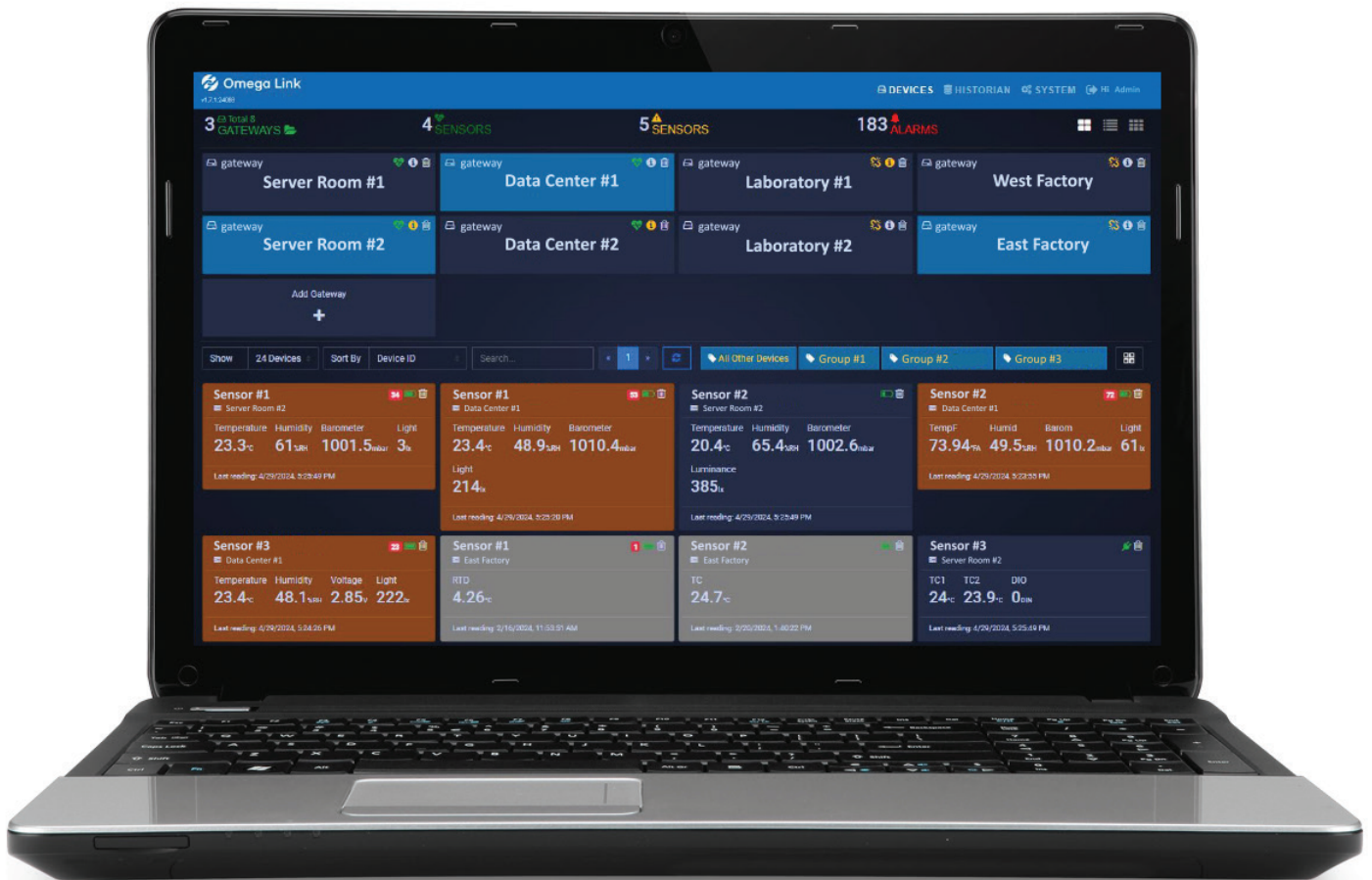


USER'S GUIDE

Omega Link Cloud

User's Manual



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Table of Contents

1. Introduction4

2. Cloud Account User Registration.....4

3. Navigating the Omega Link Cloud User Interface6

3.1. Devices.....6

3.1.1. Registering an Omega Link Gateway to Omega Link Cloud.....7

3.1.2. Management8

3.1.3. Sensor Analytics.....11

3.2. Historian.....13

3.2.1. How to Generate a Historical Data Report13

3.3. System Settings.....17

3.3.1. Profile.....17

3.3.2. Units18

3.3.3. Users18

3.3.4. Subscription.....19

3.3.5. Contact Us.....19

3.4. How to Remove a Paired Smart Sensor from a Gateway.....20

3.4.1. How to Move a Paired Smart Sensor to a Different Omega Link Gateway20

4. User-Defined Sensor Unit of Measurement Conversion w/ Gain & Offset Scaling21

1. Introduction

The Omega Link Cloud provides device management, state and status monitoring, data logging, and analytics on all connected Omega Link Smart Sensing devices and compatible 3rd party sensing devices through a robust web user interface. Accounts can be created and accessed by visiting: <http://cloud.omega.com>. Subscriptions can be purchased by visiting: <https://www.omega.com/en-us/omega-link-cloud>.

2. Cloud Account User Registration

Using any device with a web browser, complete the following steps:

- Step 1: Open your browser to <http://cloud.omega.com>.
- Step 2: Click **Sign Up** and complete the registration process. This will require a valid email address.

