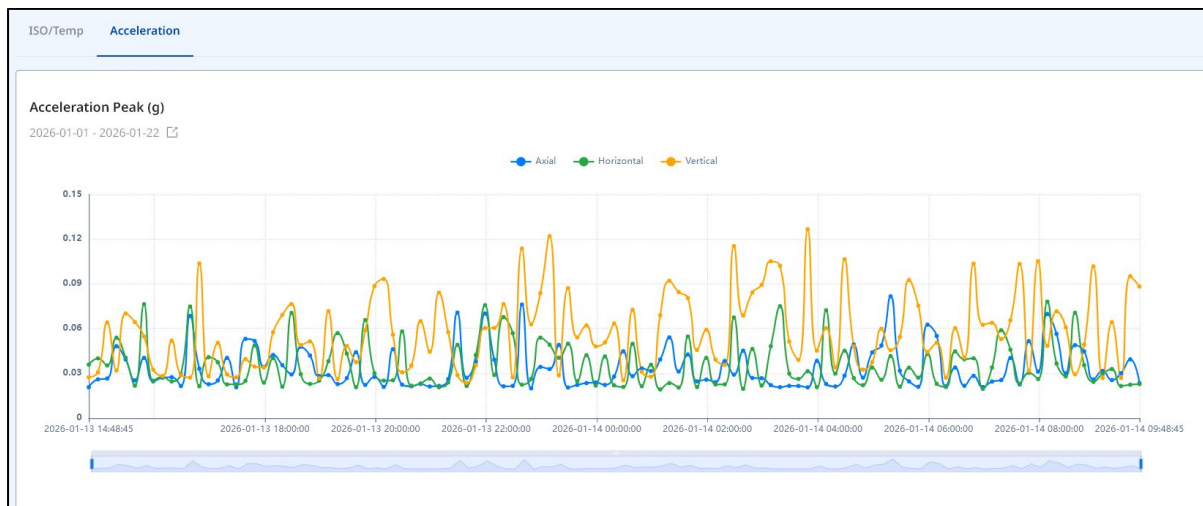


Figure 69: Sensor Acceleration Chart

Time Range Selection:

- Toggle between **1 Week**, **1 Month**, **3 Months**
- Alternatively, use the custom date picker

9.1.2 Raw Data

The Raw Data tab includes two sub-tabs: **Velocity** and **Acceleration**.

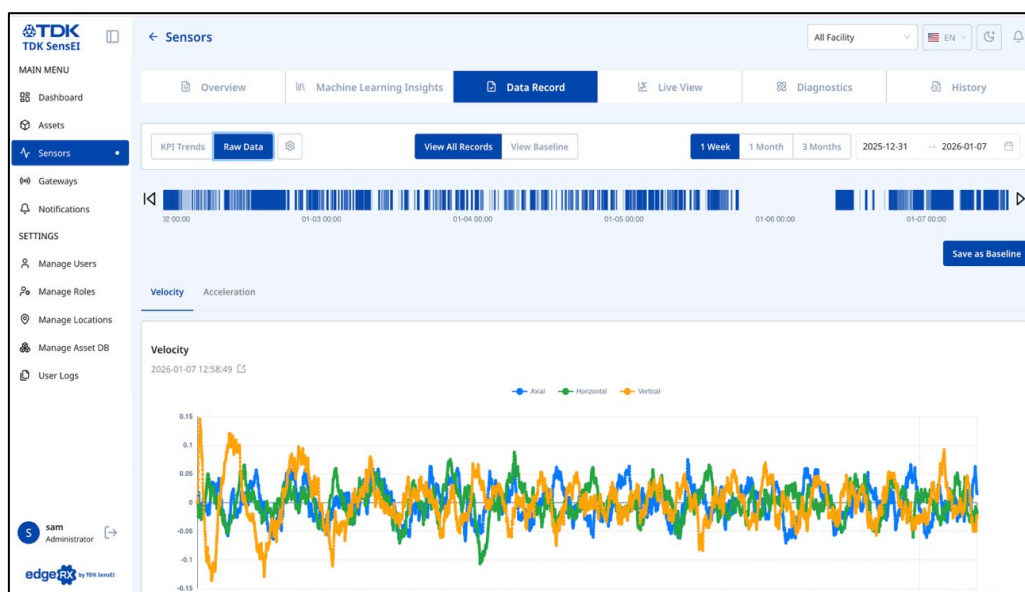


Figure 70: Sensor Raw Data

Use the "**View Baseline**" button to show only records marked as baselines.

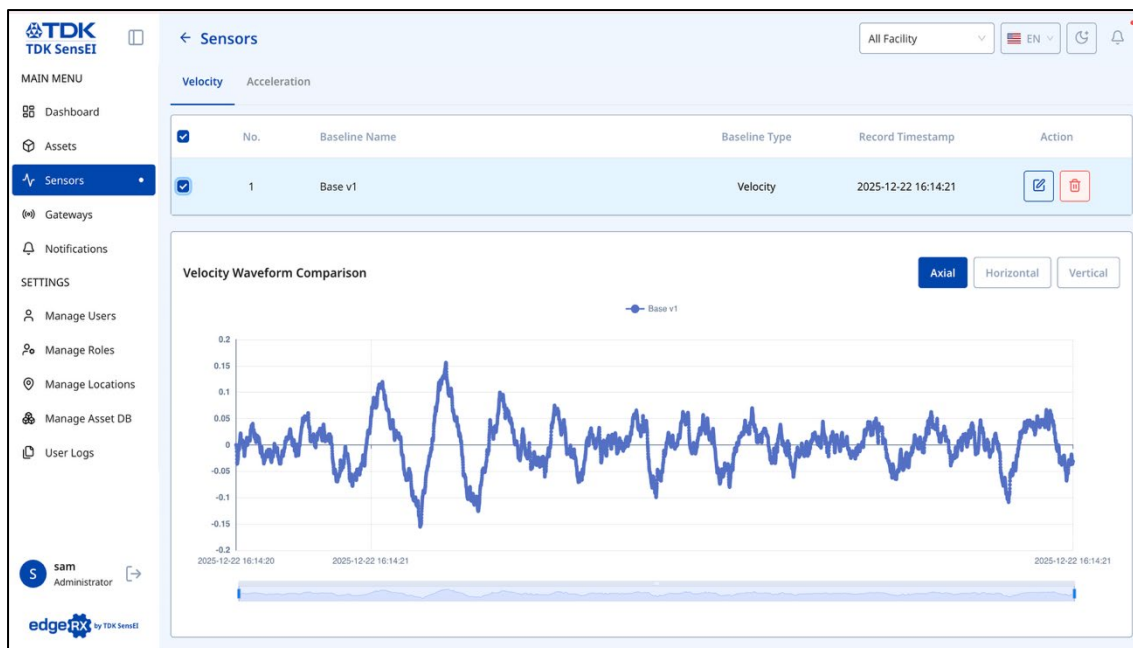


Figure 71: Sensor View Baseline

Velocity Sub-tab

View:

- Velocity Chart
- Data table containing velocity details
- Velocity Spectrum Chart
- Peak Frequencies
- Harmonic Frequencies

