

NP200W-Wi-Fi Wi-Fi Tank Monitor User's Manual

Rev. 2.0
Date: 18th June 2020

| This manual belongs to: $_$ | | |
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| Company: | | |



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Thank You

Sena World, Inc. thanks you for purchasing this product and hopes that it can fulfil all your CNG controller needs now and in the future.





Revision History

| Version | Page | Date | Reason |
|---------|------|----------|-----------------|
| | | | |
| | | | |
| | | | |
| 1.0 | | 03/07/19 | Initial release |
| 2.0 | | 18/06/20 | Update |



Please Note:

Sena World, Inc. encourages and appreciates customer feedback regarding this document errors or improvements. If you have any questions regarding this manual or this product, please call or write to the following:

Please respond to:

Sena World, Inc. 10606 Shady Trail, suite 106 **Dallas, TX 75220**

Factory Tel: (972) 488-8724



Internet Home page: E-mail:

www.Sena World.com pateInp@sena-corp.com





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Introduction

SENA's NP200W offers "near real time" tank monitoring by utilizing the customer's local Wi-Fi network. The NP200W allows for remote wireless access to tank level information. Values are periodically transferred (frequency is user-defined) to the LCON site for customer web-based applications. The NP200W comes with an encryption capable Wi-Fi level transmitter. The LCON website is a secure web portal which gives customers multilevel global access to the NP-200 series tank monitors via the internet. The NP200 series of products can be used as a stand-alone monitoring and control system with built-in MODBUS protocol. Ideal for SCADA systems interface. The NP200W comes with an encryption capable Wi-Fi level transmitter. Click on links below for NP200W(Wi-Fi) series additional information and technical specifications.

NP200 inputs/outputs

- 4 Analog Input
- 4 Digital Input
- 4 Digital Output
- RS485 channel





Shipping Carton

- 1) NP200W-Wi-Fi
- 2) 8AA Battery
- 3) Manual
- 4) Warranty card
- 5) Mounting Screws



NP200W-LPG



Front Side





Battery

Warranty Card

Model: NP200W-Wi-Fi SN#: 03072019

Date:

Sold To:

Address:

Attn: Merchandize Warranty SENA Corporation 10606 Shady Trail Suite 106 Dallas, TX 75220





Figure 1





Install NP200W-WIFI unit

- 1. Survey site the NP200 is to be installed
- 2. Mark spot where unit is to be installed i.e. position of the 4 mounting holes
- 3. Using the appropriate screws, install the unit on the wall so that it is vertical
- 4. This mark should be about 2' or 600 mm from wall where unit is installed





Setup NP200 Unit

- Open the lid of Unit and plug the batteries as shown in the figure 2.
- To wake up system, customer needs to hold magnet in front of Red dot on the unit for 3 sec as shown in figure 3.
- Unit indicator LED will flash every one second
- When all (Green, Red, Orange) LED start flashing then it will create its own hotspot.
- Access your Wi-Fi network as administrator (figure 4)
- Unit number of the device will be one of the Wi-Fi networks choices on the Wi-Fi list for example "2001010".