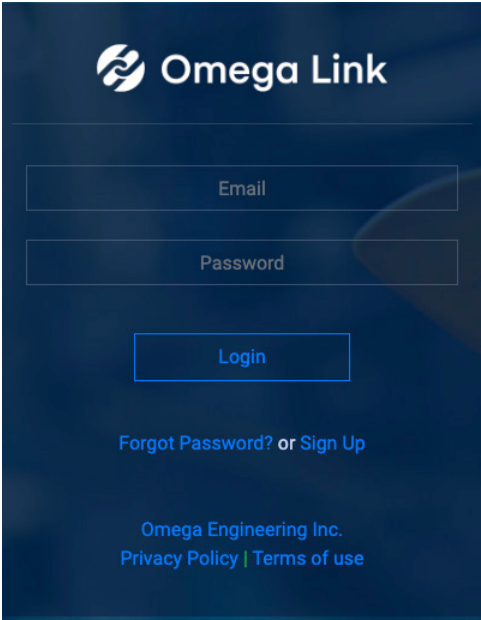
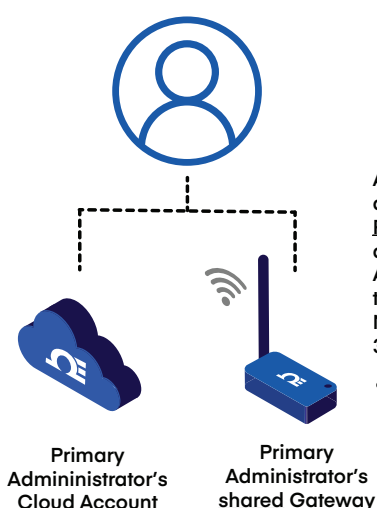
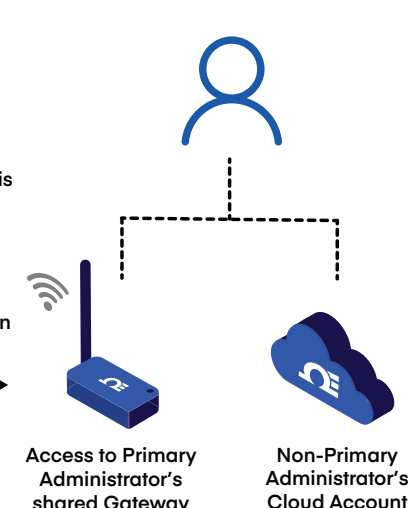

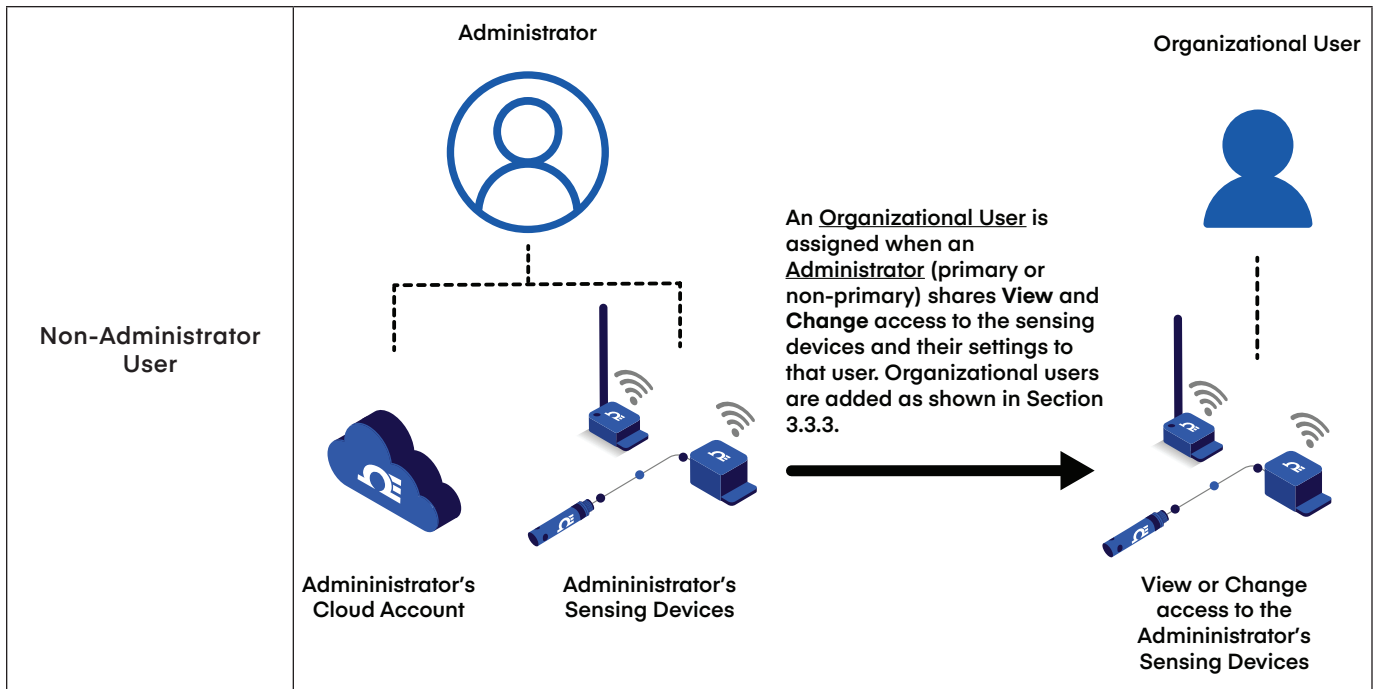


Figure 1: Omega Link Cloud login

Below is a table describing the different kinds of users:

Primary Administrator User	The primary administrator user account is the main account that the Omega Link Gateway is originally registered to.	
Non-Primary Administrator User	<div>Primary Administrator</div> 	<div>Non-Primary Administrator</div> 
	<p>A Non-Primary Administrator is assigned when the Primary Administrator shares access to the Primary Administrator's Gateway through the Device Management button in Section 3.1.2.3.</p> 	



Note

Only administrator users (primary or non-primary) need to register individual Omega Link Cloud accounts. Organizational users do not need to register an Omega Link Cloud account.

If one account will be shared among multiple users in a company/organization, it is highly recommended that access to the email address account be created and shared among all team members who will have primary administrator access in case of organizational changes.

(Ex: omegalinkcloud@yourcompany.com)

Once the user credentials are verified, the user can login to the primary administrator account and will be presented with the Omega Link Cloud homepage. The primary administrator will have the opportunity to register Omega Link Gateways, change subscription tiers, and create additional user accounts.

Important

If multiple Administrator users will be registered under the same company name, it is important that the company name be typed the same way for each admin registration to ensure proper operation when assigning devices.

Figure 2: Administrator Account Sign Up

3. Navigating the Omega Link Cloud User Interface

The primary user interface tabs (**Devices**, **Historian**, and **System**) and their functionality are described in the sections that follow.

3.1. Devices

After signing in, the **Devices** tab immediately presents the readings of all registered Omega Link Gateways and their connected sensing devices. From here, users may access connected gateway details, add additional gateways to the cloud account, monitor device health, and access specific sensor analytics.

