Application Note

EMX Sync App Interface Guide

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Applies To:	Senva EMX Series
Description:	Interface Guide for how to configure the EMX products using the Senva Sync Mobile App.

OVERVIEW

The Senva Sync Mobile App uses near-field communication (NFC) to interface with the EMX. Using the app you are able to configure device settings, communications settings, pull data logs, and even create templates that can be used to configure multiple devices without even having to remove the device from its packaging.

Contact Senva Tech Support at **(503) 462-1649** for any additional questions.

SCANNING DEVICE

1) Open the Sync App on your mobile device and press the "Scan Device" button
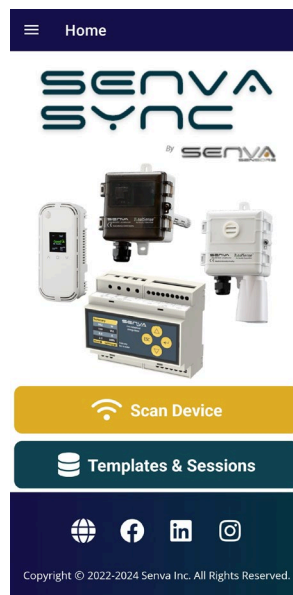
2) Hold the NFC scanner on your mobile device close to the EMX (NFC scanner is usually close to the camera on your mobile device). Note:

3) Once the EMX has connected, a green checkmark will be displayed on the App and then the main device information screen will display

DEVICE SETTINGS

1) Note: Reference the EMX Display Navigation Manual for details on each setting.

2) Select "Edit Settings" from the main menu.

EMX
Model: EMX
Firmware Version: 2.3.2

Edit Settings	✏️
Write Device	📋
Save Template	🗐
Logging	☰
Sync RTC	🕐

3) Metering:

Metering				
Phase Configuration	ABCN - 3 Phase			
Current Element	Current Transformer			
Current Scale Factor	100	Voltage fine tune scale	1	
Current Element Orientation	+++ (ABC)	Current fine tune scale	1	
Voltage Scale Factor	1	Real power fine tune scale	1	
Display units	IEC Units (P/Q/S)	Reactive power fine tune scale	1	

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4) Communications Settings:

Communications		
Communication Protocol	Modbus	✏️

Baud Rate	19200	✏️	BACnet Max Master Address	127	✏️
Modbus Parity and Stop	Even Parity 1 Stop Bit	✏️	BACnet Device Name	EMX-011101	✏️
Modbus Address	247	✏️	BACnet Device Description	Energy Meter	✏️
BACnet Device Instance	665000	✏️	BACnet Device Location	N/A	✏️
BACnet MSTP Address	0	✏️	BACnet Device Profile	665-Device-EMX	✏️

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5) Alarm Settings:

Alarms		
Voltage Out of Range Enable	Disabled	✏
Voltage Out of Range Nominal Value	240	✏
Voltage Out of Range Threshold	10	✏
Current Out of Range Enable	Disabled	✏
Current Out of Range Nominal Value	5	✏
Frequency Out of Range Threshold	10	✏
Voltage Phase Loss Enable	Enabled	✏
Voltage Phase Loss Threshold	10	✏
Voltage Imbalance Enable	Enabled	✏
Voltage Imbalance Threshold	10	✏
Low Power Factor Enable	Enabled	✏
Low Power Factor Threshold	0.5	✏

Current Out of Range Threshold	10	✏
Ground Current Out of Range Enable	Disabled	✏
Ground Current Out of Range Nominal Value	5	✏
Ground Current Out of Range Threshold	10	✏
Frequency Out of Range Enable	Enabled	✏
Frequency Out of Range Nominal Value	60	✏

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6) Logging Settings (Refer to EMX Modbus Manual for registers):

Logging		
Log Trigger	COMMs	✏️
Log Interval	300 Seconds	✏️
Log Mode	One Shot	✏️
Log Source 1	11	✏️
Log Source 2	12	✏️
Log Source 3	13	✏️

LOGGING RETRIEVAL

1) Click the "Logging" button to enter the menu for log retrieval:

EMX
Model: EMX
Firmware Version: 2.3.2

Edit Settings	✏
Write Device	📋
Save Template	🗐
Logging	☰
Sync RTC	🕐

2) Retrieve Logs:

← Retrieve Logs

Options

Logs to retrieve:

4096

Start Logging

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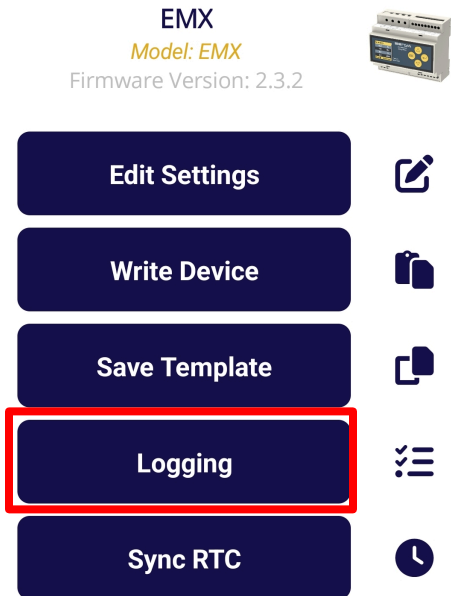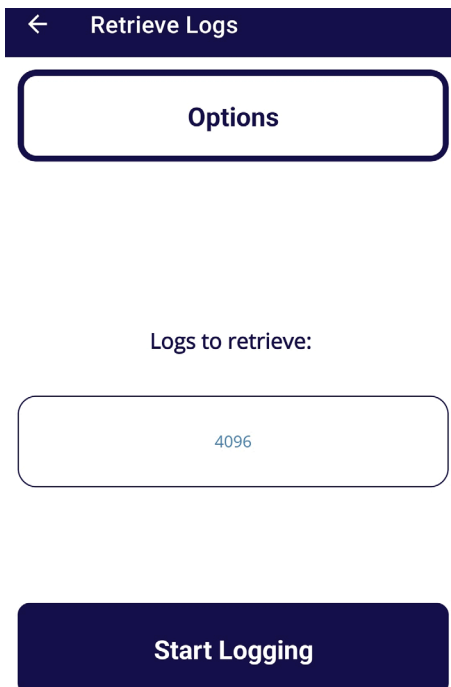
REAL-TIME CLOCK SYNC

1) Click the "Sync RTC" button to sync the EMX to the current date/time of your device:

EMX
Model: EMX
Firmware Version: 2.3.2

Edit Settings

Write Device

Save Template

Logging

Sync RTC

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WRITING UPDATES

1) Any settings that have been modified will be highlighted in Yellow. Once all desired settings have been changed, press the "Save" button.

Static Only		
Static IPv4	0.0.0.10	✎
Static DNS	1.0.0.0	✎
Static Gateway	0.0.0.0	✎
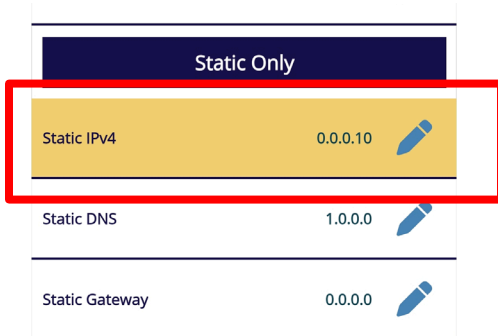
2) Click "Yes" to accept updates.

Save

Are you sure you want to save changes?
Old revert values will be lost.

Yes

No

3) Click the "Write Device" button.

EMX
Model: EMX
Firmware Version: 2.3.2

Edit Settings ✎

Write Device 📋

Save Template 📑

Logging ☑

Sync RTC 🕐

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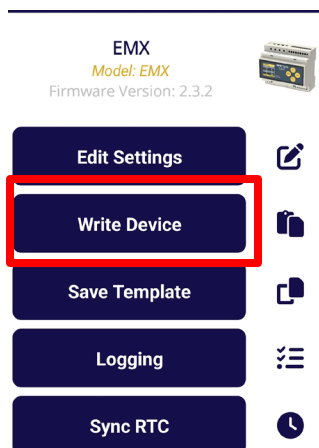
4) Select either "Single Device" or "Multiple Devices" depending on how many devices you are updating.

Write Continuously

Do you want to write to a single device or multiple devices?