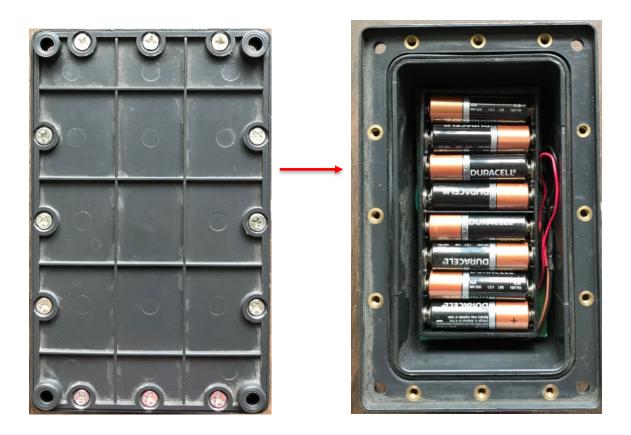


Figure 2







Figure 3



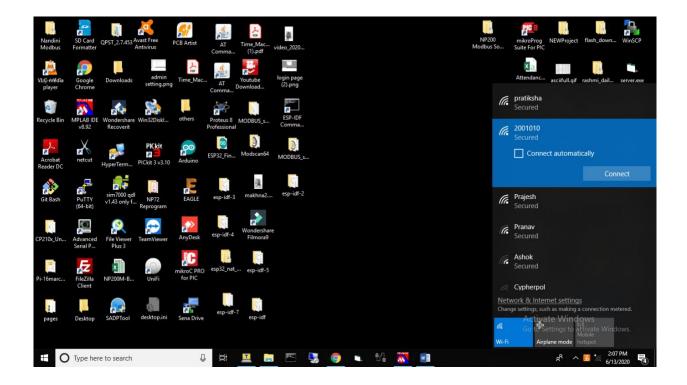


Figure 4

- Click on this network and enter password as "rslcon".
- When successfully connected, type IP address "192.168.4.1" in your Device browser. Time Period of the Wi-Fi hotspot is 1 min. After that it will go into sleep mode.
- This will result in display of NP200 Menu as shown below: (figure 5)







Figure 5

Page will show all the readings i.e. Analog Input, Digital Input, Digital Output, Counter. Menu will contain following fields:

- a. Server IP and Port: Customer does not have to enter these fields. It will be set default.
- b. SSID: Enter network name
- c. Password: Enter network Password
- d. Time Offset: Enter time offset for example for Dallas it is -24





NP200 Operations

Local Mode

- If Customer wants to access this unit locally then every time when he wants to check readings, he has to hold magnet on RED dot on box for 3 sec.
- Once it starts flashing 3 LED (Red, Green, Orange) then it create its own hotspot by its unit ID.
- Customer has to connect to this network using password "rslcon" and enter IP "192.168.4.1" on browser and check the readings.

Internet Mode

- If customer wants to access this unit on web browser (internet) then he needs to connect the unit to its network.
- For this follow "Setup NP200 Unit".
- Once you enter Network details and click on submit, it will send report to LCon.
- It will send report two times a day i.e. 5 am and 3 pm as per default setting.
- If any alarm is generated then it will wake up automatically and send report.
- If customer needs to change the report time then he can change it from "sena-corp.com" website.





LCON Operations

- 1) It is assumed here that customer Wi-Fi has internet access
- 2) Access your internet and go to sena-corp.com
- 3) In the upper right corner click on "Login"
- 4) Login into LCON with your credentials. (If you don't have login credentials please contact Sena Email:pateInp@sena-corp.com)
- 5) Click on "Submit" figure 6
- 6) LCON page will now display
- 7) Dashboard Page will now display. figure 7

