

OMEGA M6746-0223 SYNC Device Configuration Software User Manual

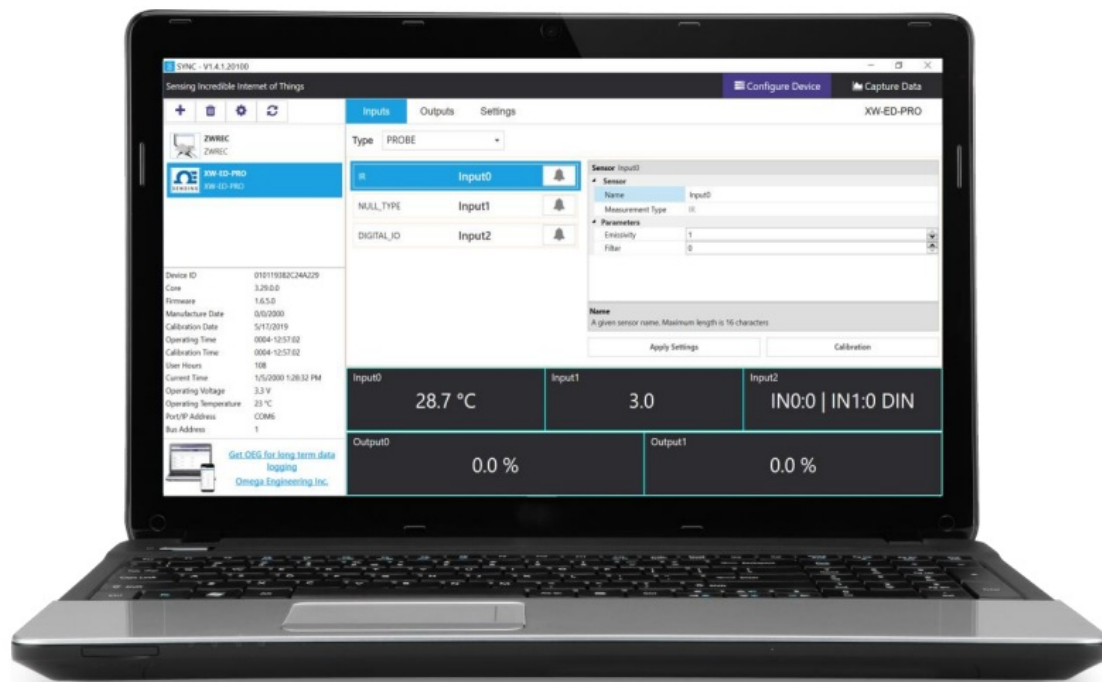
[Home](#) » [Omega](#) » OMEGA M6746-0223 SYNC Device Configuration Software User Manual 

Contents

- 1 OMEGA M6746-0223 SYNC Device Configuration Software
- 2 Product Information
- 3 Introduction
- 4 Installation
- 5 Configure Device Interface
- 6 Configuring Smart Probes and Wireless Devices
- 7 Configuring PID Controllers and Process Meters
- 8 Omega Link Smart Device Password
- 9 Capture Data Interface
- 10 Appendix A – EULA
- 11 WARRANTY/DISCLAIMER
- 12 Documents / Resources
 - 12.1 References
- 13 Related Posts



OMEGA M6746-0223 SYNC Device Configuration Software



Product Information

Specifications

- **Product Name:** SYNC – Omega Device Configuration Software
- **Manufacturer:** Omega Engineering, Inc.
- **Headquarters:** 800 Connecticut Ave. Suite 5N01, Norwalk, CT 06854
- **Toll-Free:** 1-800-826-6342 (USA & Canada only)
- **Customer Service:** 1-800-622-2378 (USA & Canada only)
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Introduction

The SYNC – Omega Device Configuration Software is a premier device configurator for Omega Smart products. It provides a universal interface for efficient configuration of qualifying Omega devices. Please refer to the device User's Manual for specific Smart Core device information.

Licensing

SYNC is free to all customers who use Omega devices. The software is governed by Omega's End User License Agreement (EULA) and is also subject to open-source licensing. For more information, please see Appendix A: EULA.

Use Scenarios

1. **Device Configuration:** SYNC allows for the efficient configuration of qualifying Omega devices. For more information regarding a specific Smart Core device, users should refer to the device User's Manual.
2. **Short-Term Data Graphing:** Under certain circumstances, users may want to capture device process values

to ensure correct device configuration. SYNC supports short-term data trend viewing and export. For long-term data capture, consider using Omega Enterprise Gateway.