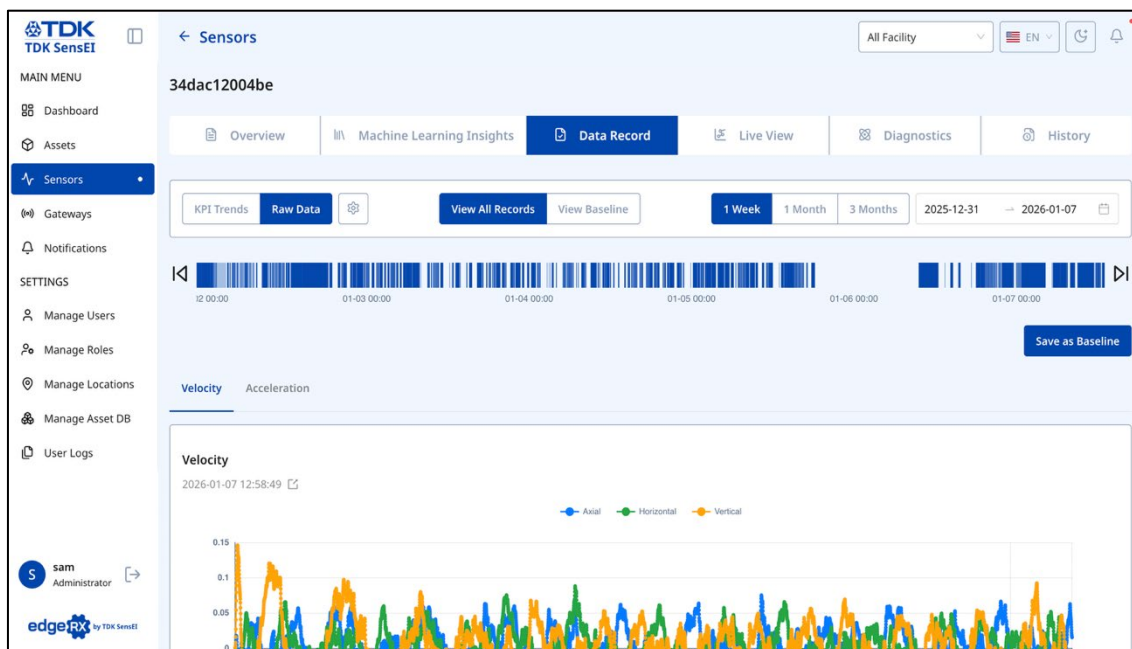


Figure 72: Sensor Raw Data Velocity

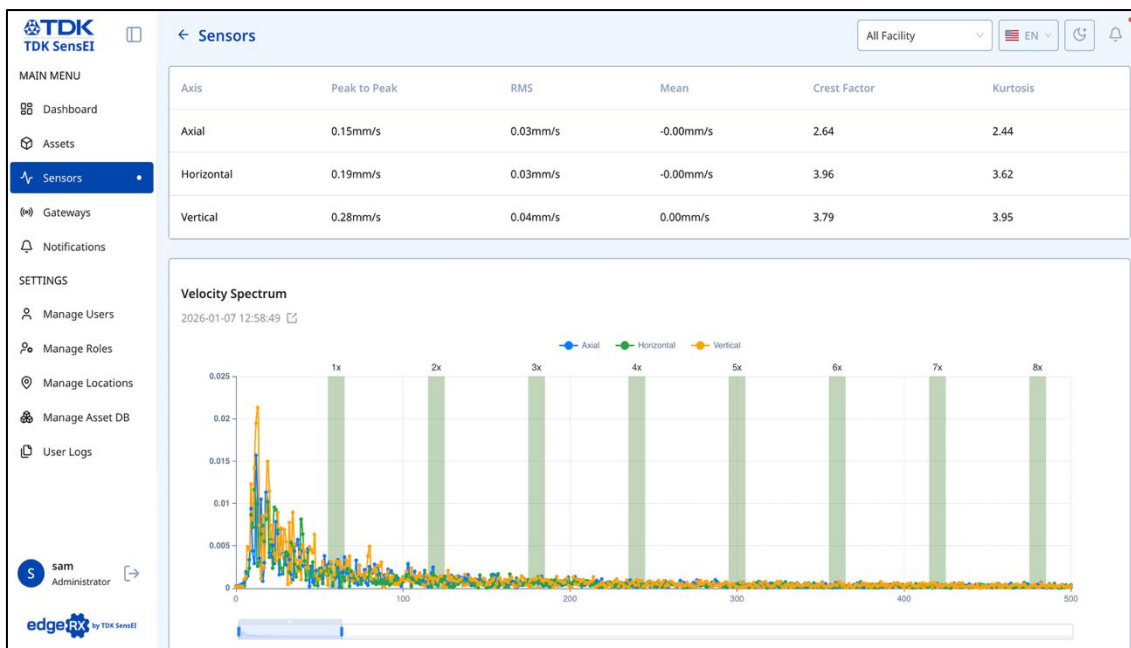


Figure 73: Sensor Raw Data Velocity Spectrum

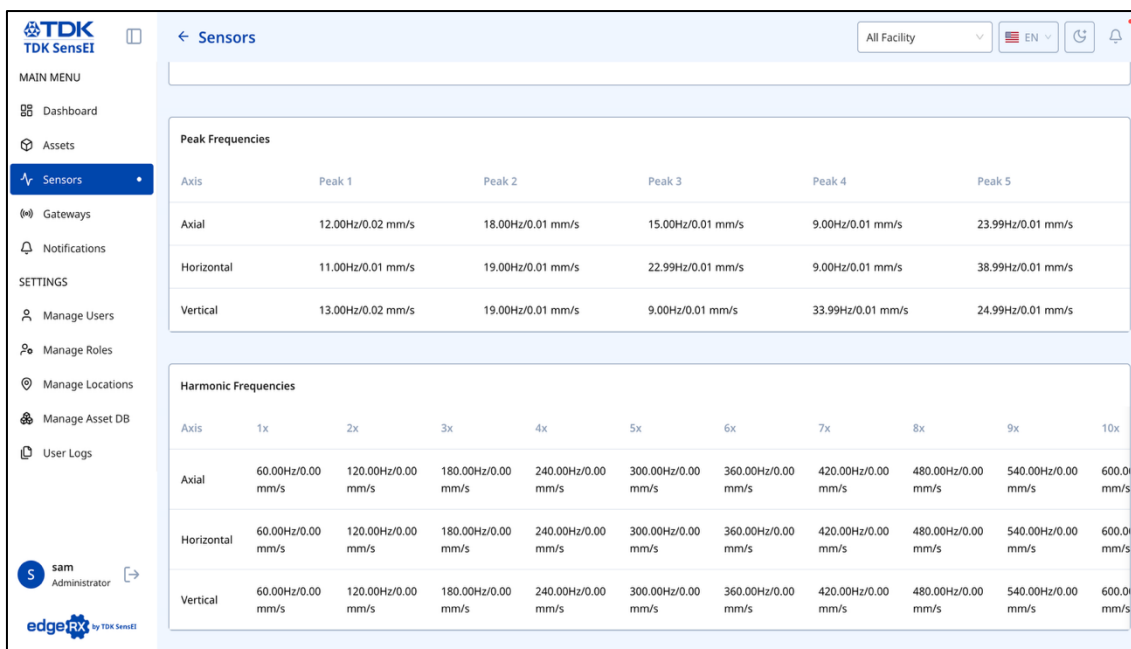


Figure 74: Sensor Raw Data Peak and Harmonic Frequencies

Acceleration Sub-tab

View:

- Acceleration Chart
- Data table with Acceleration details
- Acceleration Envelope Spectrum Chart
- Peak Frequencies
- Envelope Analysis results chart
- Bearing Frequencies

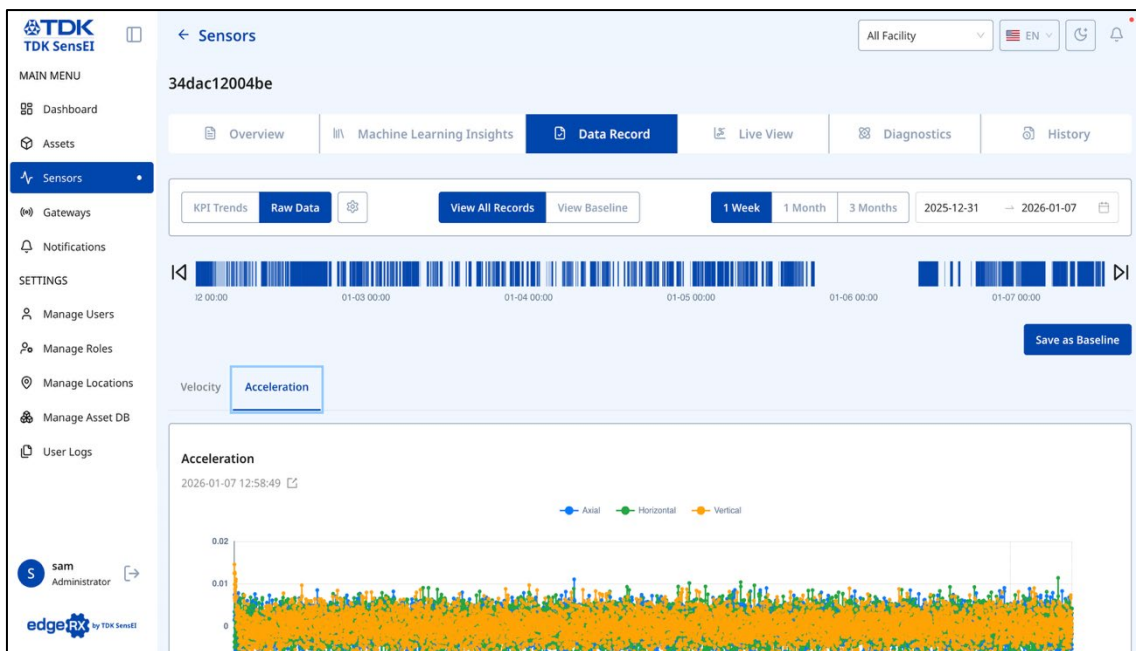


Figure 75: Sensor Raw Data Acceleration

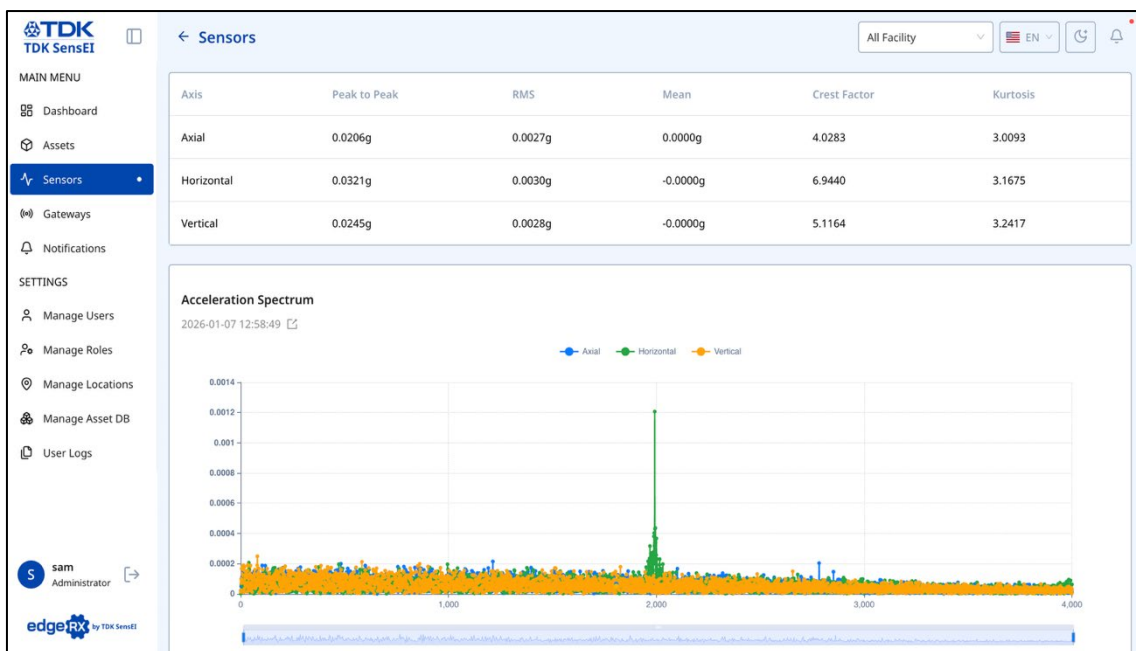


Figure 76: Sensor Raw Data Acceleration Spectrum

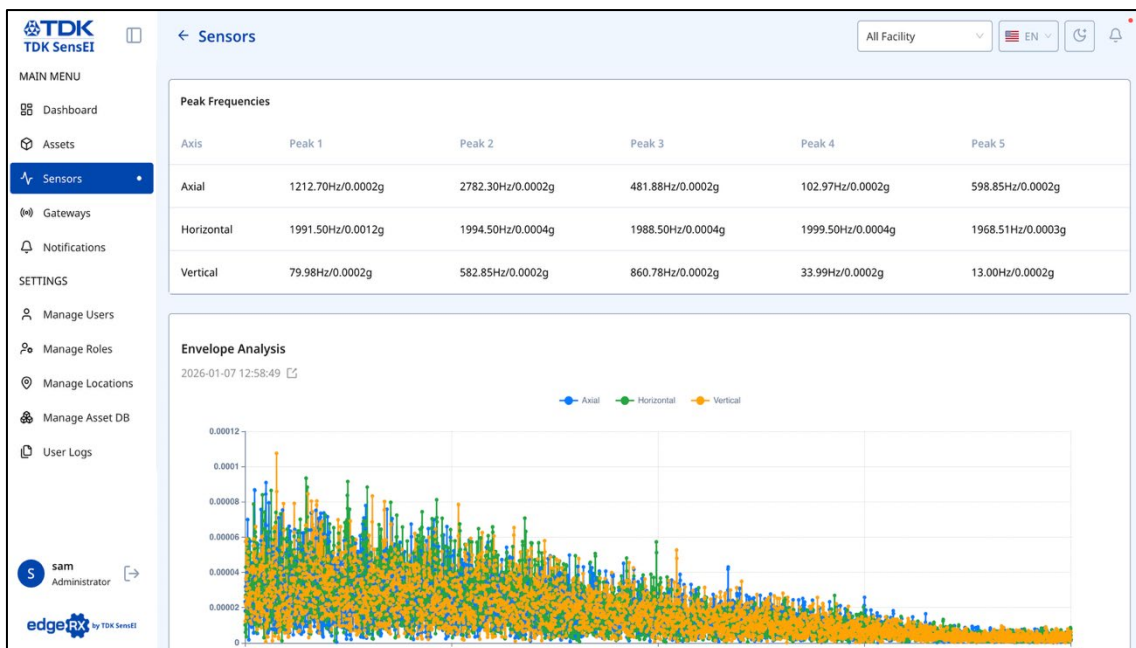


Figure 77: Sensor Raw Data Envelop Analysis

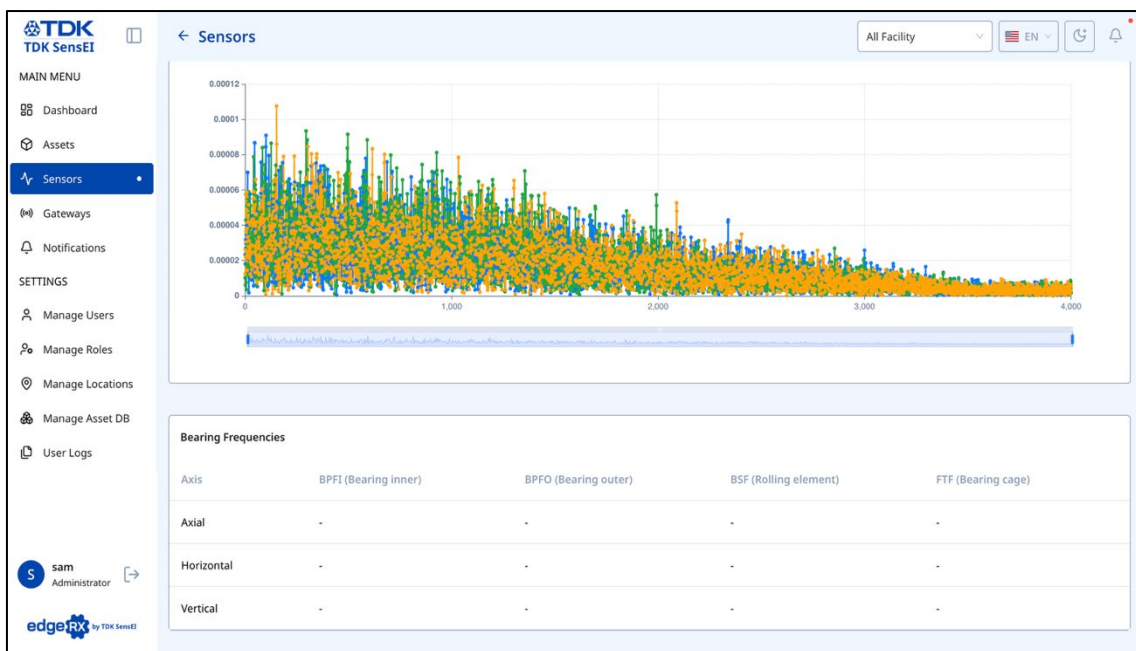


Figure 78: Sensor Raw Data Bearing Frequencies

9.1.3 Exporting Data

Each chart includes an **"Export"** button to download data in **CSV format**.