The screenshot displays the Omega Link Cloud user interface for the **DEVICES** tab. The interface includes a top navigation bar with tabs for **DEVICES**, **HISTORIAN**, and **SYSTEM**, along with a **Log Out** button and a **Hi Admin** user indicator. Below the navigation bar, a summary section shows **1** Total **2** GATEWAYS, **3** SENSORS, **0** SENSORS (with a warning icon), and **24** ALARMS. A **Primary User Interface Tab** callout points to the **DEVICES** tab. A **Show/Hide Gateway Types** callout points to a dropdown menu. A **Normal Operation Sensors (3 Devices)** callout points to a green heart icon. A **Sensors Need Attention (0 Devices)** callout points to a yellow warning icon. An **Alarm Event Count (24 Alarms)** callout points to a red alarm icon. A **Log Out** callout points to the **Log Out** button. A **View Types** callout points to a grid icon. A **Gateway List** callout points to a list of gateways, including **GW-001-2 Test** and **LTE Test**, with an **Add Gateway** button. A **Filter Devices** callout points to a filter dropdown menu with options like **All Other Devices** and **Test**. A **Device Management** callout points to a grid icon. A **Device Name** callout points to the **R&D Lab SP-004** device name. A **Device Readings** callout points to the **Humidex** reading of **90.5°F**. The main content area displays sensor readings for **Manufacturing Floor SS-002** and **Server Room SS-001**, including **Temperature**, **Humidity**, **Barometer**, and **Light** readings, along with **Last reading** timestamps.

Figure 3: Omega Link Cloud Devices tab

3.1.1. Registering an Omega Link Gateway to Omega Link Cloud

After logging in, follow the steps below to connect an Omega Link Gateway to the Omega Link Cloud.

Step 1: From the Omega Link Cloud Devices homepage, click **Add Gateway**.

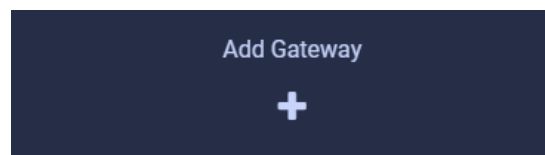


Figure 4: Omega Link Cloud Add Gateway button

Step 2: Type in the **Gateway ID (GID)** from the label on your gateway.

Step 3: Type in the **Registration ID (RID)** from the label on your gateway and click **Register**.

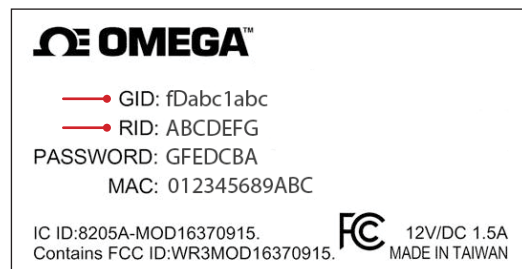




Figure 5: Omega Link Cloud Add Gateway button

Important

The label containing your Gateway ID and Register ID is located at the bottom of the gateway unit.


Step 4: Once the gateway has been successfully registered, an  icon will appear next to your registered device.

Note

The  icon indicates incomplete device provisioning between the Omega Link Gateway and the Cloud. If the icon persists for more than 5 minutes after the gateway registration, power cycle the gateway device to reattempt device provisioning. Users can access the internal gateway UI to check the status log of the device if the issue persists.

Once you have access to your account and have completed your initial device pairing, you will be presented with your connected devices on the Omega Link Cloud interface.

3.1.1.1. Gateway Details

To view your gateway details or change the name of your device, click the  icon associated with the gateway you wish to view. From here, you will be able to change your gateway name and view your gateway ID, firmware version, model number, initial boot-up date and time, hardware type, manufacturer, and last recorded device heartbeat.


Gateway ID: xxxxxxz82f	
Gateway Name	
<input type="text" value="GW-001-2 Test"/>	
Firmware	Hardware
1.2.0	A1
Model	Manufacturer
GW-001-2	Omega Engineering Inc.
Boot Up	Last Heart Beat
8/5/2023, 10:36:56 AM	8/9/2023, 11:33:43 AM
<div>Cancel Ok</div>	

Figure 6: Omega Link Cloud registered gateway details

3.1.1.2. Situational Amber LED Status Indicator During Initial Boot-Up

Occasionally, the LED status indicator of the Omega Link Gateway will display a solid amber light. This solid amber light indicates that there is no Internet connection to the Omega Link Gateway. This can be verified by navigating to the internal gateway user interface using a web browser (refer to the Omega Link Gateway user's manual for more information on accessing the internal gateway user interface). Should this occur, the user or company's IT department must open firewall ports and IP addresses to allow the connection to occur.

3.1.2. Management

Clicking the Management  icon allows administrator users to create customizable groups of gateways, assign gateways to other administrators, and assign gateway alarm notifications to other users. The "Group" feature allows admin users to group gateway devices and organizational users. Groups of users will have permission to view, change, and/or receive alarm notifications from the sensors associated with the gateways in the group.

3.1.2.1. Creating a Device Group and Adding Devices

To create a **Device Group** and add sensing devices to that group, follow these instructions:

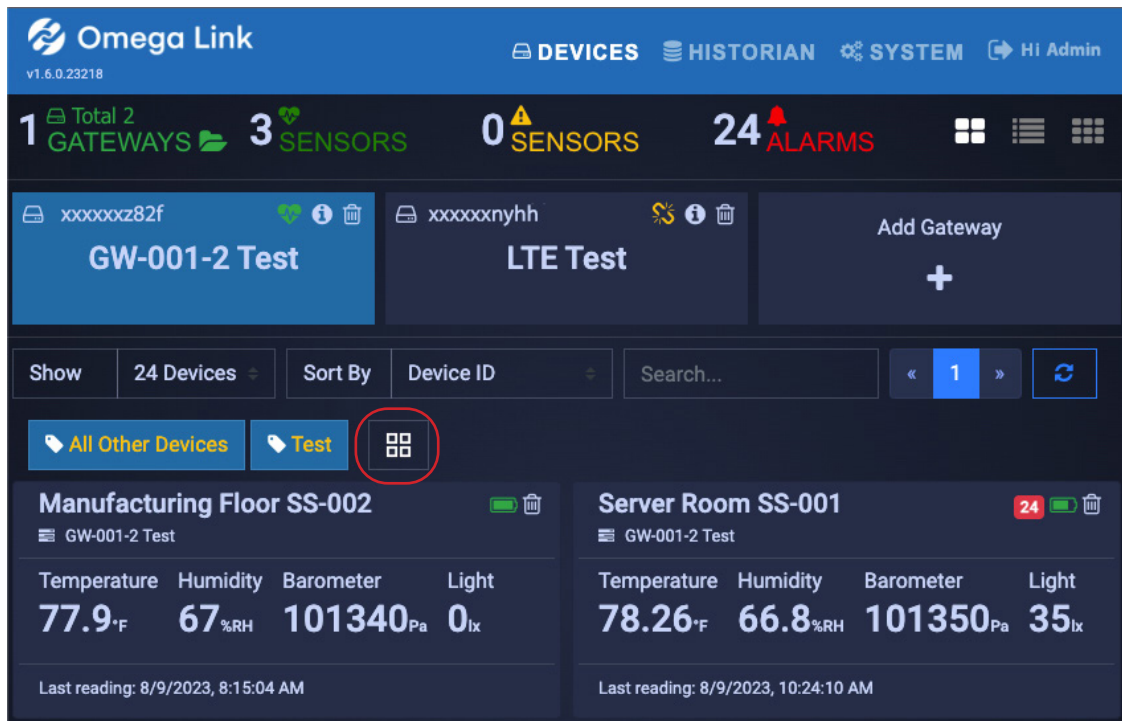


Figure 7: Omega Link Cloud devices home page - Management

Step 1: On the Omega Link Cloud homepage, click on the Management icon  .

Step 2: Click **Groups**, then click **Add Group** and create a name for your group. Click **Create** to finalize.

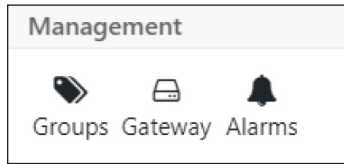


Figure 8: Device Management options

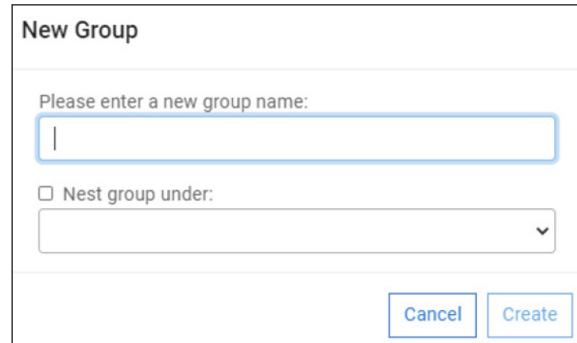



Figure 9: New Group Interface

Note

The drop down for **Nest Group Under** can be disregarded.

Step 3: Once your group is created, a pop-up window will appear with the title **Manage Device Groups**. Click the  icon to add a user's email address and grant them access to the group. Click **OK** to finalize the changes.

Note

Before adding a user to a group, the user must be granted access to the Omega Link Cloud account by completing the steps outlined in section **3.3.3.1 How to Add Organizational Users**.

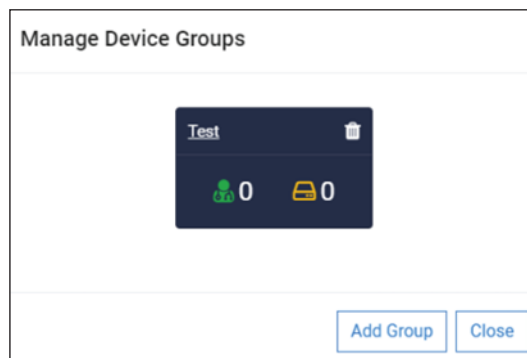



Figure 10: Manage Device Groups Interface

Step 4: Once back on the **Manage Device Groups** window, click the  icon to add sensing devices to your newly created group. Click **OK** to finalize the changes.

Assign Devices to Group 'Test'

Show 10 entries

Search:

<input type="checkbox"/>	Device Name	Device ID	Gateway Name
<input type="checkbox"/>	Server Room SS-001	XXXXXXXXXXXX9C79	GW-001-2 Test
<input type="checkbox"/>	R&D Lab SP-004	XXXXXXXXXXXX5D0C	GW-001-2 Test
<input type="checkbox"/>	Manufacturing Floor SS-002	XXXXXXXXXXXX934A	GW-001-2 Test
<input type="checkbox"/>	XXXXXXXXXXXXA0D2	XXXXXXXXXXXXA0D2	LTE Test
<input type="checkbox"/>	XXXXXXXXXXXX9BF5	XXXXXXXXXXXX9BF5	LTE Test
<input type="checkbox"/>	XXXXXXXXXXXX9B3B	XXXXXXXXXXXX9B3B	LTE Test

Showing 1 to 6 of 6 entries

PreviousNext

Cancel

Ok

Figure 11: Assigning a device to a specific group

3.1.2.2. User and Device Assignment



To assign users to devices, click the Groups icon, and click **Add Group**. After naming your group, you can click on these icons to add users and devices to your group.

3.1.2.3. Assign Gateway to Admin (Admin Only)



To assign a gateway to an admin, click the Gateway icon. Enter the admin's email address and select the gateway that will be assigned to them. Click **Assign Gateway** to finalize.

Important

If multiple Administrator users will be registered under the same company name, it is important that the company name be typed the same way for each admin registration to ensure proper operation when assigning devices.

3.1.2.4. Assign Alarm Notifications



To assign gateway alarms to other users, click the Alarms icon. Select your gateway, select the users to be assigned the alarm notifications, and click **Confirm Assign** to finalize.

3.1.3. Sensor Analytics

To access the analytics of a specific sensor, click on the measurements of the sensor you wish to view.

3.1.3.1. Measurements

The measurements tab displays graphs of the readings recorded by your sensor. It allows users to change between live readings and specified ranges of time. All data points, except for **Real Time**, are downsampled to 10 minutes for 24 hours and 1 hour for 7 days and 30 days. Custom range downsampling will be based on the Reporting Interval when plotted on the Omega Link Cloud interface regardless of the Cloud subscription level. All Real Time logged data fully remains in the Historian. See section **3.2 Historian** for more information.

Note

Data backfilled from offline sensor devices will not have the subscription level downsampling rate appear in the Measurements chart if the custom range is greater than 24 hours. However, the data gathered while the sensor was offline (but still powered on) is preserved as long as there is still space in the internal memory. In case the sensor memory is full, the oldest data will be overwritten first.