Installation

1. Unzip and open the SYNC file downloaded from the Omega website. The installer package includes SYNC Application Files, .msi installer file, User's Manual, Release Notes, License and Copyright Notice, and End User License Agreement.
2. Click the SYNC.msi file to launch the setup.
3. Follow the setup instructions to complete the installation process.
4. After the installation, a desktop shortcut icon of SYNC will be created. Use this shortcut to launch the software.

Configure Device Interface

(No information is provided in the user manual)

FAQ

1. Is SYNC available for free?

Yes, SYNC is free to all customers who use Omega devices.

2. Where can I find the EULA for SYNC?

The End User License Agreement (EULA) can be found in Appendix A of the user manual.

3. What is the purpose of SYNC?

SYNC is a device configurator for Omega Smart products, allowing for efficient device configuration and short-term data graphing.

4. Is long-term data capture supported by SYNC?

No, for long-term data capture, it is recommended to use Omega Enterprise Gateway.

Introduction

SYNC by Omega is a device configuration and management software platform for qualifying Omega Smart devices. It allows users to configure device runtime parameters, view process values, export data, and allows you to efficiently set your devices to operate under your preferred preferences. SYNC does not support long-term process value storage. We recommend Omega Enterprise Gateway (OEG) software for long-term data logging and analytics. OEG web client is platform independent. SYNC can be installed on Windows® 10. The minimum hardware requirements for server installation are: Dual core: CPU 2.4 GHz or up; Memory: 4 GB or up; Hard drive: 250 GB or up.

Licensing

SYNC is free to all customers who use Omega devices. The software is governed by Omega's EULA and is also subject to open-source licensing. Please see Appendix A: EULA for more information.

Use Scenarios

SYNC is the premier device configurator for Omega Smart products. The use scenarios for the software are outlined below:

- **Device Configuration**

SYNC provides a universal interface for the efficient configuration of qualifying Omega devices. For further information regarding a specific Smart Core device, users should refer to the device User's Manual.

- **Short-Term Data Graphing**

Under certain circumstances, users may want to capture device process values to ensure that the device configuration is done correctly. SYNC supports short-term data trend viewing and export. For long-term data capture, consider using Omega Enterprise Gateway.

Installation

The SYNC zip file contains the installer package for the software. Follow these steps to complete the installation process:

Step 1: Unzip and open the SYNC file downloaded from the Omega website.

Note:

Included in the installer package are the SYNC Application Files, .msi installer file, User's Manual, Release Notes, License and Copyright Notice, and End User License Agreement.

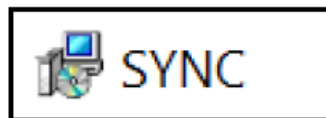


Figure 1: SYNC installer

Step 2:

Click the SYNC.msi file (Figure 1) and proceed through the setup (Figure 2) to launch SYNC for the first time.

Note:

A desktop shortcut icon of SYNC (Figure 3) is created after the installation. This shortcut will launch the software after the initial installation.