To export:

1. Navigate to the desired chart (KPI Trend or Raw Data).
2. Click the **"Export"** button.
3. The data will be downloaded as a CSV file.

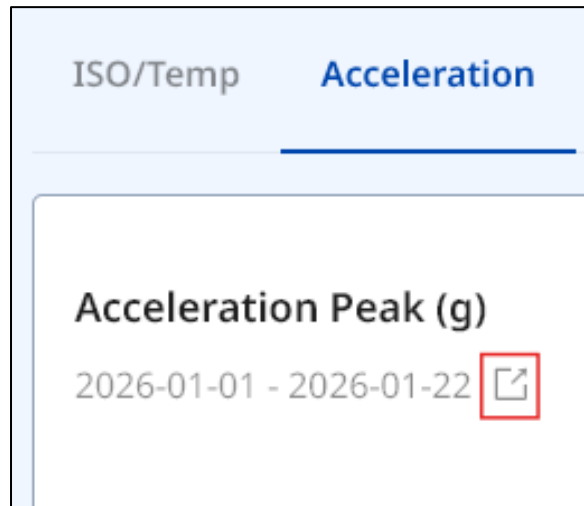


Figure 79: Graph Export Button

9.2 ISO-Based Results

ISO standards provide vibration thresholds for machinery condition monitoring.

9.2.1 Understanding ISO Standards

ISO vibration standards define acceptable vibration levels for rotating machinery based on:

- Machine type
- Operating speed
- Mounting configuration

9.2.2 Viewing ISO Results

ISO-based results are displayed in the **KPI Trend > ISO/Temp** sub-tab (see [Section 9.1.1](#)).

The system compares measured vibration levels against configured ISO thresholds to determine asset health status

9.2.3 Configuring ISO Standards

For information on configuring ISO standards and thresholds, see [Section 11.4](#).

9.3 Live View

Navigate to **Sensor Detail View > Live View Tab** to monitor real-time acceleration waveforms across vertical, axial, and horizontal axes. Connection status is displayed in real time.

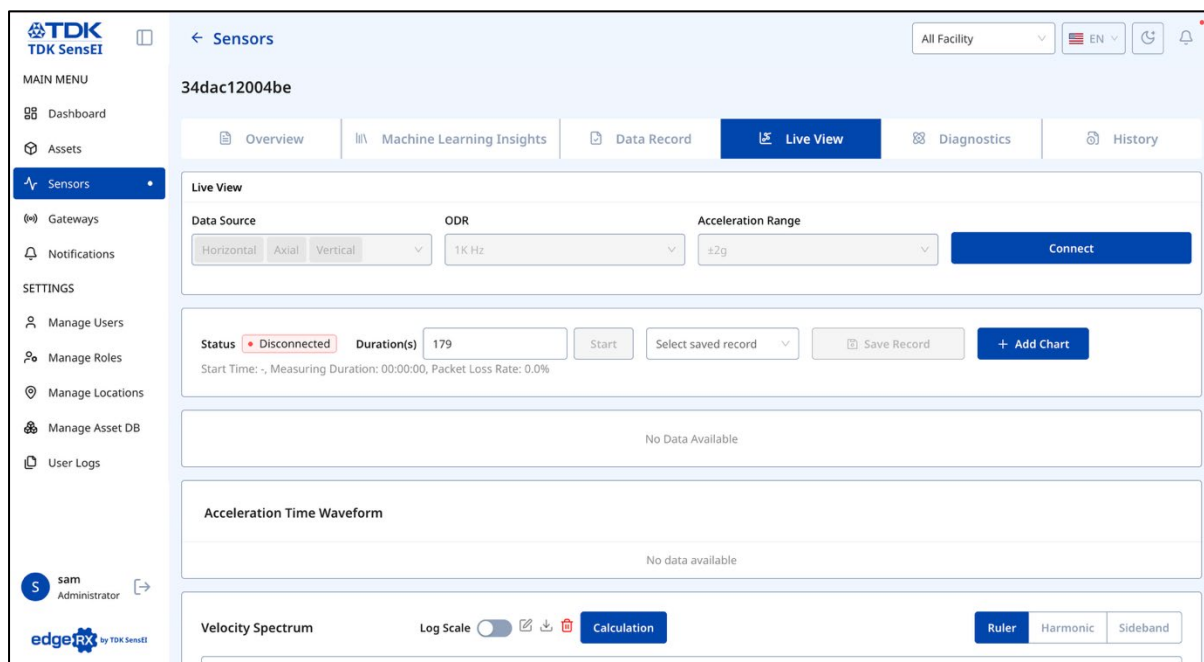


Figure 80: Sensor Live View

Adding Charts

To add a new chart:

1. Click **"Add Chart"**.
2. Configure chart parameters:

Parameter	Description
Chart type	Select visualization type
Band pass filter	Configure frequency filtering
Frame Size	Set data frame size
FFT window type	Select FFT window function
Number of average	Set averaging samples

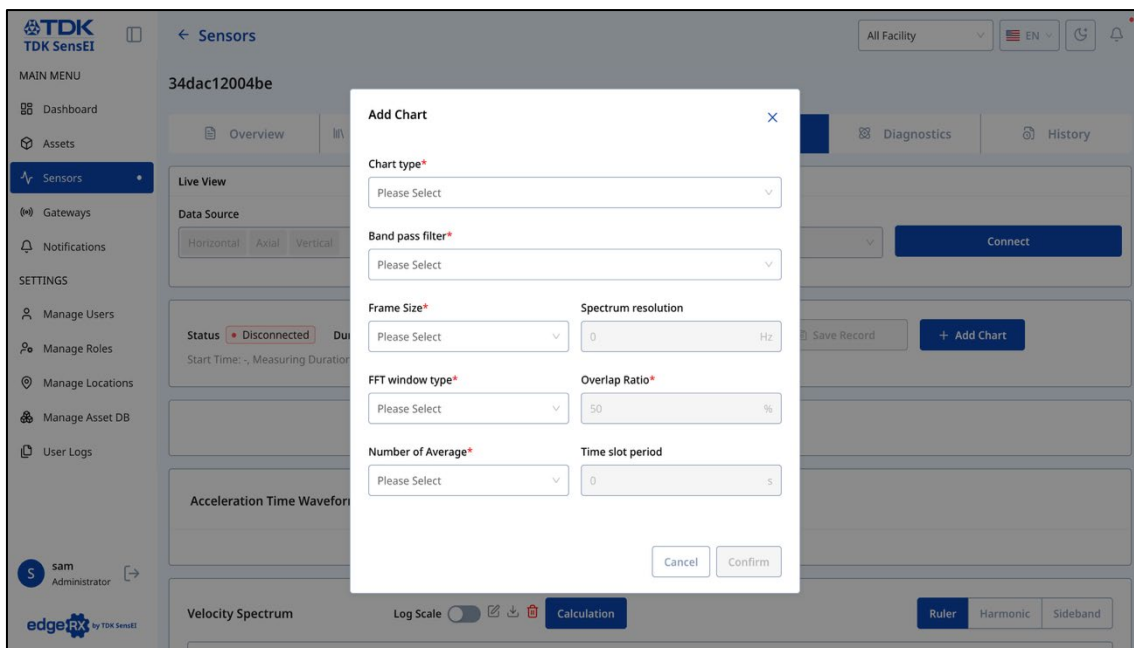


Figure 81: Live View Add Chart

3. Click "**Confirm**" to add the chart.
4. Clicking "**Cancel**" will terminate the action and the chart will not be added.

⚠ **Note:** Multiple charts can be added for comparative analysis.

10. Notifications & Alerts

10.1 Notification Types

Log into the edgeRX™ Platform using your authorised credentials, then navigate to **Notifications** page.

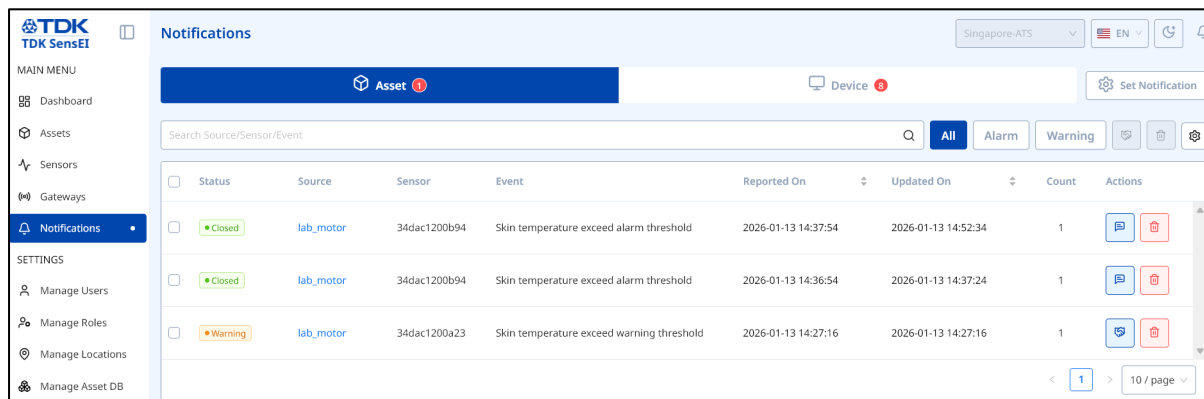


Figure 82: Notifications Tab

The Notifications page has two tabs:

10.1.1 Asset Tab

View the list of alarm, warning, and ML notifications from assets.

Search Capabilities:

- Source
- Sensor
- Event

10.1.2 Device Tab

View the list of notifications from Sensors & Gateways regarding offline/online status.

Search Capabilities:

- Device ID
- Event

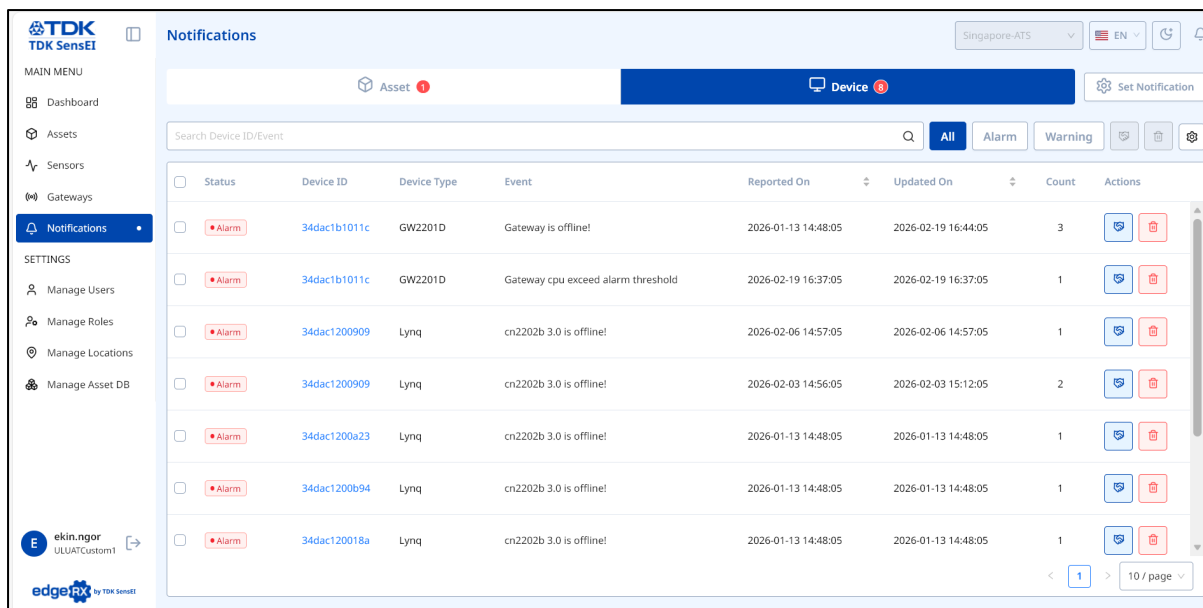


Figure 83: Notifications Tab Device

10.2 Managing Notifications

10.2.1 Acknowledge a Notification

1. Click the **"Acknowledge"** (handshake) icon.
2. Add a comment in the field provided (optional).
3. Click **"Confirm"** to acknowledge the notification.
4. Clicking **"Cancel"** terminates the action.