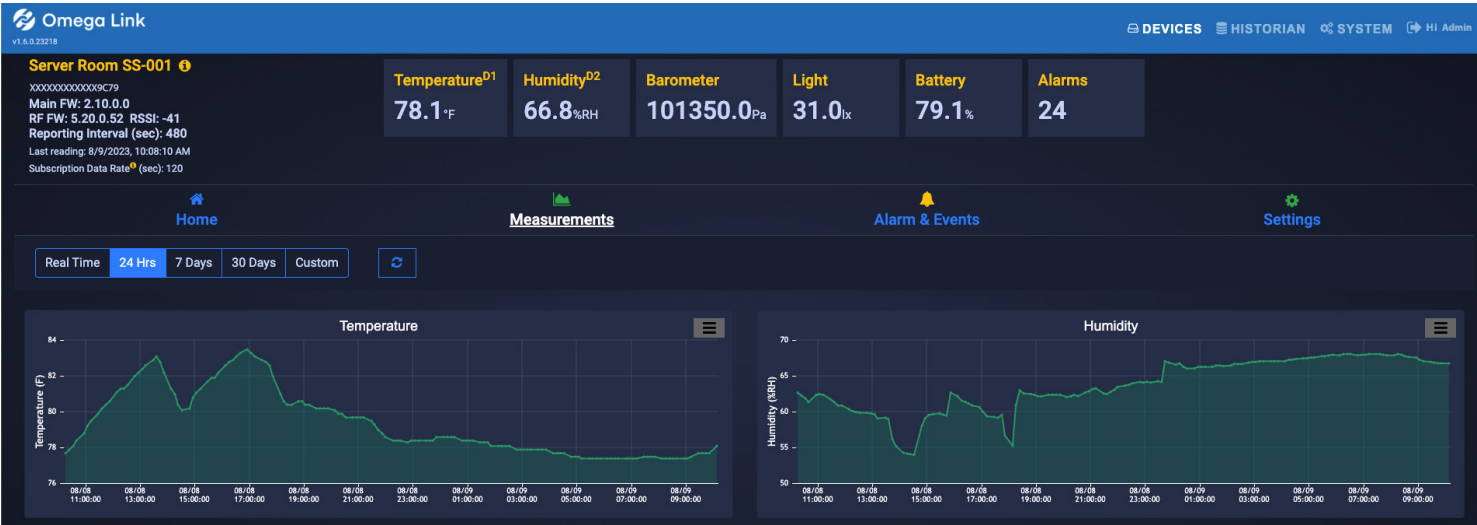


Figure 12: Omega Link Cloud sensor measurements – Graph View

3.1.3.2. Alarms and Events

The Alarms and Events tab displays all alarms and events that were triggered by this device. Each alarm and event include a short message describing the nature of the alarm or event.



Figure 13: Omega Link Cloud Alarms and Events Interface

3.1.3.3. Settings (Define Alarms and Events)

The Settings tab allows users to change all settings relevant to how the device interacts with the Omega Link Cloud. Users can customize the device name, alarm/event thresholds, and sensor reporting properties.

To set a local alarm output once you are in the **Settings** tab, define the parameters of the alarm by defining the threshold. Your alarm can be configured to trigger when readings go **Above**, **Below**, or **Out of Range** of your defined threshold. Once you have defined your alarm parameters, click **Update** to finalize your changes.

3.1.3.4. What is Deadband in Settings?

It is standard to establish the desired threshold or setpoint to trigger an alarm when a condition is met. Triggering an alarm repeatedly in a short period, however, can produce unwanted results, such as having the alarm flip between inactive and active several times and triggering unwanted actions tied to that alarm as a result. Additionally, the constant alarm email notifications may result in an email service shutdown.

To solve the alarm chattering issue, Omega has implemented a Deadband feature into the Omega Link Cloud. Also known as hysteresis, the deadband establishes a range, or threshold, of values from the setpoint that the Omega Link Cloud will accept before the alarm is triggered. The deadband threshold can either be defined as an absolute value or as a percentage of the setpoint value.

In the Omega Link Cloud, the deadband feature in the alarm settings is expressed as a percentage. For example, if a user enters a value of 5 in the deadband text box, a range of +5% to -5% from the threshold has been established and the alarm will not be triggered within that region.

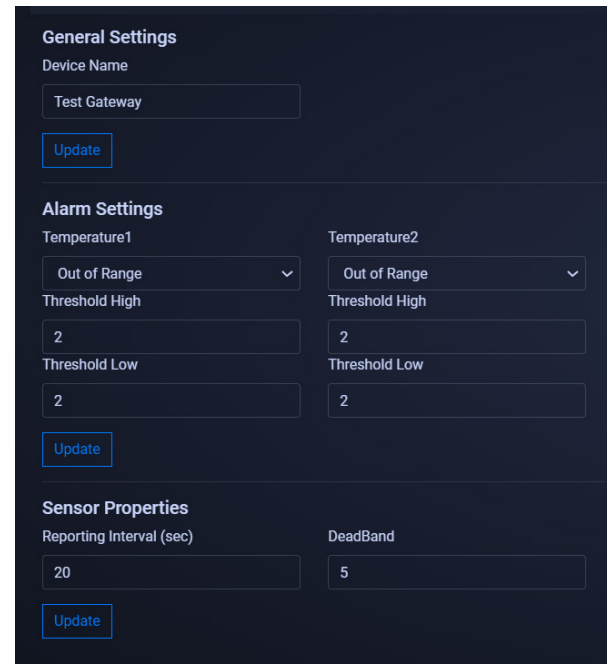


Figure 14: Omega Link Cloud Settings

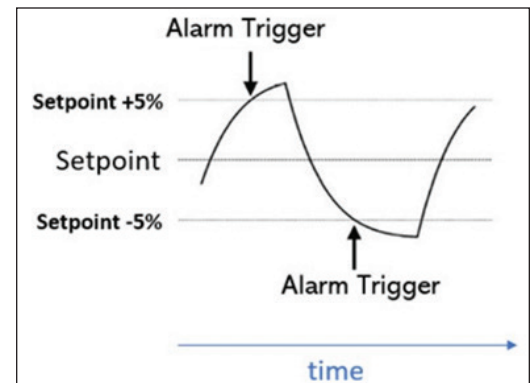


Figure 15: Setpoint as a percentage

3.2. Historian

The Historian tab allows users to create reports of past readings within a range of time and presents them as a graph. Through the Historian tab, users can export their chart data as a .csv file. Begin by clicking **Select Devices** and making your selection. Select the range of time your wish to view and choose a graph type from the selection. Your data will then be displayed and ready for export.