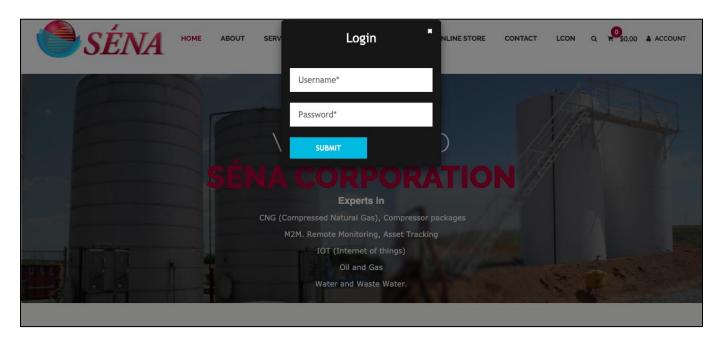


Figure 6





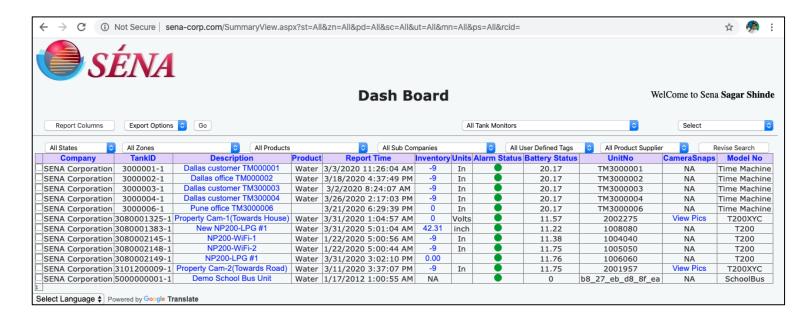


Figure 7





- 8) Identify the Unit and click on text in Description tab
- 9) Now Tank Information Page will open. (figure 8)

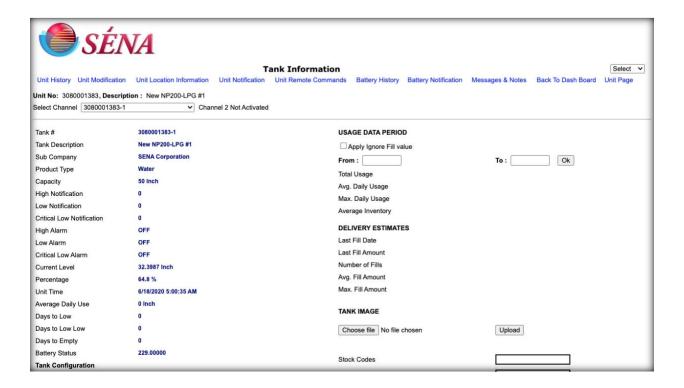


Figure 8

10) For check Report history click on hyper link "Unit History". You will navigate to Unit History Page. Figure 9.





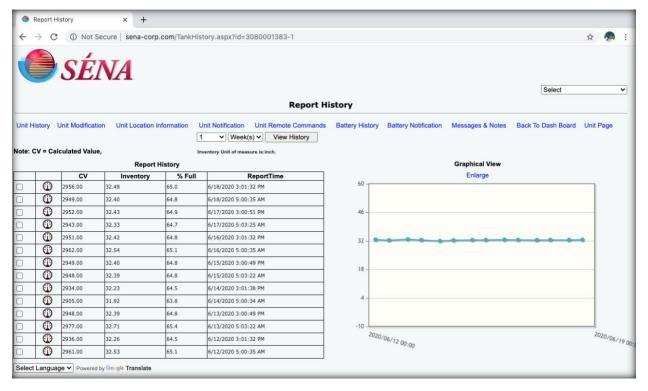


Figure 9

- 11) For Report Notification (Email alerts) click on hyper link "Unit Notification". You will navigate to Unit notification Page. Figure 10. (only Admin will have the access of this page)
 - For getting alerts on high and low readings. Please Fill the values in the fields (High-High, High, Low- Low, Low) that you think that reading will be alert reading. After That check the check mark. You can select the type of alerts like Hi-Hi, Hi, Lo-Lo, Lo, unit report, etc..





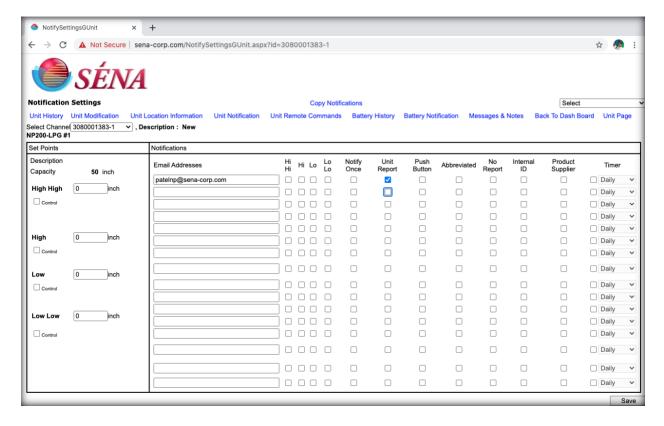


Figure 10

12) For changing Unit setting Remotely click on hyper link "Unit Remote Commands". You will navigate to Unit Remote Commands Page. Figure 11. (only Admin will have the access of this page)

You Can change the below fields remotely.