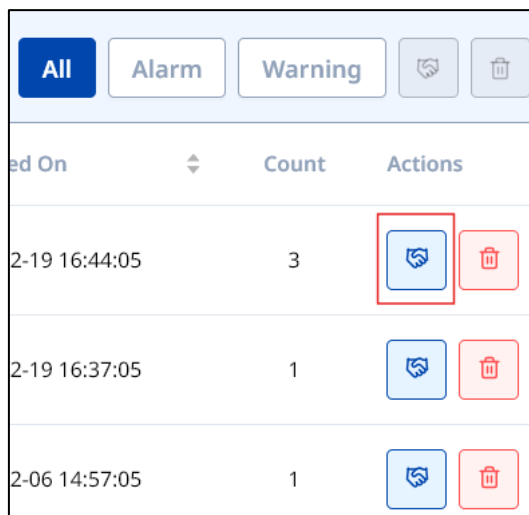


Figure 84: Acknowledge Icon

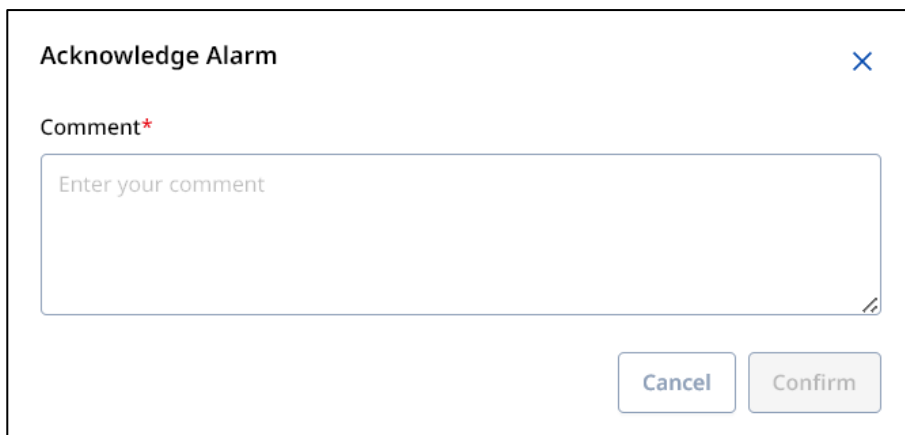


Figure 85: Acknowledging Alarm Modal

10.2.2 Delete a Notification

1. Click the "**Delete**" (trash) icon.
2. Click "**Confirm**" to delete the notification.
3. Clicking "**Cancel**" will stop the action and the notification will not be deleted.

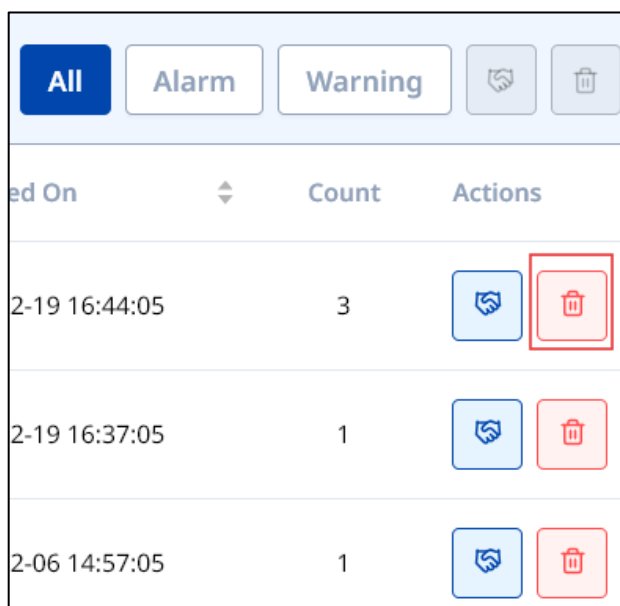


Figure 86: Delete Icon

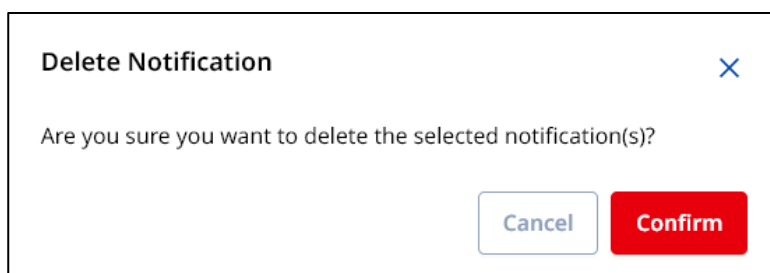


Figure 87: Deleting Alert Modal

10.2.3 Bulk Actions

To acknowledge or delete notifications in bulk:

1. Select multiple notifications using the checkboxes.
2. Click the **"Acknowledge"** or **"Delete"** icons on the top right.
3. The count of selected notifications is shown as badges on the icons.

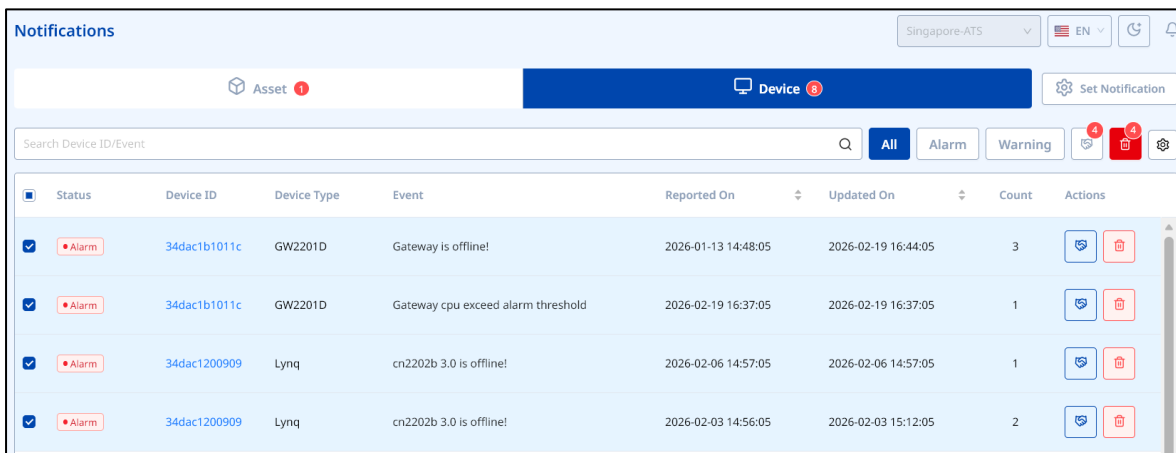


Figure 88: Batch Selection

10.3 Notification Filters

Notifications can be toggled between the following filters:

- **All** – Show all notifications
- **Alarm** – Show only alarm notifications
- **Warning** – Show only warning notifications

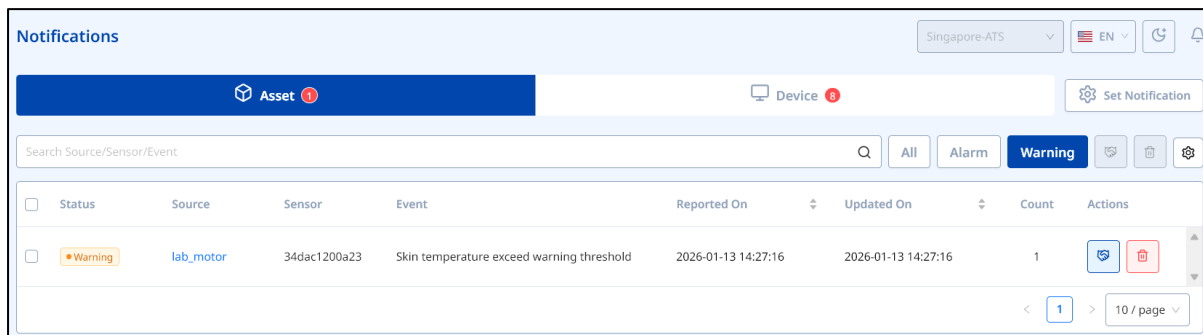


Figure 89: Filter Selection

10.4 Email & Mobile Push Notifications

To receive notifications via email or mobile push:

1. Click the **"Manage Notifications"** button.
2. Enable the desired toggles:
 - Asset Alarm
 - Asset Warning
 - Device Offline