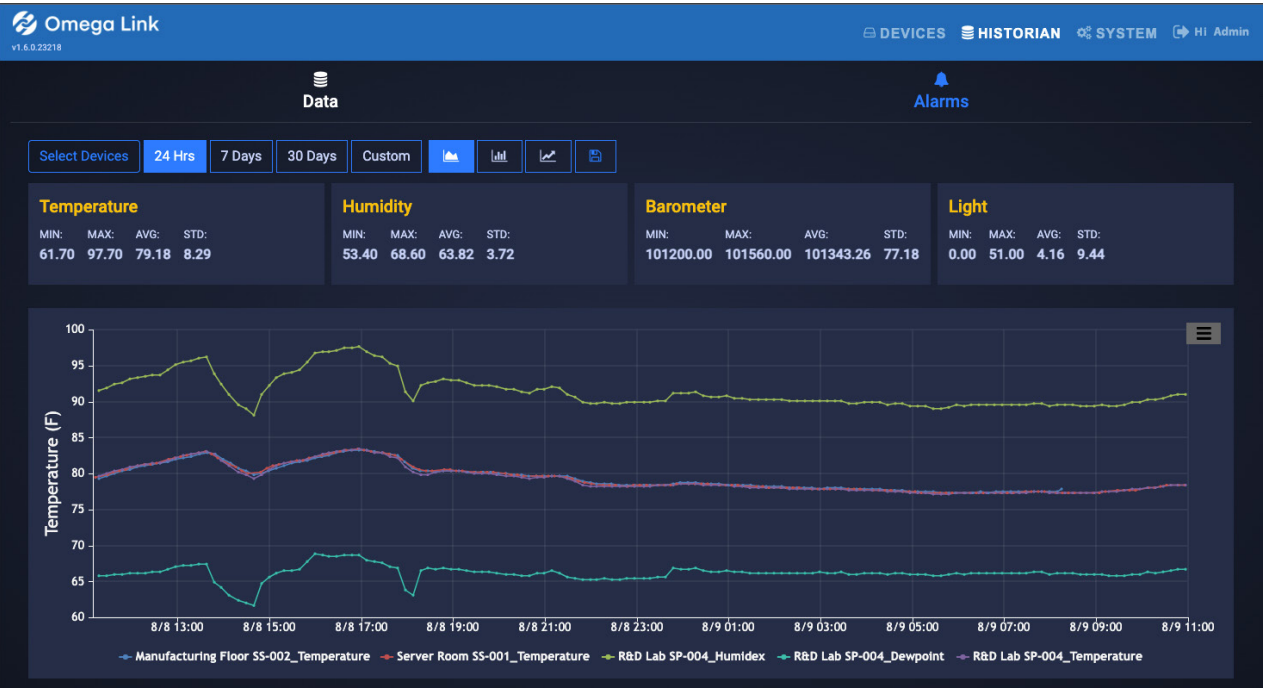


Figure 16: Omega Link Cloud Historian interface

3.2.1. How to Generate a Historical Data Report

Users can begin to generate a **Historical Data Report** by clicking the **Select Devices** button.

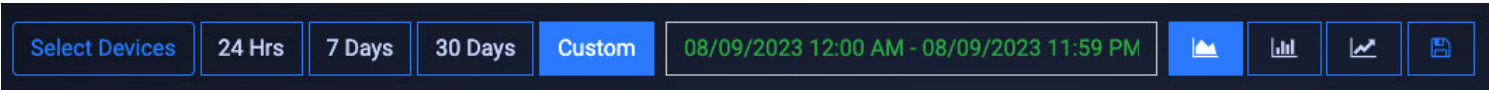


Figure 17: Historical Data Report parameters

Users can then select the desired device(s) to add to the report by clicking the associated check boxes. Click **OK** to finalize the selection.

Select Devices				
Show <input type="text" value="10"/> entries		Search: <input type="text"/>		
<input type="checkbox"/>	Gateway Name	Device Name	Device ID	Gateway ID
<input type="checkbox"/>	GW-001-2 Test	Manufacturing Floor SS-002	XXXXXXXXXXXX934A	xxxxxxz82f
<input type="checkbox"/>	GW-001-2 Test	R&D Lab SP-004	XXXXXXXXXXXX5D0C	xxxxxxz82f
<input type="checkbox"/>	GW-001-2 Test	Server Room SS-001	XXXXXXXXXXXX9C79	xxxxxxz82f

Figure 18: Historical Data Report Select Devices interface

Select a Time Period or a Range of Dates

To specify the range of time the report will cover, users can select **24 Hrs**, **7 Days**, **30 Days**, or **Custom** date and time. Click **Apply** to finalize the changes.

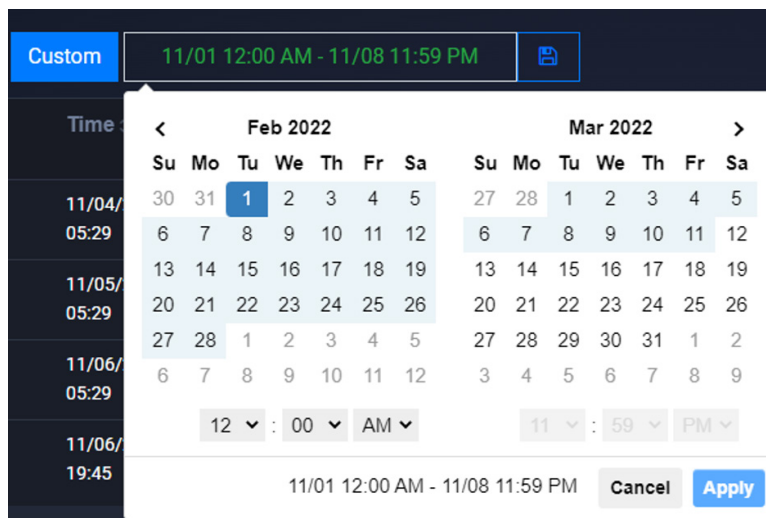


Figure 19: Custom date range calendar interface

Save the Result/Export Chart Data

Users can save and export the generated data by clicking the save icon . A .csv file of the data will be generated and the user will be prompted to download the file.

Graph Data Presentation

The Historian interface provides three methods of presenting graphed data: **Plot Time Series**, **Plot Histogram**, and **Plot Prediction**.