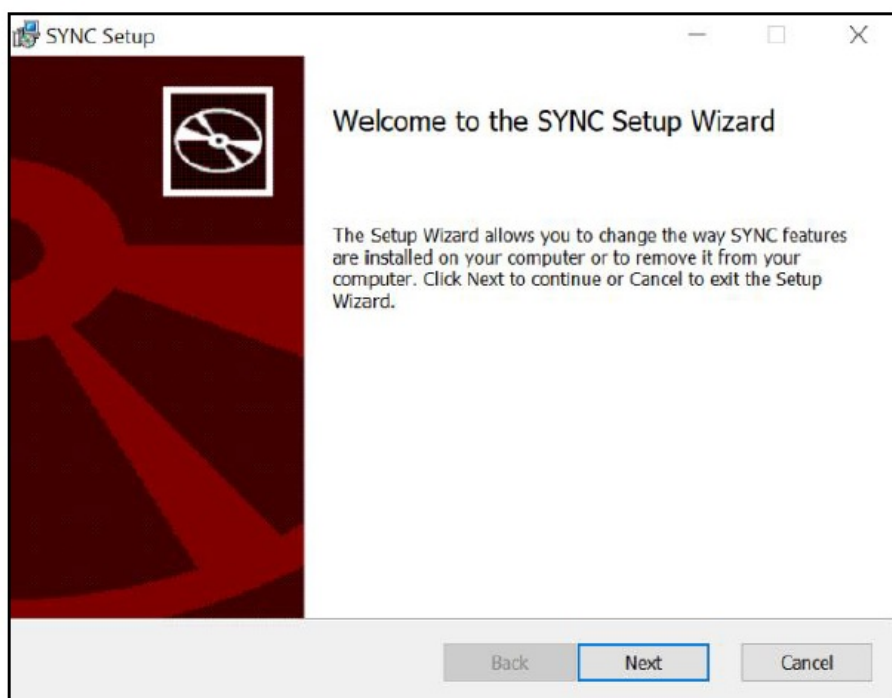


Figure 2: SYNC setup



Figure 3: SYNC desktop icon

Windows 7 and USB Interface Installer

- For Windows 7 users who will be connecting an IF-001 USB Smart Interface cable or a Platinum USB Interface to SYNC, an OmegaVCP.inf text file needs to be installed by copying the text file into your C:/Windows/inf/ folder. The OmegaVCP.inf file is included in your installer package.
- **Important:** It is required for Windows 7 users to install the OmegaVCP.inf file to properly connect a USB interface to SYNC configuration software. Administrator access is required to install this file to your computer.

Configure Device Interface

Menu Tabs

SYNC has two menu interfaces:

- **Configure Device:** This allows you to configure your software-adjustable devices.
- **Capture Data:** Provides short-term data logging features.

The blank Configure Device interface is the first view you see after SYNC is launched. Once a device is connected, you will see an interface like the one displayed in Figure 4.

Device Auto Detection

Omega Smart devices will be automatically detected once they are plugged in to the computer running the SYNC software. For instructions on how to connect a specific device to SYNC, please refer to the user documentation associated with that device.