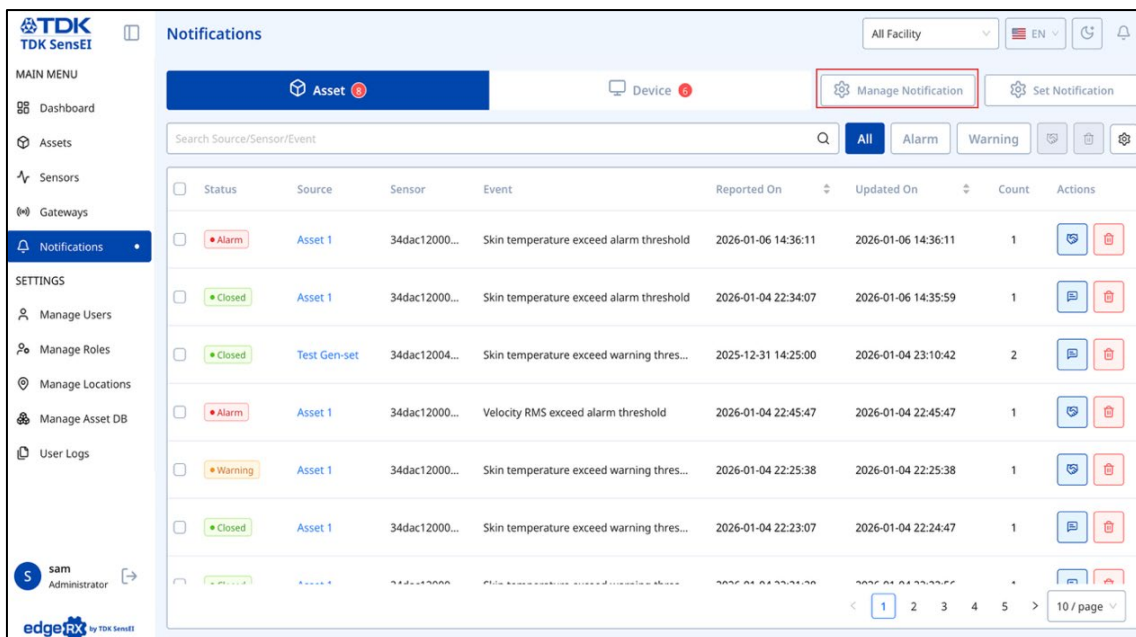


Figure 90: Manage Notifications Entry Point

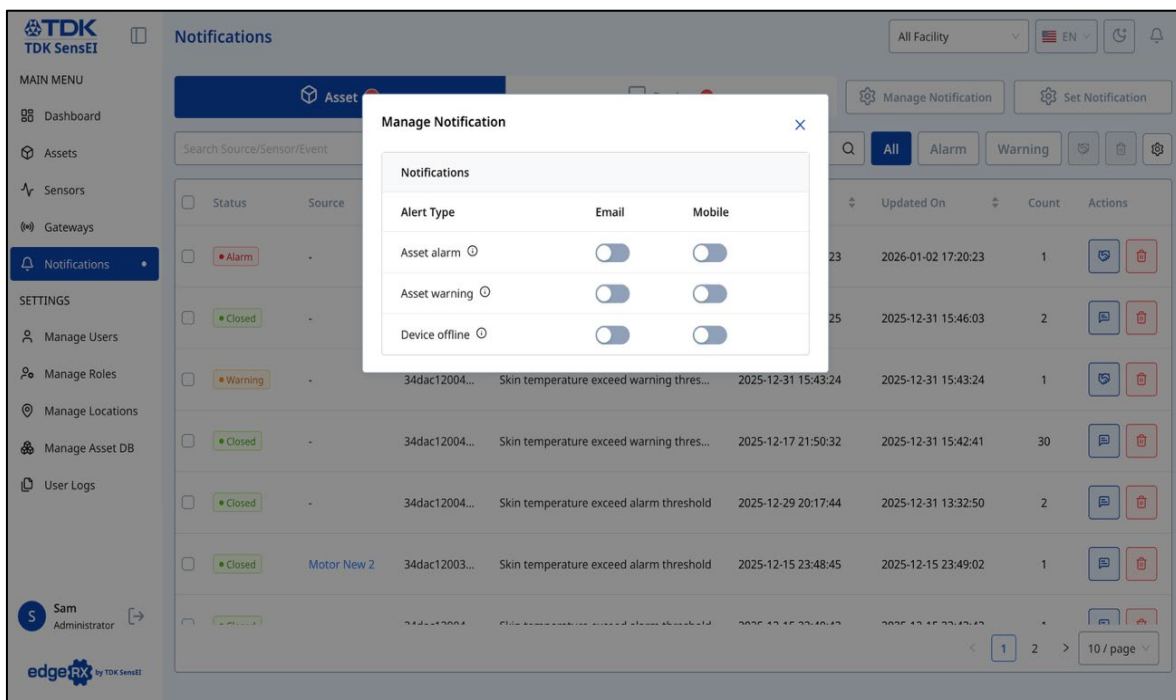


Figure 91: Manage Notifications Modal

Notifications will be sent to your registered email address and/or mobile device.

10.5 Setting Warning/Alarm Thresholds

The **"Set Notification"** button allows users to set Warning and Alarm Thresholds for parameters of Sensors and Gateways.

To configure thresholds:

1. Click **"Set Notification"**.
2. Select the device (Sensor or Gateway).
3. Configure the threshold values for relevant parameters.
4. Click **"Save"** to apply changes.

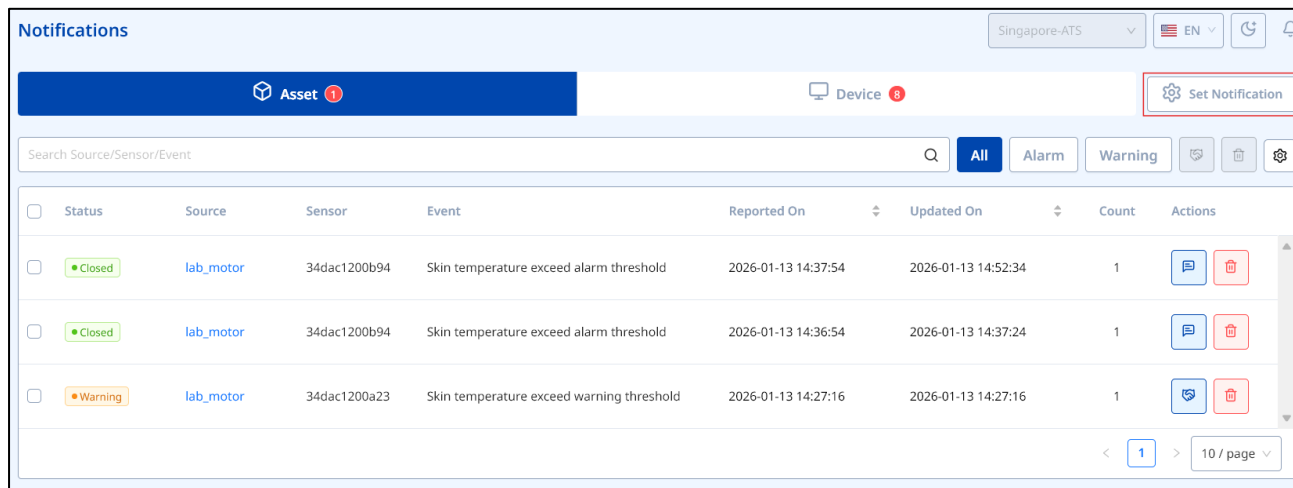


Figure 92: Set Notifications Entry Point



Figure 93: Set Notifications Modal

10.6 Notification Table Features

The Notifications table provides a searchable, paginated view of all notifications.

Feature	Description
Search Bar	Find notifications from Assets and Devices
Rows per Page	Adjust display (dropdown in bottom right corner)
Column Settings	Customize visible columns (Gear option on top right corner)

The screenshot shows the 'Notifications' table in a web application. At the top, there are filters for 'Singapore-ATS', 'EN', and a refresh icon. Below the filters, there are tabs for 'Asset' (with a red notification icon) and 'Device' (with a red notification icon). A search bar is present with the placeholder text 'Search Source/Sensor/Event'. The table has columns for 'Status', 'Source', 'Sensor', 'Event', 'Reported On', and 'Updated On'. A 'Column Display' menu is open on the right, showing a list of columns with checkboxes: Status, Source, Sensor, Event, Reported..., Updated..., Count, and Actions. The 'Count' checkbox is currently unchecked. At the bottom right, there is a pagination control showing '1 / page'.

Figure 94: Notifications Column Display

11. Configuring Settings

Log into the edgeRX™ Platform using your authorized credentials, then navigate to **Settings** to manage system-wide configurations including location hierarchy, asset specifications, fault databases, and ISO standards.

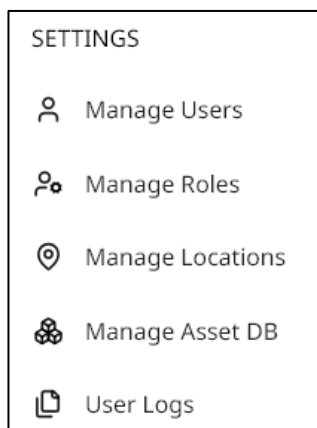


Figure 95: Menu Bar

11.1 Location Hierarchy

Navigate to **Settings > Manage Locations** to view the hierarchical layout of Sites, Buildings, Floors, and Rooms.

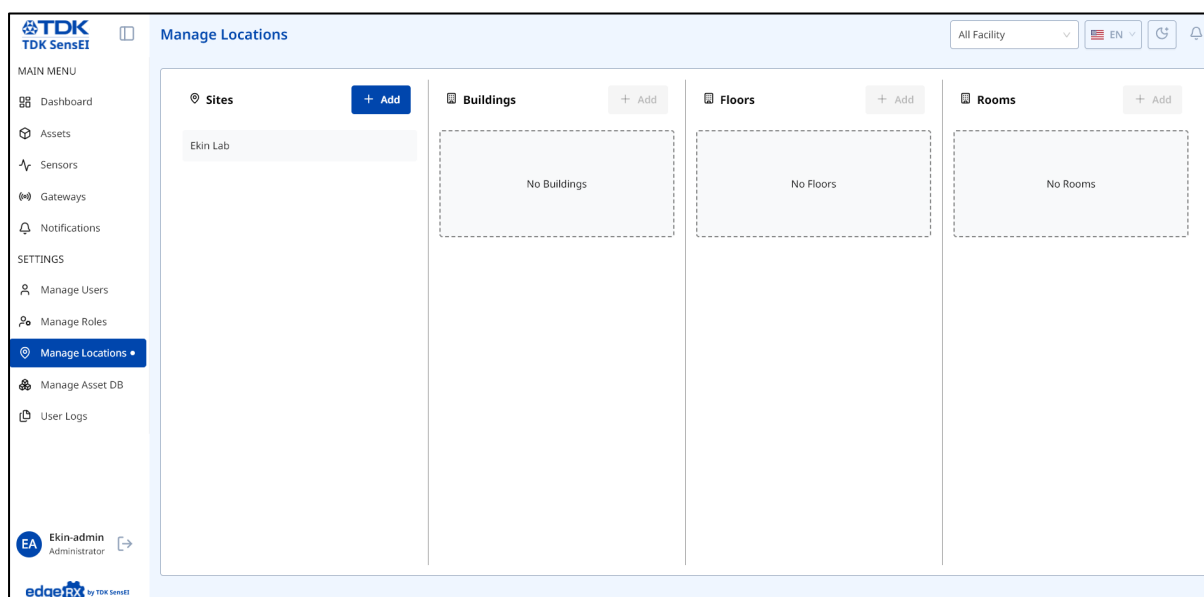


Figure 96: Manage Locations

Hierarchy Structure:

Site → Building → Floor → Room

Boxes labelled with names will be visible on the screen.