Single Device

Multiple Devices

Cancel

5) Hold the NFC scanner on your phone close to the device, a green checkmark will pop up on the screen once it is connected and settings have been updated.

6) When updating multiple devices, you will be prompted to scan each device individually.

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TEMPLATE CREATION

1) When your device is configured as desired, click the "Save Template" button to create a template that can be used to configure additional devices with the same settings.

EMX
Model: EMX
Firmware Version: 2.3.2

Edit Settings
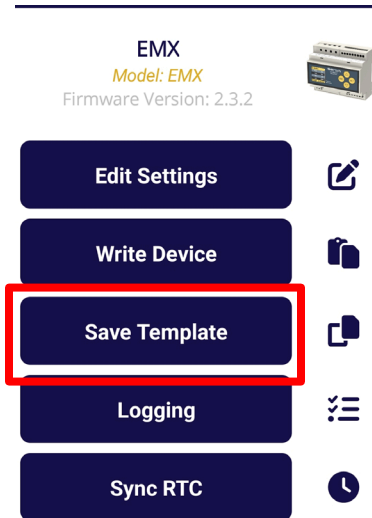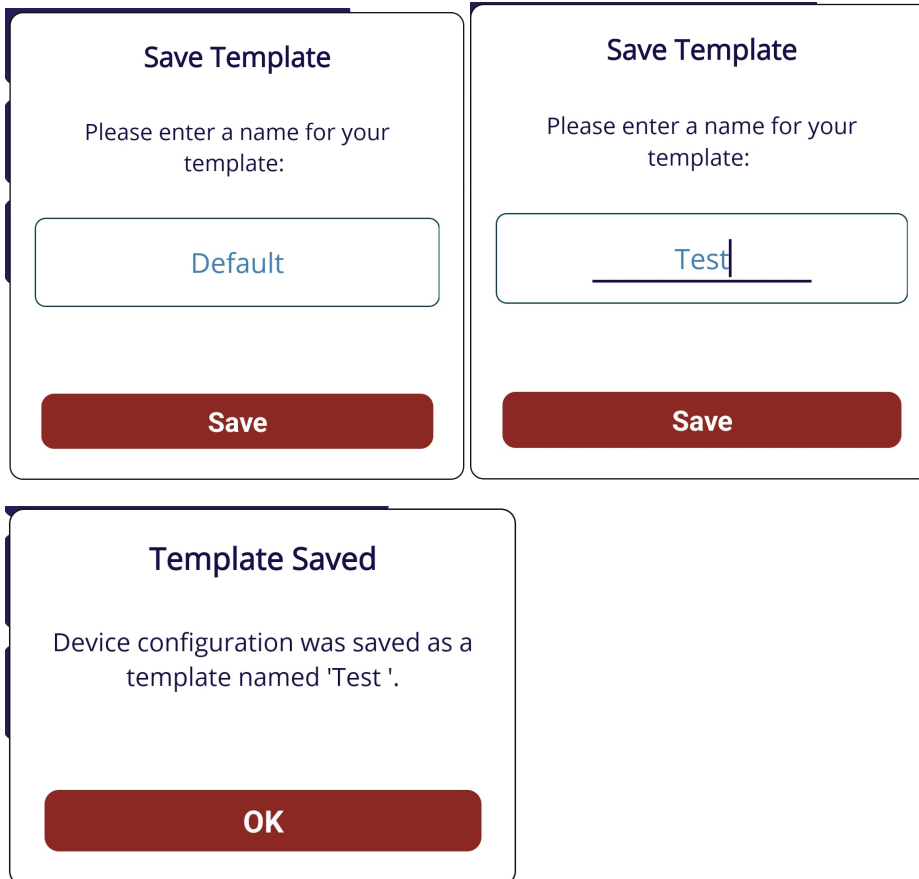
Write Device

Save Template

Logging

Sync RTC

2) Enter the desired name for your template (Default: "Default"). Click "Save" once done. Click "OK" to confirm that the template was saved.

Save Template

Please enter a name for your template:

Default

Save

Save Template

Please enter a name for your template:

Test

Save

Template Saved

Device configuration was saved as a template named 'Test '.

OK

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3) All Templates can be found by clicking on the "Templates & Sessions" button on the main app screen.

4) The Templates menu can be used to view available templates, modify settings, write to device(s), import new template files, export template files, and delete templates.