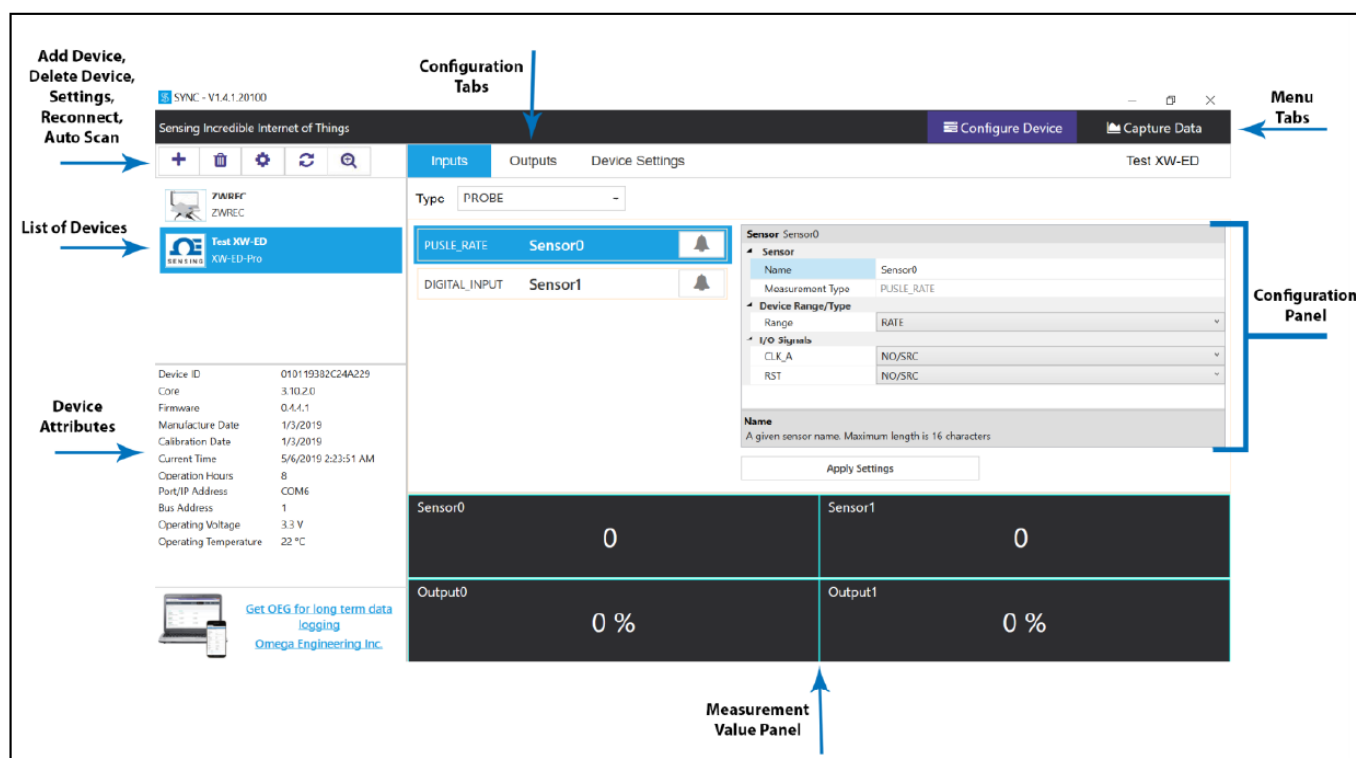


Figure 4: SYNC UI overview

Note:

The Configure Device interface may look differently than the one displayed in Figure 4 depending on the product that is connected.

List of Devices

- This section of the interface lists all the devices connected to SYNC. For each connected device, the assigned name and the product name will be displayed. The device name consists of COM port, device address, and model. Users can switch between devices in the list to configure or capture data.
- You may right click the device to Rename and Refresh your device. Users may choose to refresh the device this way should a quick device reboot be necessary.

Device Attributes

The Device Attributes list will appear when you click on a device from the Device List section (Figure 4).

Configuration Panel

The configuration of connected devices takes place in the Configuration Panel. The Configuration Panel settings and parameters will vary depending on the product that is connected. The configuration panel displays the software-adjustable parameters of the Omega device.

Measurement Value Panel


The Measurement Value Panel displays the value that the device has been configured to measure. Alarm status and active zone status are indicated in colors:

- **Black:** A normal reading is being displayed.
- **Red:** An alarm condition has been triggered.
- **Gray:** The reading zone has been disabled.

Note:

For more information on how to set alarms on your device, see the section titled Setting Alarms.

Add or Delete Device Button

Clicking the Add Device icon  (Figure 4) will lead to a wizard that guides you through the process of adding a device to SYNC.

Select Communication Interface

Please ensure that parameters correctly match what are on device

USB

Note: physical connection type must match selected

Command Timeout

500

Device Address

1

Device IP or Port

COM3

Command Timeout

The maximum time in millisecond for waiting response.

< Back

Finish

Cancel

Figure 5a: USB communication interface

Select Communication Interface

Please ensure that parameters correctly match what are on device

USBSerial

Note: physical connection type must match selected

BaudRate

38400

Command Timeout

500

DataBits

8

Device Address

1

Device IP or Port

COM3

Parity

Even

StopBits

One

BaudRate

The baud rate.


< Back

Finish

Cancel

Figure 5b: USB Serial communication interface

Default interface settings are provided in the wizard for USB (Figure 5a) and USB Serial Communication Interface (Figure 5b). Please refer to your device User’s Manual for other communication interface setting options if default settings are not applicable.

The device can be deleted by clicking the Delete icon  (Figure 4).

System Settings



The System Settings icon allows the user to customize the Behaviors and Display Units of SYNC.

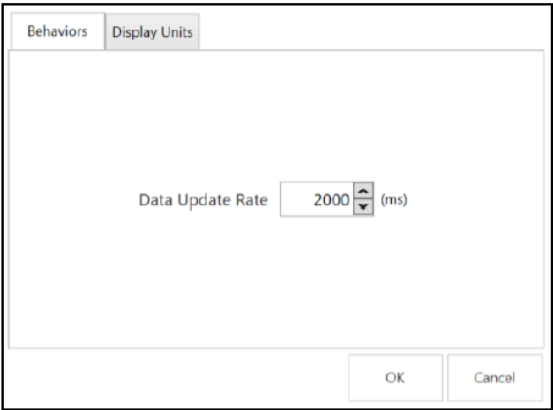


Figure 6a: Data update rate (Behaviors)