- UTC Date and UTC Time: Date should be in format YYMMDD and time should be in format HHMMSS
- Offset: You can change the offset values. For example, you want to set the offset -24 so you should have the enter 24 and if you want set +24 value should 124.
- **Individual Register Scanning**: For Scanning Only one type of registers you can press the buttons ScanAI, ScanDI, ScanDO, ScanRH
- **Reports Alarms**: Here is you have 12 options to set report time alarms. You have to set alarms in format HHMM. Also, if you want hourly report enter 9900 in one filed you will get hourly reports.





- Change Output's: You can change the output values by pressing available buttons. Means if current value is ON then you can press OFF button. If current values are OFF, then you press ON button.
- **ADC Alarms:** You set the High and Low alarm values. This value should be in integer format. You can set values for 8 channels. You can also delete the high and low alarm pressing Delete buttons.
- **Row Units:** You can set the Low and high row units (HRU, LRU) for 4 channels. This value should be in integer format.
- Engineering Units: You can set the Low and high Engineering units (HEU, LEU) for 4 channels. This value should be in floating format.

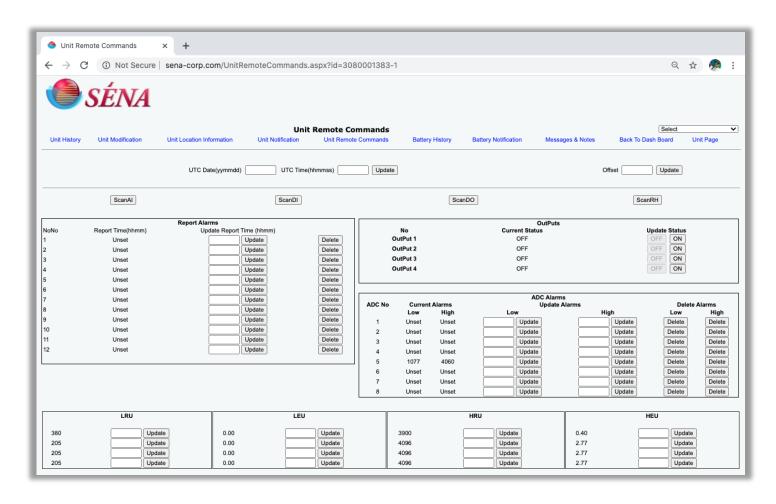


Figure 11





13) You can change the unit setting for calculation using Unit modification Page. This calculation is only for Lcon side. Visit this page by select hyper link "Unit Modification". Figure 12.

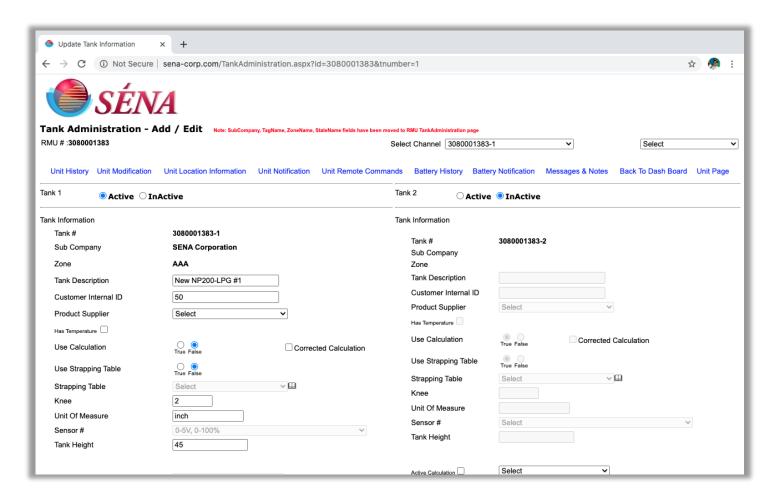


Figure 12





14) For check Battery history click on hyper link "Battery History". You will navigate to battery History Page. Figure 13.