11.1.1 Adding a Site

1. Click **"Add"** to create a new site.
2. Enter the following details:

Field	Description
Site Name	Name of the site
Site Map	Upload a site map image

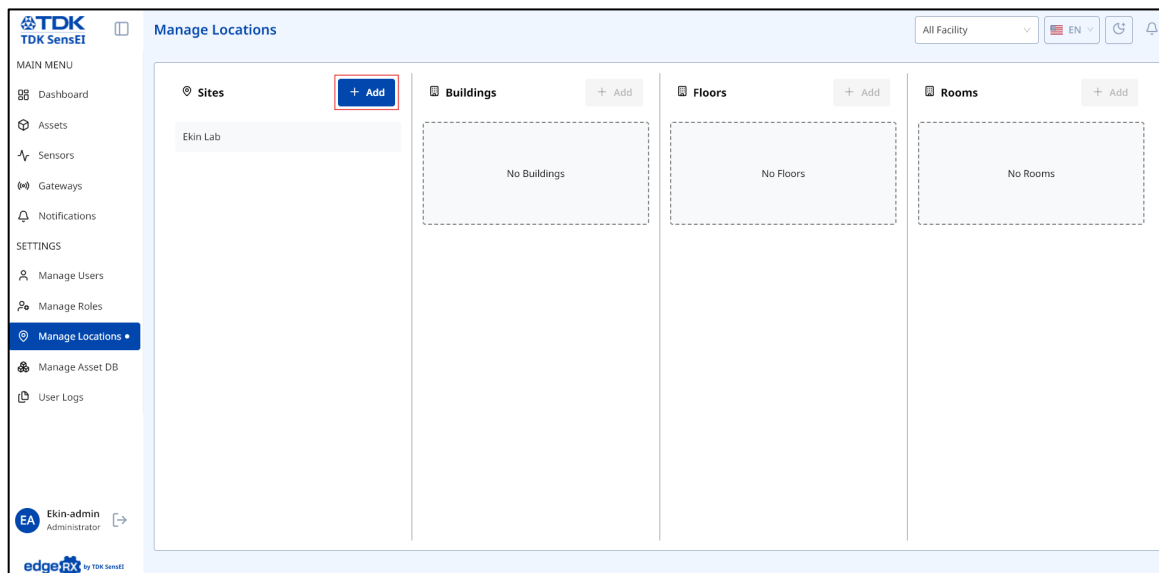


Figure 97: Add Site

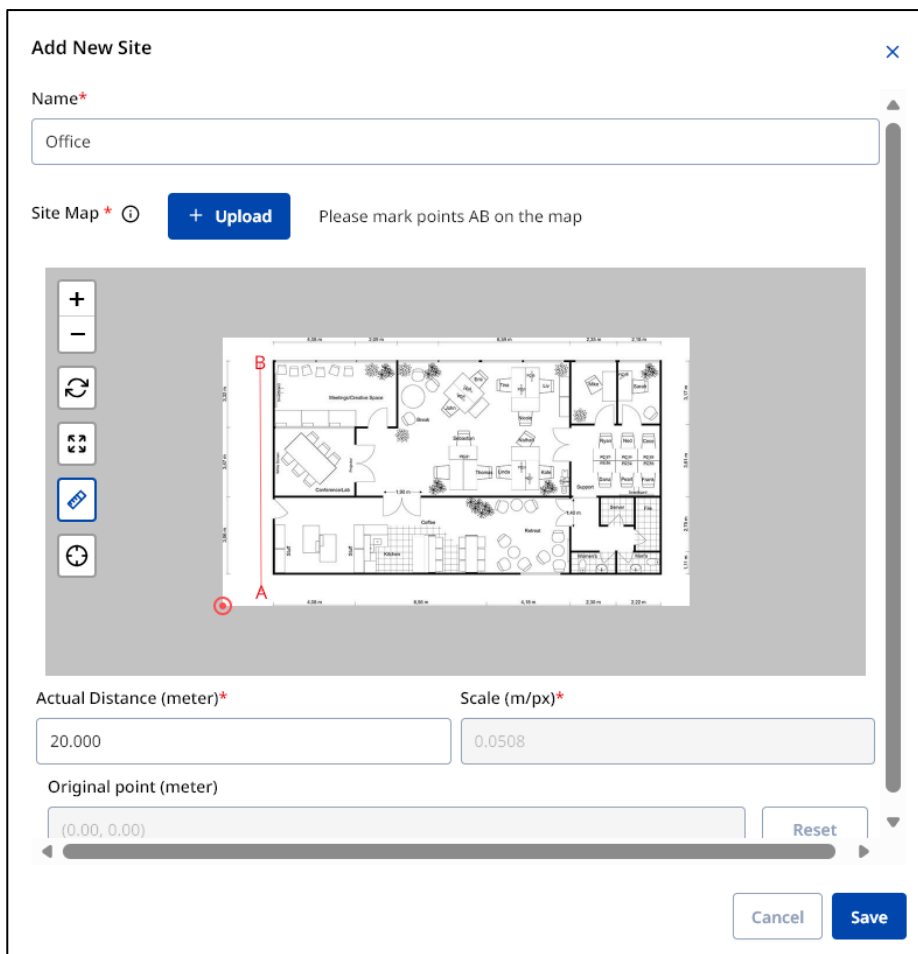


Figure 98: Add Site Modal

3. Click on 2 separate points to mark A and B
4. Enter the Actual Distance in meters.
5. Click "**Save**" to add the Site.

11.1.2 Managing Existing Locations

Use the following controls to manage Sites, Buildings, Floors, and Rooms:

Control	Action
Edit	Click the "Edit" icon, update Name/Image/Actual Distance, click "Save"
Delete	Click the "Delete" icon and confirm the action
Preview	Click the "Preview" (eye) icon to view location on map
Reorder	Use "Up" and "Down" arrow controls

⚠ Note: These controls behave the same for Sites, Buildings, Floors, and Rooms.

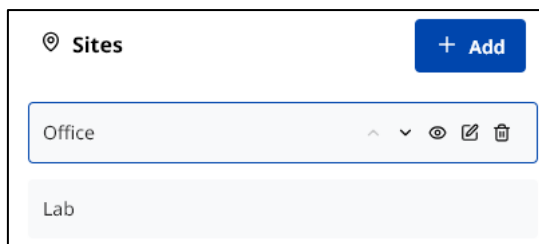


Figure 99: Site Controls

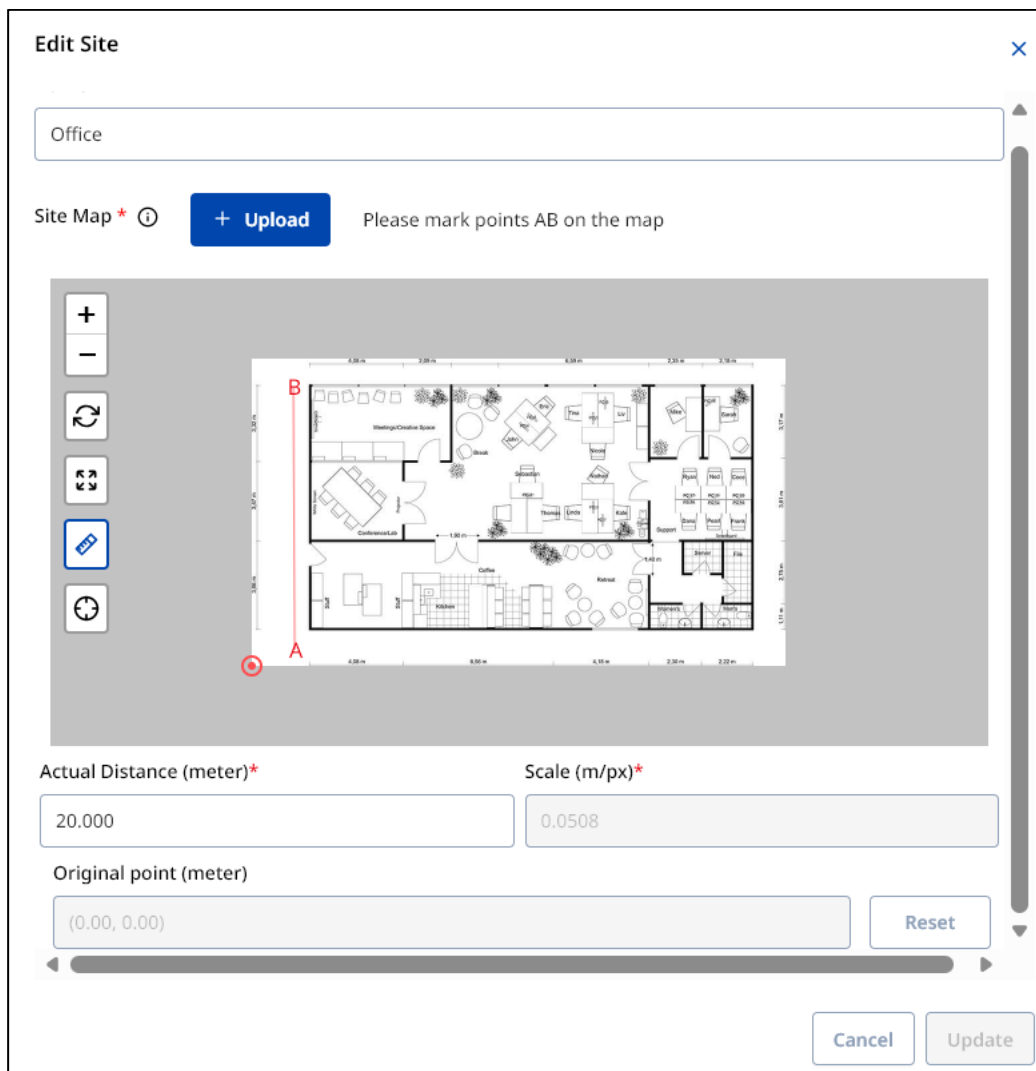


Figure 100: Edit Site Map



Figure 101: Delete Site Modal

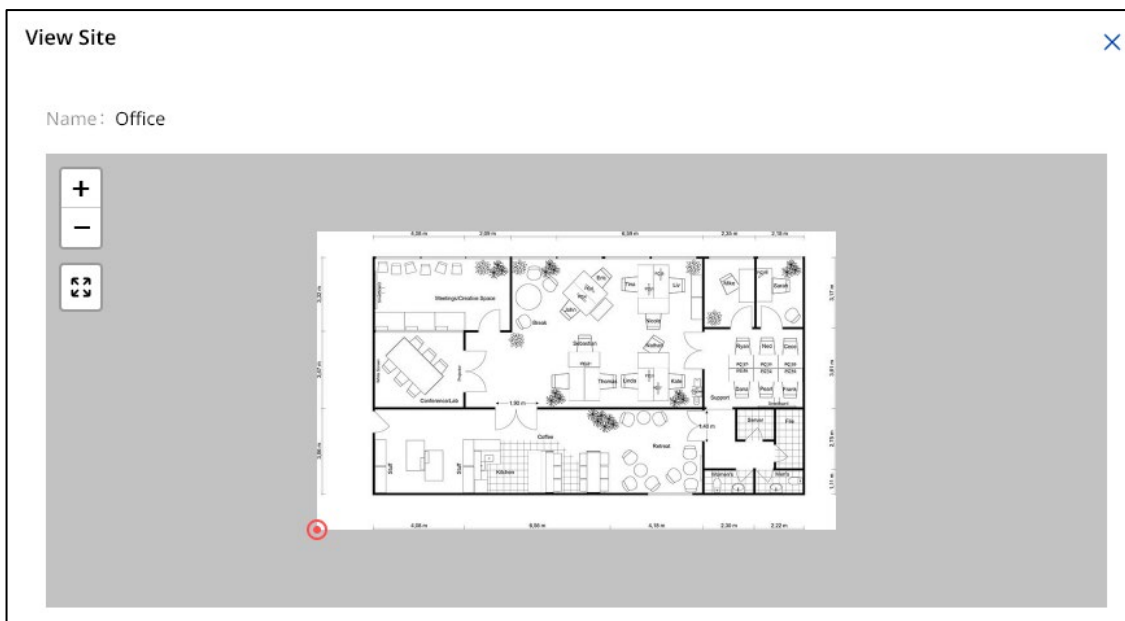


Figure 102: Preview Site

11.1.3 Adding a Building

1. Click **"Add"** button in the Buildings box.
2. Enter the Building Name.
3. Click on the image to generate at least 3 points.
4. Click **"Save"** to add the Building.

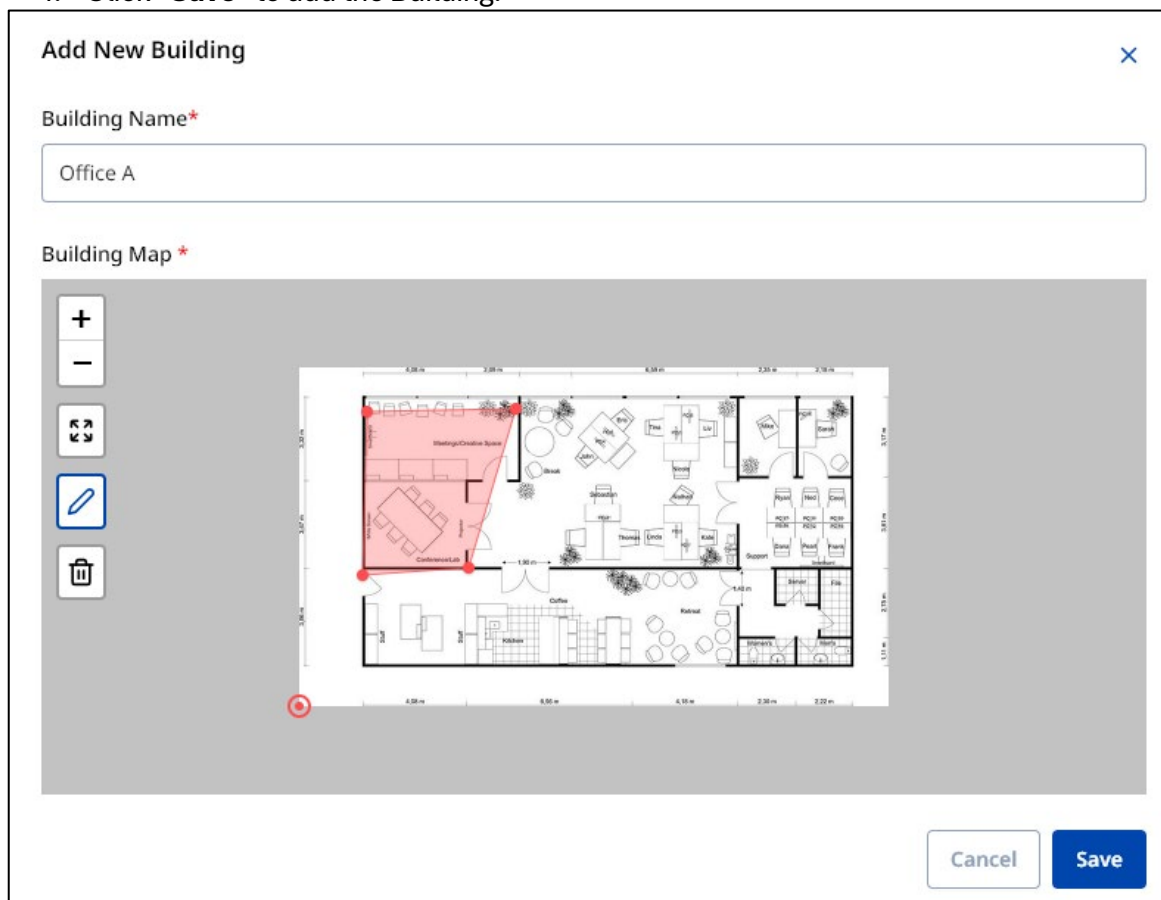


Figure 103: Add Building Modal

11.1.4 Adding a Floor

1. Click **"Add"** button in the Floors box.
2. Enter the Floor Name.
3. Upload a Site Map.
4. Click **"Save"** to add a Floor.
5. Click on 2 separate points to mark A and B
6. Enter the Actual Distance in meters.