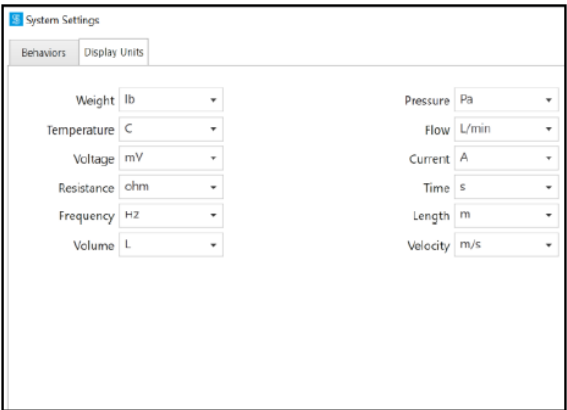


Figure 6b: Display units

The Behaviors tab (Figure 6a) manages the Data Update Rate: the frequency at which the system pulls information from the device in milliseconds. The Display Units tab (Figure 6b) allows the user to globally customize the units of measure displayed for various values.

Note:

The sensors are permanently set to measure SI units. By changing the Display Units on SYNC, you are only changing the units displayed on SYNC, not in the sensor itself. Not all configurable global settings that are available for Smart Probes will be available for PID Controllers and Process Meters.

Reconnect



The Reconnect button attempts to connect devices that may not have been auto-detected.

Auto Scan Settings



The Auto Scan Settings button allows the user to choose what devices are detected when SYNC auto-scans for connected devices or when the Reconnect button is clicked. To add a device to the auto scan list, drag the device category from the Supported Devices Column to the Auto Scan column. To remove a device from the auto scan list, drag the device category from the Auto Scan Devices column to the Supported Devices column. Once you have finished customizing your settings, click Close.



Figure 7: Auto scan settings

Update Devices

The Update Devices button updates the device library for the listed device categories. The update requires an internet connection and requires SYNC to restart to detect the new devices.

Configuring Smart Probes and Wireless Devices

SYNC allows users to configure qualifying Smart Probes and Wireless Devices. To configure these settings, you must have a Smart Probe or Wireless Device connected to SYNC. Click on the Smart Probe or Wireless Device you would like to customize from your List of Devices.

The Configuration Tabs allow the user to switch between the device Inputs, Outputs, and Settings interface. Refer to the device specific User's Manual for the software adjustable inputs, outputs, and settings available on your device.

- **Inputs:** Displays configuration options for device inputs.
- **Outputs:** Displays configuration options for device outputs.
- **Settings:** Displays configuration options for the device settings and system functions.

Figure 8: SYNC Inputs configuration UI

Inputs

To configure the inputs of your Wireless Device or Smart Probe, begin by navigating to the Inputs Configuration Tab and select your Input Type from the dropdown. Settings are adjusted on an interface that allows for full configuration of the device as seen in Figure 7.

Setting Alarms

SYNC allows users to set alarm conditions that notify the user when said conditions are met. The alarm feature is



only available on qualifying products. The alarm icon  is located to the right of the input name in the configuration interface. Clicking the alarm icon will take you to the Define Alarm dialog box as seen in Figure 8.

Figure 9: Defining an Alarm through SYNC

Once the conditions for your alarm have been set, click the Plus icon  to add the alarm to your list of active alarms, and click Save to finalize.


- Outputs

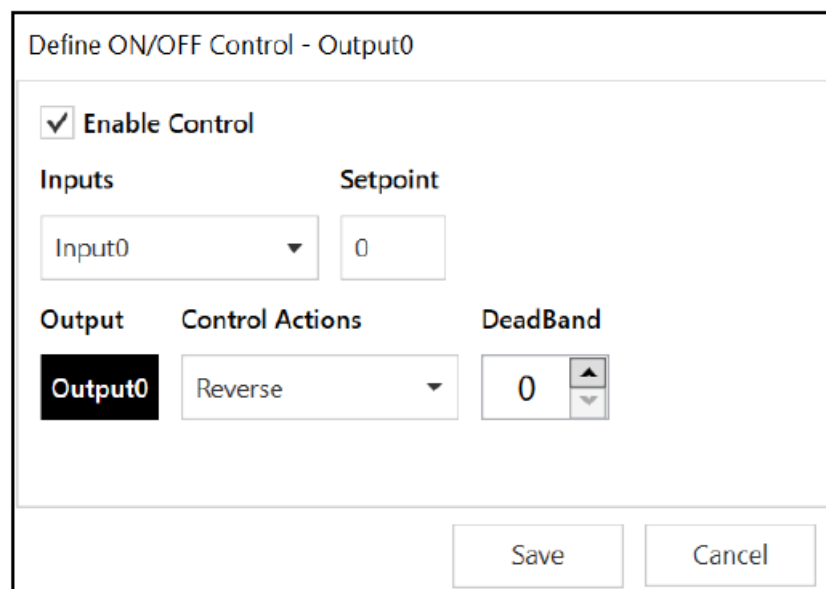
To configure the outputs of your Wireless Device or Smart Probe, begin by navigating to the Outputs Configuration

Tab. Settings are adjusted on an interface that allows for full configuration of the device.