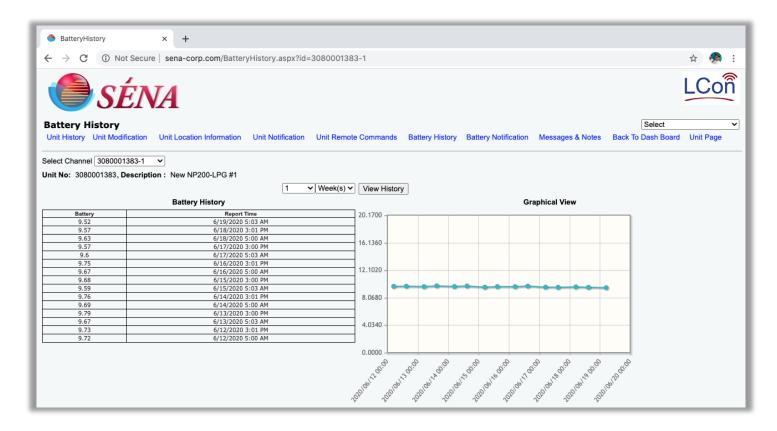


Figure 13

- 15) For Battery Report Notification (Email alerts) click on hyper link "Battery Notification". You will navigate to battery notification Page. Figure 14. (only Admin will have the access of this page).
 - For getting alerts on high and low battery readings. Please Fill the values in the fields (High- High, High, Low- Low, Low) that you think that reading will be alert reading. After That check the check mark. You can select the type of alerts like High-High, High, Low-Low, Low, unit report, etc..





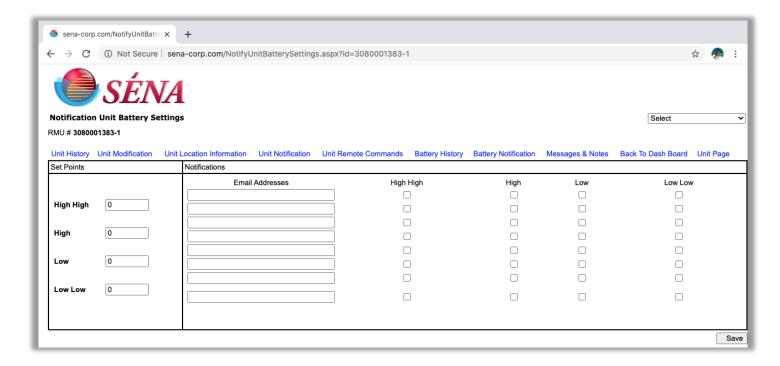


Figure 14





16) For seeing register values select "Unit page" hyper link. Figure 15

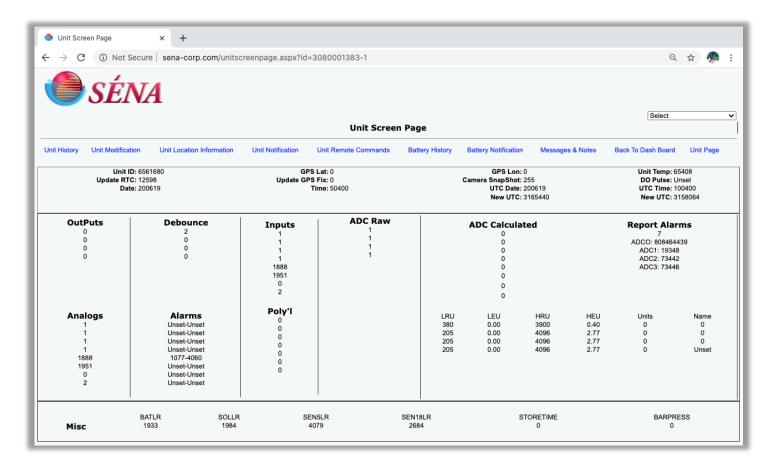
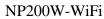


Figure 15







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