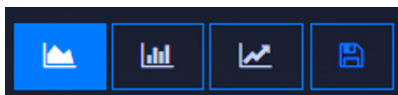


Figure 20: Graph data viewing options

Plot Time Series



Figure 21: Plot time series graph view

Plot Histogram

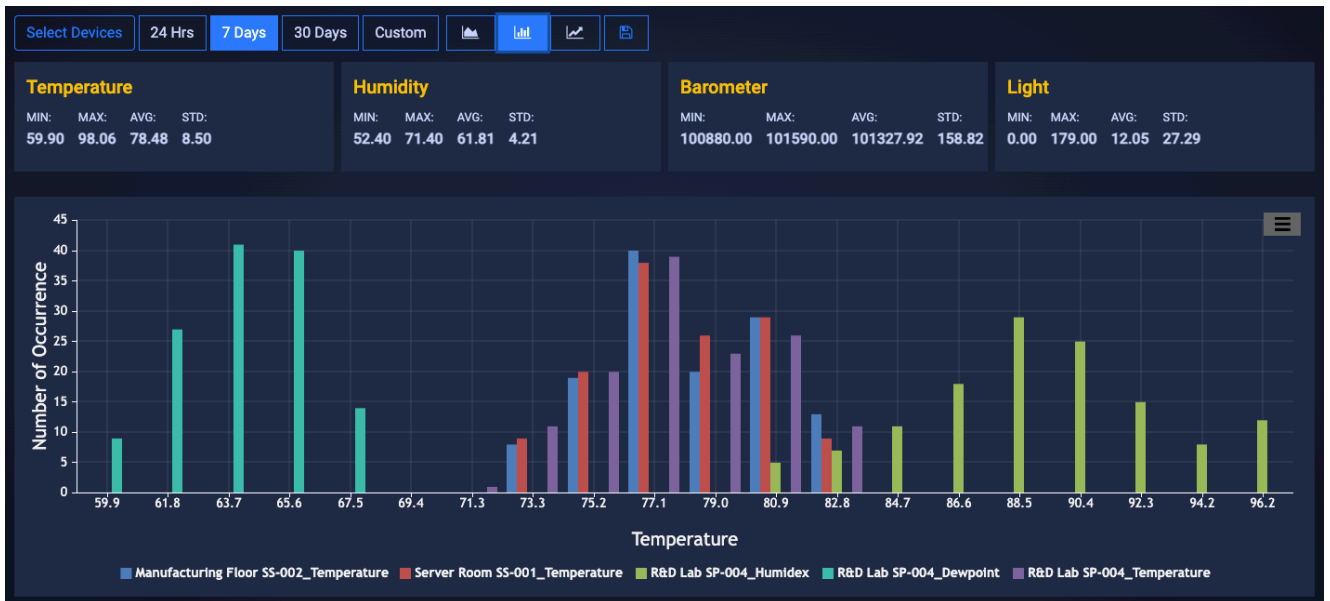


Figure 22: Plot Histogram graph view

Plot Prediction

To utilize the **Plot Prediction** feature, enter the date and time of the value you would like to predict and click the **Predict Future Values** button to display the data.



Figure 23: Plot Prediction graph view

3.3. System Settings

The System settings for the Omega Link Cloud allow you to customize your profile information, the units of measure displayed, user access permission, subscription management, and include contact information for technical support and feedback.

3.3.1. Profile

The Profile tab allows users to configure settings such as associated email addresses, passwords, security questions, and notifications.

Using the email address associated with the account or by providing an SMS email address, users can receive notifications directly whenever an alarm or event is triggered.

Passwords can be updated by entering the old password in the text box and then entering and confirming the new password as directed on the webpage. Security questions can be configured at the bottom of the Profile webpage.

Important
Ensure the Notification checkboxes are properly marked according to the type of notification alert the user would like to receive.

User Information

Email:

Name:

SMS Email:

Click Add button to create/edit

Add

Time Zone:

America/Los_Angeles

Notification

☒ Alarm

☒ Event

Change Password

Old Password

Old Password

New Password (8 or more characters, including at least one lowercase, one uppercase, one number and one of these special characters: @!#\$%&*?)

Password

Confirm Password

Change

Figure 24: Omega Link Cloud Profile settings

3.3.2. Units

The Units tab allows users to set their preferred units of measure as they appear on the Omega Link Cloud. Changing the units here does not change the units of your sensing devices. It only changes the unit of measure as it appears on the Omega Link Cloud.

Set Display Units

Weight	Pressure	Barometer	Temperature	Flow	Humidity
kg	Pa	Pa	F	L/min	%RH
Voltage	Current	Illuminance	Light	Luminance	Resistance
mV	mA	lx	lx	lx	ohm
Time	Frequency	Length	Volume	Velocity	DutyCycle
s	Hz	m	ft3	m/s	%
HeatFlux	DigitalInput	Gas	Magnetometer	Tilt	Accelerometers
W/m2	DIN	ppm	gauss	deg	m/s2
Energy	Concentration				
C	ppm				

Apply

Figure 25: Omega Link Cloud local display units

Note

Changing the units of measurement only affects the readings displayed on the Omega Link Cloud. Omega Link sensing devices interpret data according to the International System of Units (SI).

3.3.3. Users

The Users tab allows Administrator Users to add organizational users via email to the Omega Link Cloud account. This provides them permission to view or change the sensing device data associated with the account. To add a user, enter their email address in the text box and choose **Can Change** or **Can View** to grant access or restrict access.

Add User

User Email

Enter user email

Can Change

+

-

Note: Can Change option allows user to update settings for assigned devices. Can View option only allows user to view assigned Devices.

Figure 26: Omega Link Cloud Add or Remove user access

3.3.3.1. How to Add Organizational Users

To add organizational users to an Omega Link Cloud account, follow these steps:

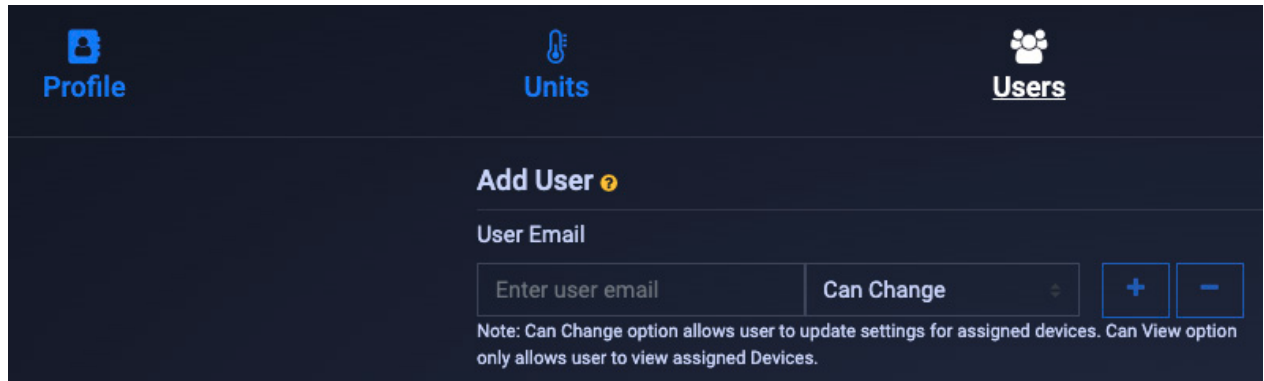



Figure 27: Omega Link Cloud Users tab

- Step 1:** On the Omega Link Cloud homepage, click on the **SYSTEM** tab, and click on **Users**. Enter the email address of the user you want to add.
- Step 2:** Click the dropdown next to the email address text box and select the level of access the new user will have: **Can Change** or **Can View**.
- Step 3:** Click the  icon to add the user. The email address of the new user will appear on the **Existing Users** table.
- Step 4:** Once the previous steps are complete, the new user will receive an email prompting them to register an Omega Link Cloud account. If no email is received within 10 minutes, the email may be in the user's spam folder.

3.3.4. Subscription

The Subscription tab shows your current subscription tier and provides a link to the Omega website should you choose to upgrade your subscription plan. If you purchased the subscription with a billing email different than your Omega Link Cloud account email, you may link the two here.

3.3.5. Contact Us

The Contact Us tab provides an email address link for direct engineering technical support. It also provides a text field for user feedback and comments.

3.4. How to Remove a Paired Smart Sensor from a Gateway

To remove a paired Smart Sensor (such as the SS-001) from a registered Omega Link Gateway, follow the steps below:

- Step 1:** Log in to the Omega Link Cloud account associated with the paired devices.
- Step 2:** From the Omega Link Cloud device readings page, identify the Smart Sensor that will be removed, and click the Trash Can icon .



Figure 28: Omega Link Cloud UI Smart Sensor readings

3.4.1. How to Move a Paired Smart Sensor to a Different Omega Link Gateway

To move a paired Smart Sensor (such as the SS-001) to a different Gateway, follow the steps below:

Note

When moving a paired Smart Sensor to a different Gateway, alarm, and event thresholds may be triggered and notifications based on user preference may be delivered. Notifications sent as a result of the re-pairing process may be disregarded.

- Step 1:** Navigate to the Omega Link Cloud account that is associated with the Smart Sensor and remove the Smart Sensor from the account.
- Step 2:** Ensure the unit is powered with either a USB connection or batteries. Press and hold the Pairing Button on their Smart Sensor for 8 seconds so that the LED Status Indicator blinks red to factory reset the device, then release the pairing button.

After the factory reset, the LED Status Indicator on the Smart Sensor will turn Amber/Orange indicating the device is in pairing mode and is ready to be paired to a new Gateway.

4. User-Defined Sensor Unit of Measurement Conversion w/ Gain & Offset Scaling

The Omega Link ecosystem of products support the user-defined sensor unit of measurement conversion with gain and offset scaling. The following is an example application of the feature.

Compatible 4 to 20 mA process input sensing devices that are connected to SYNC can be scaled and configured to report accurate sensor readings in the Omega Link Cloud user interface. To configure and scale the 4 to 20 mA process input of a compatible, connected, sensing device follow the steps below:

The screenshot shows the SYNC configuration interface for a sensor named RHPX-RH. The interface is divided into several sections. The 'Sensor' section includes fields for Name (RHPX-RH), Measurement Type (MILLIAMPS), Advanced Scaling (checked), Unit (%RH), Global Display Unit (unchecked), and Lock (checked). The 'Scaling' section is expanded, showing Gain (5) and Offset (-10). The 'Device Range/Type' section shows a dropdown menu set to 0-24 mA. At the bottom, there is an 'Apply Settings' button. Red circles highlight the Name, Measurement Type, Advanced Scaling, Unit, Global Display Unit, Lock, Scaling, Apply Scaling, Gain, Offset, and Apply Settings button.

Sensor RHPX-RH	
Sensor	
Name	RHPX-RH
Measurement Type	MILLIAMPS
Advanced Scaling	<input checked="" type="checkbox"/>
Unit	%RH
Global Display Unit	<input type="checkbox"/>
Lock	<input checked="" type="checkbox"/>
Scaling	Gain:5, Offset:-10
Apply Scaling	<input checked="" type="checkbox"/>
Gain	5
Offset	-10
Device Range/Type	
Type	0-24 mA

Offset
Offset of linear interpolation. Valid when apply scaling checked.
Make sure the global display unit is the same as the sensor unit when applying the offset

Apply Settings

Figure 29: SYNC Advanced Scaling

- Step 1:** Launch SYNC configuration software and connect the compatible 4 to 20 mA sensor that will be configured
- Step 2:** From the **Inputs** tab, click the **Advanced Scaling** check box to **enable** it and display the advanced scaling options.
- Step 3:** Provide a name to the sensor in the Name text box (16-character limit) and enter the unit of measure associated with the device in the Unit text box (4-character limit).
- Step 4:** Click the **Global Display Unit** check box to **disable** the option.
- Step 5:** Click the **Scaling** sub-menu drop down and click the **Apply Scaling** check box to display and edit the **Gain** and **Offset** text boxes.
- Step 6:** Navigate to a 4 to 20 mA Scaling Calculator at the following url:
<https://omegaupdates.azurewebsites.net/4-20calculator.htm>
- Step 7:** Enter the **Sensor Minimum** and **Sensor Maximum** process range values associated with the 4 to 20 mA sensor into the calculator and click **Calculate**.
- Step 8:** The calculator will then provide **Gain** and **Offset** values as a result.
- Step 9:** Back on SYNC configuration software, enter the newly received **Gain** and **Offset** values under the **Scaling** drop down from **Step 3**.
- Step 10:** Click **Apply Changes** to finalize and save the changes to the sensor.

When the configured 4 to 20 mA sensor is added to either an Omega Link Cloud or Omega Enterprise Gateway account, the sensor values will display according to the configurations.



Figure 30: User Configured Sensor Units of Measure as they appear in OEG and Omega Link Cloud

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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