Configuring ON/OFF Control

Note: Only devices that specifically offer digital outputs may configure ON/OFF Control or PWM.

To configure ON/OFF Control on a device, navigate to the Output configuration tab and click on the  icon located to the right of the available outputs. Clicking the icon will open the Define ON/OFF Control dialog box as seen in Figure 9. Choose the Input with the active alarm that you would like to control and set your preferred parameters. Once the ON/OFF Control parameters have been set, click Save to finalize the settings.



The dialog box titled "Define ON/OFF Control - Output0" contains the following fields:

- ☒ **Enable Control**
- Inputs**: A dropdown menu showing "Input0".
- Setpoint**: A text input field containing "0".
- Output**: A dropdown menu showing "Output0".
- Control Actions**: A dropdown menu showing "Reverse".
- DeadBand**: A text input field containing "0" with up and down arrow buttons.

At the bottom right of the dialog box are two buttons: "Save" and "Cancel".

Figure 10: Configuring On/Off control

Warning:

ON/OFF Control configurations will be erased if the Input Type is changed. If the Input Type is changed, ON/OFF Control parameters must be redefined.

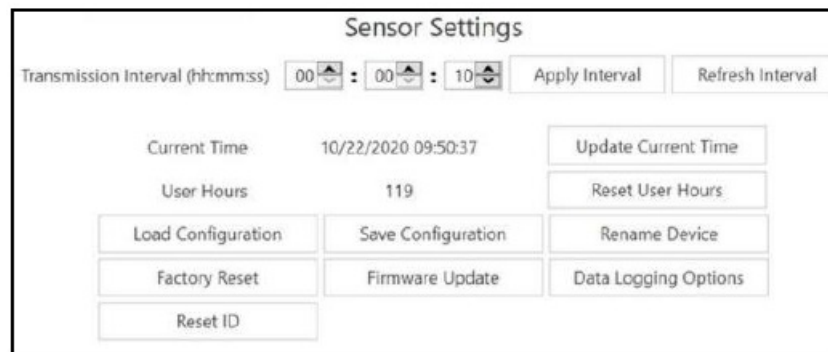
Device Settings

The system functions may vary depending on the device connected.

- **Sensor Setting:** Controls the transmission interval of the device.
- **Reset User Hours:** Resets the user hours to zero as displayed in the Device Attributes.
- **Load Configuration:** Allows the user to load a previously configured .json file to your device via Omega Sync.
- **Firmware Update:** Allows the user to upload and update the firmware1 of the device.
- **Update Current Time:** Syncs the sensor time with the current time displayed on your computer.
- **Save Configuration:** Allows the user to save the current configuration on Omega Sync as a .json file.
- **Rename Device:** Allows the user to rename the device.
- **Factory Reset:** Resets the device to its factory settings.
- **Set Passwords:** Protects the SYNC configuration of your device behind a password. Once a password has

been set, unplug the device and plug it back in to implement the password protection.

- **Data Logging Options:** When the device data log is full, the user may choose to overwrite the oldest data and continue logging new data or stop logging new data once the data log memory is full.
- **Apply Interval:** Sets the transmission interval of your sensing device.
- **Refresh Interval:** Reads and displays the current transmission interval that may have been changed by sensor alarms.



The screenshot shows the 'Sensor Settings' interface. At the top, there's a title 'Sensor Settings'. Below it, the 'Transmission Interval (hh:mm:ss)' is set to '00 : 00 : 10', with 'Apply Interval' and 'Refresh Interval' buttons. The 'Current Time' is '10/22/2020 09:50:37' with an 'Update Current Time' button. The 'User Hours' are '119' with a 'Reset User Hours' button. A grid of buttons includes 'Load Configuration', 'Save Configuration', 'Rename Device', 'Factory Reset', 'Firmware Update', 'Data Logging Options', and 'Reset ID'.