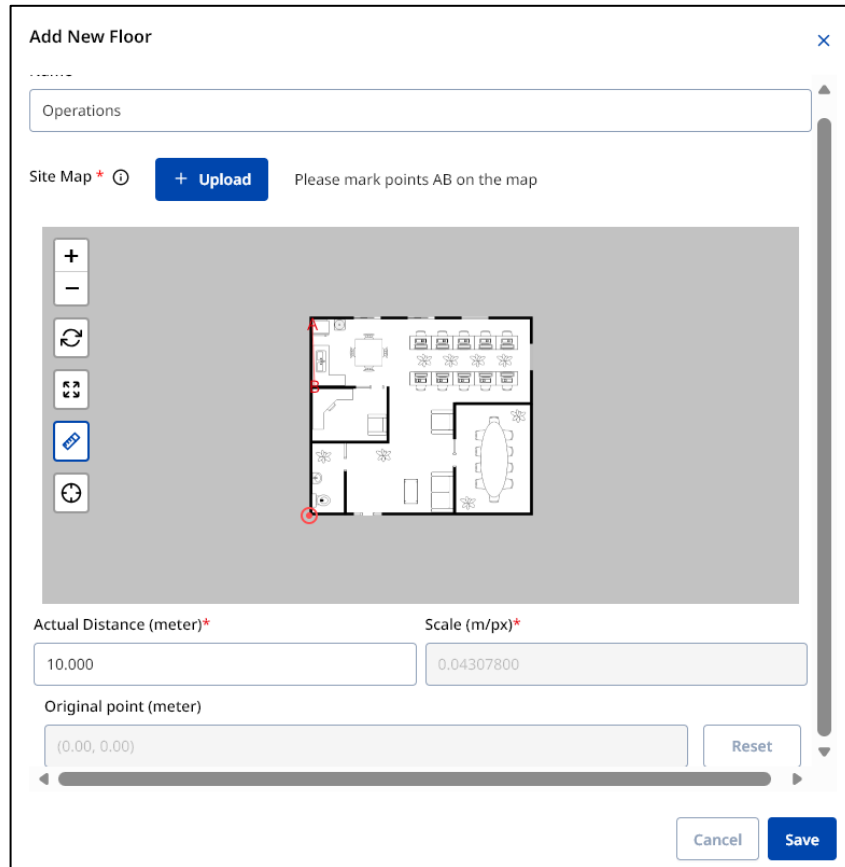


Figure 104: Add Floor Modal

11.1.5 Adding a Room

1. Click **"Add"** button in the Rooms box.
2. Enter Room Name and Room Color.
3. Click on the image to generate at least 3 points.
4. Click **"Save"** to add a Room.

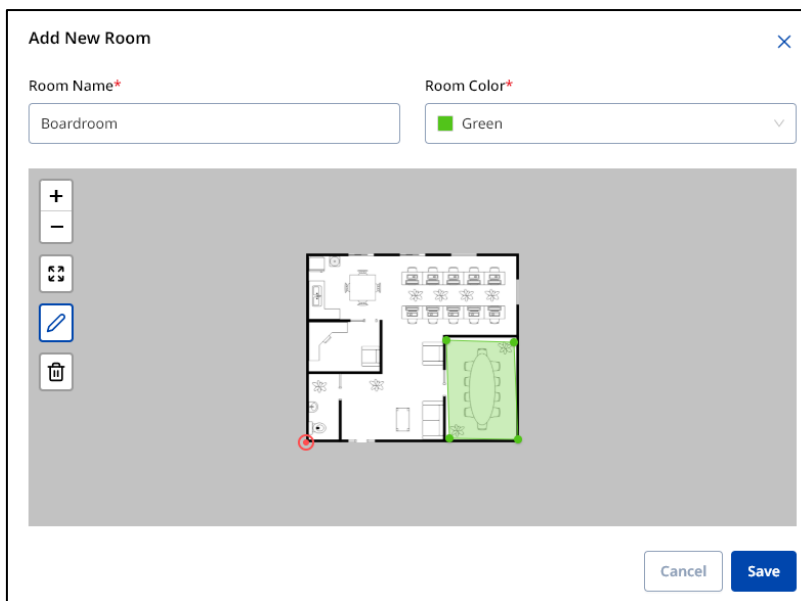


Figure 105: Add Room Modal

11.1.6 Map Toolbar

Use the Map Toolbar to interactively manage the layout:

- **Zoom** – Zoom in/out of the map
- **Reset** – Reset map to default view
- **Scaling (AB points)** – Set scale reference points
- **Origin adjustment** – Adjust map origin
- **Layout reset** – Reset layout to default

11.2 Manage Asset DB / Asset Types

Navigate to **Settings > Manage Asset DB > Asset type** to view and configure asset types.

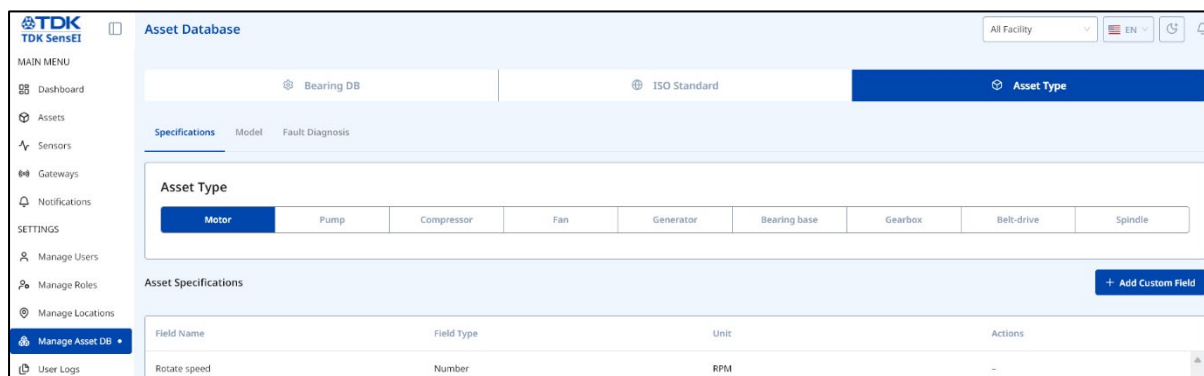


Figure 106: Manage Asset Type

11.2.1 Adding a Custom Field

1. Click the **"+ Add Custom Field"** button.
2. Enter the following details:

Field	Description
Field Name	Name of the custom field
Field Type	Data type (text, number, etc.)
Unit	Unit of measurement (if applicable)

Figure 107: Custom Field

3. Click **"Add"** to create the custom field.

11.2.2 Adding an Asset Model

1. Click **"Add Model"** to input specifications for a selected asset type.
2. Enter the following:

Field	Description
Asset Model Name	Name of the model
Rotate Speed (RPM)	Rotational speed in RPM
DE Bearing	Drive-end bearing specification
Num of Impeller	Number of impellers
Voltage (V)	Operating voltage
Current (A)	Operating current

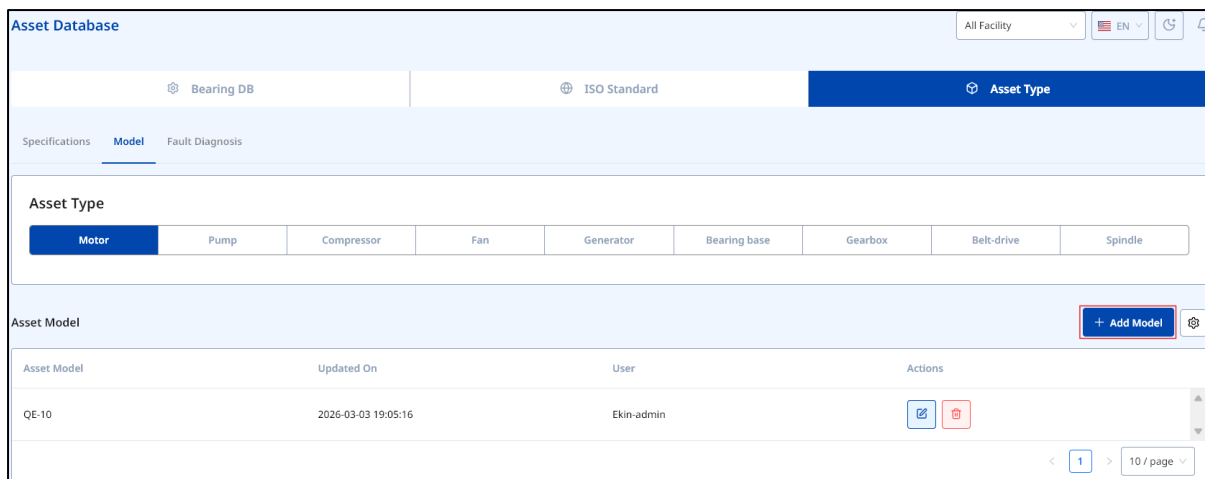


Figure 108: Asset DB Asset Type

Add Model ✕

Asset Model Name*

Rotate speed (RPM)

Power (kW)

DE bearing*

Line Frequency (Hz)

Num of poles

Voltage (V)

Current (A)

Figure 109: Add Asset Modal

3. Click "**Confirm**" to add the Model.

11.2.3 Managing Asset Models

You can view all models under each type and use the **Edit** or **Delete** links to manage them.

Sensor location values can also be added, edited, or deleted dynamically to define exact placement points.

11.3 Bearing DB

Navigate to **Settings > Bearing DB** to view, add, edit, or delete fault entries.



Figure 110: Asset DB Bearing

11.3.1 Adding Bearing Fault Data

1. Click **"Add"** to input new bearing fault frequency.
2. Enter the following:

Field	Description
Bearing type	Type/model of bearing
Number of balls	Number of rolling elements
FTF_60RPM	Fundamental Train Frequency at 60 RPM
BSF_60RPM	Ball Spin Frequency at 60 RPM
BPFO_60RPM	Ball Pass Frequency Outer race at 60 RPM
BPFI_60RPM	Ball Pass Frequency Inner race at 60 RPM

Figure 111: Add Bearing Modal

3. Click "**Save**" to add the bearing fault data.

11.3.2 Editing Bearing Fault Data

1. Click the "**Edit**" icon from the actions column.
2. Update the fault frequency values.
3. Click "**Confirm**" to save changes.
4. Clicking "**Cancel**" will terminate the edit action.