Figure 11: SYNC UI device settings

Note:

Some additional functions not listed here may be device exclusive. For more information on these functions, refer to your device User's Manual.

Configuring PID Controllers and Process Meters

Important:

The following information only applies when connecting qualifying PID Controllers and Process Meters. Not all configurable global settings that are available for Smart Probes will be available for PID Controllers and Process Meters.

- SYNC allows users to configure qualifying PID Controllers and Process Meters (CN6xx, DP6xx, etc.) To configure these settings, you must have a PID controller or Process Meter connected to SYNC. Click on the PID Controller or
- Process Meter you would like to customize from your List of Devices.
- PID Controller / Process Meter settings are adjusted on an interface that allows for full configuration as seen in Figure 10.

Sensor Type

Voltage

Unit (mV)

Decimal Points

3

Model Setup

Program Mode

Start All PID Control

Alarm Type

ALARM_HIGH

Start State

RUN_MODE

Scan Time(s)

3

Alarm Latch

Zone1

DISABLED

Zone2

VALID

RampSoak Remains: 0

Current Segment: 1

State: Idle

Output: 0

Setting

Zone3

VALID

Output: 0

Setting

Zone4

VALID

Output: 0

Setting

Zone5

VALID

Output: 0

Setting

Zone6

VALID

Output: 0

Setting

Zone1

Zone2

Zone3

Zone4

Zone5

Zone6

15 198 18 mV

1858867 mV

1722679 mV

1984902 mV

1325.116 mV

Figure 12: PID and Process Controller SYNC UI

CN616

- The Omega CN616 PID Controller allows for the customization of PID Control, Alarms, and Scaling Factor. To access these features, click on Settings for the Zone that you wish to adjust.
- Click Apply to finalize your changes.

Zone1 - Settings

PID Control

Alarm

Scaling Factors

General

Method

PID

Control Action

Heating

Control Mode

RampSoak_Idle

Deadband

0

Cycle Time

1.5

Number Segments

2

Method

Control method, either ON/OFF method or PID method

PID Parameters

P

0

I

0

D

0

Auto Tune SetPoint

33

Fixed SetPoint

0

P

Proportional Gain causes the output power to be set in proportion to the error between Control Setpoint and process value

Segments

Set Point

Slope (deg./m)

Time (m)

1

34

15

0

2

34

0

1

3

0

0

0

4

0

0

0

5

0

0

0

6

0

0

0

7

0

0

0

8

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9

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15

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0

16

0

0

0

17

0

0

0

18

0

0

0

19

0

0

0

20

0

0

0

Autotune

Apply

Close

Figure 13: PID Controller customization

DP612

- The Omega DP612 PID Controller allows for the customization of Alarms. To access these features, click on Settings for the Zone that you wish to adjust.
- Click Apply to finalize your changes.

Alarm	
Settings	
Low	-900
High	9000
Low	
Low setpoint to trigger alarm	
OK	

Figure 14: PID Controller alarm setup

Omega Link Smart Device Password

Note: It is not required to set a password for your Omega Link Devices.

Some Omega Link Smart devices, such as Smart Probes and Wireless Smart Interfaces (such as the IF-006), allow users to lock the SYNC configuration features behind a password. When a Smart Probe is attached to an IF-006 with a matching password, the IF-006 will allow the probe data to be sent to the Omega Link cloud when integrated into an Omega Link ecosystem.

Caution:

Both passwords (Interface and Probe) must match to successfully connect to the Omega Link Cloud. Devices with mismatched passwords will not have cloud access. After 3 failed login attempts, the device will power cycle before you can retry.

- When setting a password, if both passwords do not match, users will have the option to automatically update both passwords to match. Once a password is set, users will be required to log in to that device before they are able to make changes to the configuration.
- To set a password for your Omega Link Wireless Smart Interface, navigate to the Device Settings tab of the SYNC interface.


Step 1:

From the Device Settings Tab, click Set Password under Interface Settings or Sensor Settings, depending on which you wish to configure first.

Interface Settings		
Interface Type	Omega Sub GHz 915 MHz	Additional Settings
User Hours	0	Reset User Hours
Set Password	Factory Reset	Firmware Update

Figure 15: Interface/Device Settings SYNC UI

Step 2: Create a password and click Save Password.