11.3.3 Deleting Bearing Fault Data

1. Click the "**Delete**" icon from the actions column.
2. Click "**Confirm**" to delete the bearing.
3. Clicking "**Cancel**" will terminate the delete action.

11.3.4 Bulk Upload Bearing Faults

To bulk upload bearing faults:

1. Click the "**Import**" button.
2. Download the template file.
3. Complete the template offline with your bearing data.
4. Upload the completed file back into the system.

Import Bearing List ✕

1. Download Template

Get the bearing template and fill in your data following the provided instructions.

[↓ Download Template](#)

2. Upload the completed file

↑

Click to upload or drag and drop

Supports .xlsx files only (Max: 10MB)

Cancel
Preview

Figure 112: Bearing List Upload

11.4 ISO Standards

Navigate to **Settings > ISO Standards** to view and configure vibration thresholds.

Asset Database				
Bearing DB		ISO Standard		Asset Type
ISO Standard	Description	Warning threshold	Alarm threshold	Actions
ISO10816-3/Group 1/Rigid	300KW-50MW,rigid mounted	4.5 mm/s	7.1 mm/s	-
ISO10816-3/Group 1/Flexible	300KW-50MW,flexible mounted	7.1 mm/s	11 mm/s	-
ISO10816-3/Group 2/Flexible	15KW-300MW,flexible mounted	4.5 mm/s	7.1 mm/s	-
ISO10816-3/Group 2/Rigid	15KW-300MW,rigid mounted	2.8 mm/s	4.5 mm/s	-

Figure 113: ISO Standards

11.4.1 Adding an ISO Standard

1. Click **"Add"** to add an ISO standard.
2. Enter the following:

Field	Description
ISO Standard	ISO standard name/number
Description	Description of the standard
Warning Threshold	Vibration level that triggers warning
Alarm Threshold	Vibration level that triggers alarm

Figure 114: ISO Standard Modal

3. Click **"Save"** to add the ISO standard.

11.4.2 Editing an ISO Standard

1. Click the **"Edit"** icon from the actions column.
2. Update the standard details.
3. Click **"Confirm"** to save the edited changes.
4. Clicking **"Cancel"** will terminate the edit action.

11.4.3 Deleting an ISO Standard

1. Click the **"Delete"** icon from the actions column.
2. Click **"Confirm"** to delete the ISO standard.

11.5 Fault Diagnosis

Navigate to **Settings > Manage Asset DB > Asset Type > Fault Diagnosis** to view a list of predefined fault types for this asset model.

The screenshot shows the 'Asset Database' interface. At the top, there are tabs for 'Bearing DB', 'ISO Standard', and 'Asset Type'. Below these are sub-tabs for 'Specifications', 'Model', and 'Fault Diagnosis'. The 'Asset Type' section has a row of buttons: 'Motor', 'Pump', 'Compressor', 'Fan', 'Generator', 'Bearing base', 'Gearbox', 'Belt-drive', and 'Spindle'. The 'Fault Diagnosis' section contains a table with the following data:

No.	Fault Name	Data Type	Parameter	Description
1	Imbalance	Spectra/Velocity	RPM	Imbalance occurs when the mass distribution of a rotating component is not uniform, causing it to generate centrifugal forces that lead to excessive vibration.
2	Angular misalignment	Spectra/Velocity	RPM	Angular misalignment occurs when shaft centerlines intersect at an incorrect angle, causing axial force vectors and moment loading that accelerate coupling wear.
3	Parallel misalignment	Spectra/Velocity	RPM	Parallel misalignment occurs when shaft centerlines develop offset parallelism, causing radial forces proportional to displacement distance that induce bearing overload.
4	Rolling bearing wear	Spectra/Envelope	Bearing type	Bearing wear occurs when rolling elements experience progressive material loss, causing characteristic vibration patterns and thermal elevation that reduce load capacity.
5	Structural looseness	Spectra/Envelope	RPM	Structural looseness occurs when mechanical joints lose design stiffness,

Figure 115: Fault Diagnosis

This section displays the fault diagnosis categories configured in the system for asset condition monitoring.

12. Troubleshooting

This section covers common dashboard-related issues. For hardware troubleshooting, refer to the respective hardware user manuals (see Section 1.2).

12.1 Sensor Issues

12.1.1 Sensor Appears Offline on Platform

If a sensor shows as offline in the platform:

1. **Ensure sensor was turned on** by checking the on/off switch found in the sensor.
2. **Ensure that the sensor MAC ID was entered successfully** when adding the sensor to the platform.
3. **Ensure that the sensor was successfully bound** to the gateway and the asset.

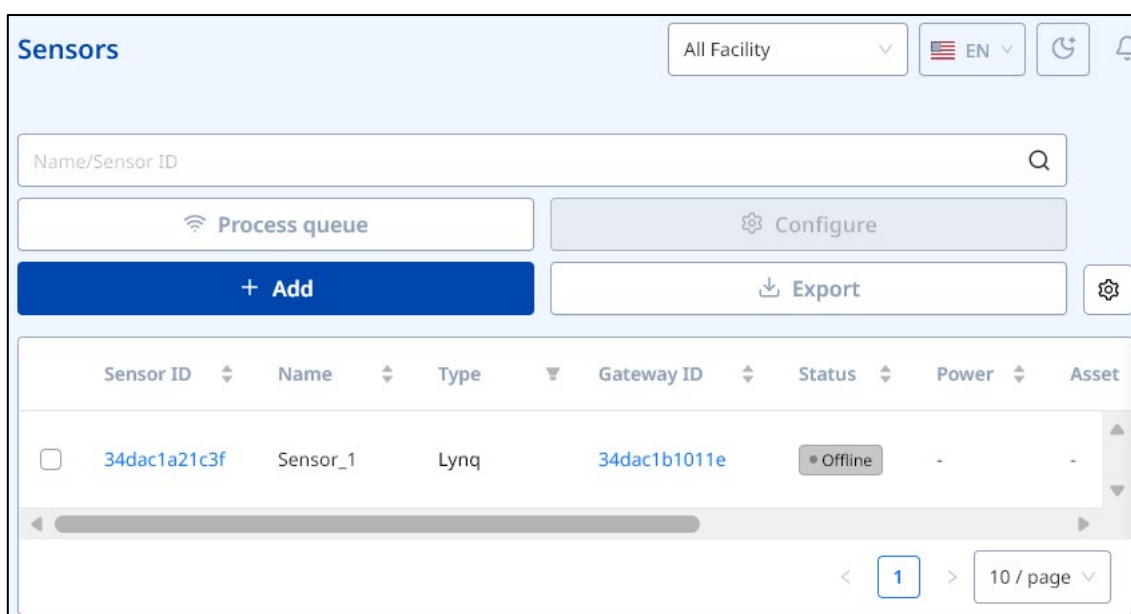


Figure 116: Sensor Offline

If the issue persists after these checks, contact your TDK SenseI representative for assistance.

12.1.2 Sensor LED Indicators

For information about sensor LED indicators and their meanings, please refer to the **edgeRX™ LYNQ Sensor User Manual (SE1111101G-01)**, Section "LED Status & Descriptions."

12.2 Gateway Issues

12.2.1 Gateway Appears Offline on Platform

If a gateway shows as offline in the platform:

1. **Ensure that gateway power supply was attached properly** – Check all power connections.
2. **Ensure that gateway was added to a location successfully** on the platform.

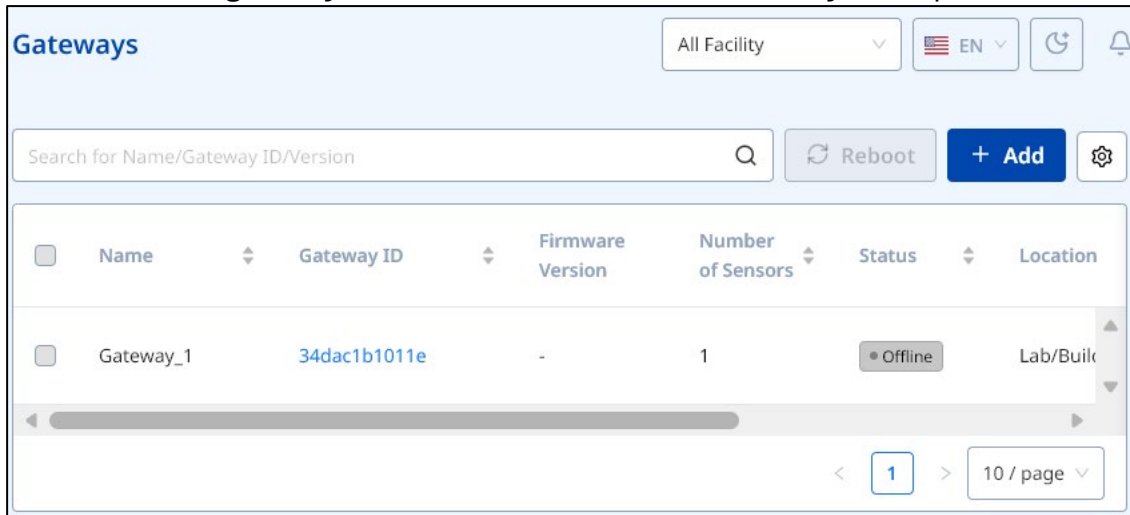


Figure 117: Gateway Offline

If the issue persists after these checks, contact your TDK SenseI representative for assistance.

12.2.2 Gateway LED Indicators

For information about gateway LED indicators and their meanings, please refer to the **edgeRX™ Gateway User Manual (SE5100204G-01)**, Section "LED Status & Descriptions."

12.3 Platform Issues

12.3.1 No Data Appearing on Platform

If sensor data is not appearing on the platform:

1. Verify that sensors are online (see [Section 12.1.1](#)).
2. Verify that gateways are online (see [Section 12.2.1](#)).
3. Check that sensors are properly bound to assets (see Section 6.4).
4. Refresh your browser page.

12.3.2 Widget Appears Inactive or Blank

If widgets on the homepage dashboard appear inactive or blank:

1. Confirm that your gateways and sensors are online.
2. Check your network connection.
3. Verify that you have proper permissions to view the data (see Section 3).
4. Try switching to a different location using the location selector (if available).

12.4 Contacting Support

If any issues persist after following the troubleshooting steps, please contact your local TDK SensEI representative.

When contacting for support, please provide the following:

- User account information
- Description of the issue
- Screenshots (if applicable)
- Steps taken to troubleshoot

Appendix

A. Glossary of Terms

Term	Definition
Asset	A piece of equipment or machinery being monitored by the edgeRX™ system
edgeRX™	TDK SensEI's end-to-end platform for real-time equipment health monitoring
Gateway	Hardware device that collects sensor data and transmits it to the cloud
KPI	Key Performance Indicator – measurable values used to evaluate asset health
ML	Machine Learning – AI algorithms used to analyze sensor data
MFA	Multi-Factor Authentication – security feature requiring multiple verification methods
Sensor	Hardware device that collects vibration and temperature data from assets
ISO	International Organization for Standardization – defines vibration standards
RSSI	Received Signal Strength Indicator – measures wireless signal strength
RPM	Revolutions Per Minute – rotational speed measurement
RMS	Root Mean Square – statistical measure of vibration magnitude
FFT	Fast Fourier Transform – algorithm for frequency analysis

B. Related Documentation

For complete information about the edgeRX™ system, please refer to the following documents:

Document Title	Model Number	Description
edgeRX™ Gateway User Manual	SE5100204G-01	Hardware setup, installation, network configuration, LED indicators, physical troubleshooting
edgeRX™ LYNQ Sensor User Manual	SE1111101G-01	Hardware activation, physical installation, battery information, LED indicators, physical troubleshooting
edgeRX™ Platform User Guide (this document)	-	Software navigation, monitoring, and configuration

These documents can be obtained from your TDK SensEI representative.