Configuration Password

New Password:

Confirm Password:

Save Password Clear Password

If your sensor is password protected, enter the password here to enable communication to the Cloud

The dialog box is titled 'Configuration Password'. It contains two text input fields: 'New Password:' and 'Confirm Password:'. Below these fields are two buttons: 'Save Password' and 'Clear Password'. At the bottom, there is a paragraph of text: 'If your sensor is password protected, enter the password here to enable communication to the Cloud'.

Figure 16: Device Password configuration

Step 3: If your passwords do not match, you will be able to sync them now.



Info

Do you want to Update the Interface Password as well??

If the Interface Password does not match the Sensor Password data will not be sent to the Cloud.




Yes No

The dialog box is titled 'Info' with a close button (X) in the top right corner. It contains a question: 'Do you want to Update the Interface Password as well??'. Below the question is a warning: 'If the Interface Password does not match the Sensor Password data will not be sent to the Cloud.'. At the bottom right, there are two buttons: 'Yes' and 'No'.

Figure 17: Password synchronization between Interface and device

Capture Data Interface

The Capture Data interface provides a chart that displays real-time data from connected devices. Additionally, the Capture Data interface contains the following features:

Extract Data		Extracts data from the device data logger.
Start/Stop Recording		Toggles the real-time data display to on/off.
Export Data to CSV File		Gathers the data that has been recorded or extracted and saves it in a CSV file.

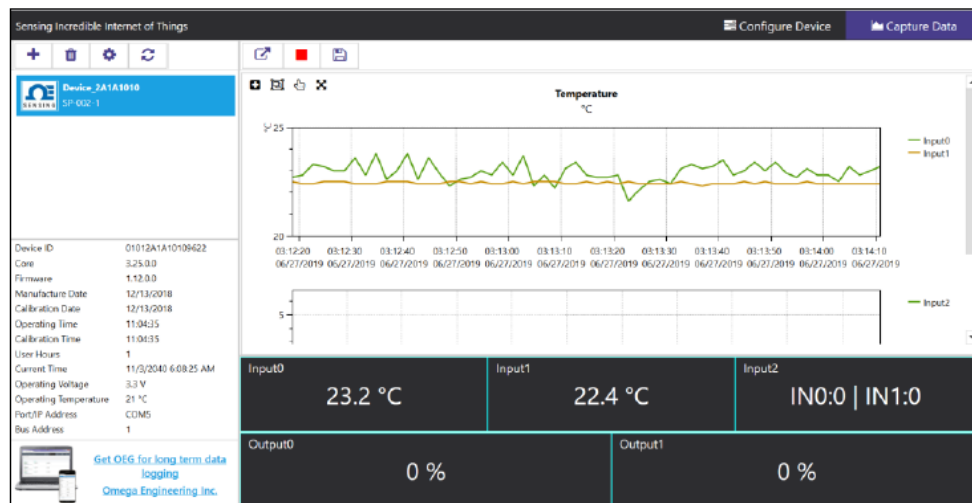






Figure 18: Capture Data SYNC UI

Note:

Data will be reset if the user switches to the Configure Device interface. SYNC's Data Capture feature is for short-term data logging. For long-term data logging, we recommend Omega Enterprise Gateway software.

SYNC provides four ways to navigate the Capture Data Interface:

Zoom by Rectangle		Allows the user to left click and drag the mouse across the graphed data to create a rectangle that will be zoomed in on.
Zoom by Middle Mouse Wheel		Allows the user to zoom in and out of the graphed data using the middle mouse wheel. This only applies to users have a mouse with the necessary mouse wheel feature.
Pan by Left Mouse Button		Allows the user to left click and drag on the graphed data to navigate in the direction of the mouse.
Reset		Resets the graphed data to the original position.

Appendix A – EULA

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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from the 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 the 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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 - Refractometers
 - Pumps & Tubing
 - Air, Soil & Water Monitors
 - Industrial Water & Wastewater Treatment
 - pH, Conductivity & Dissolved Oxygen Instruments
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Documents / Resources

	<p>OMEGA M6746-0223 SYNC Device Configuration Software [pdf] User Manual M6746-0223, M6746-0223 SYNC Device Configuration Software, SYNC Device Configuration Software, Device Configuration Software, Configuration Software, Software</p>
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References

- [Omega Engineering | Sensing, Monitoring and Control Solutions](#)
- [User Manual](#)