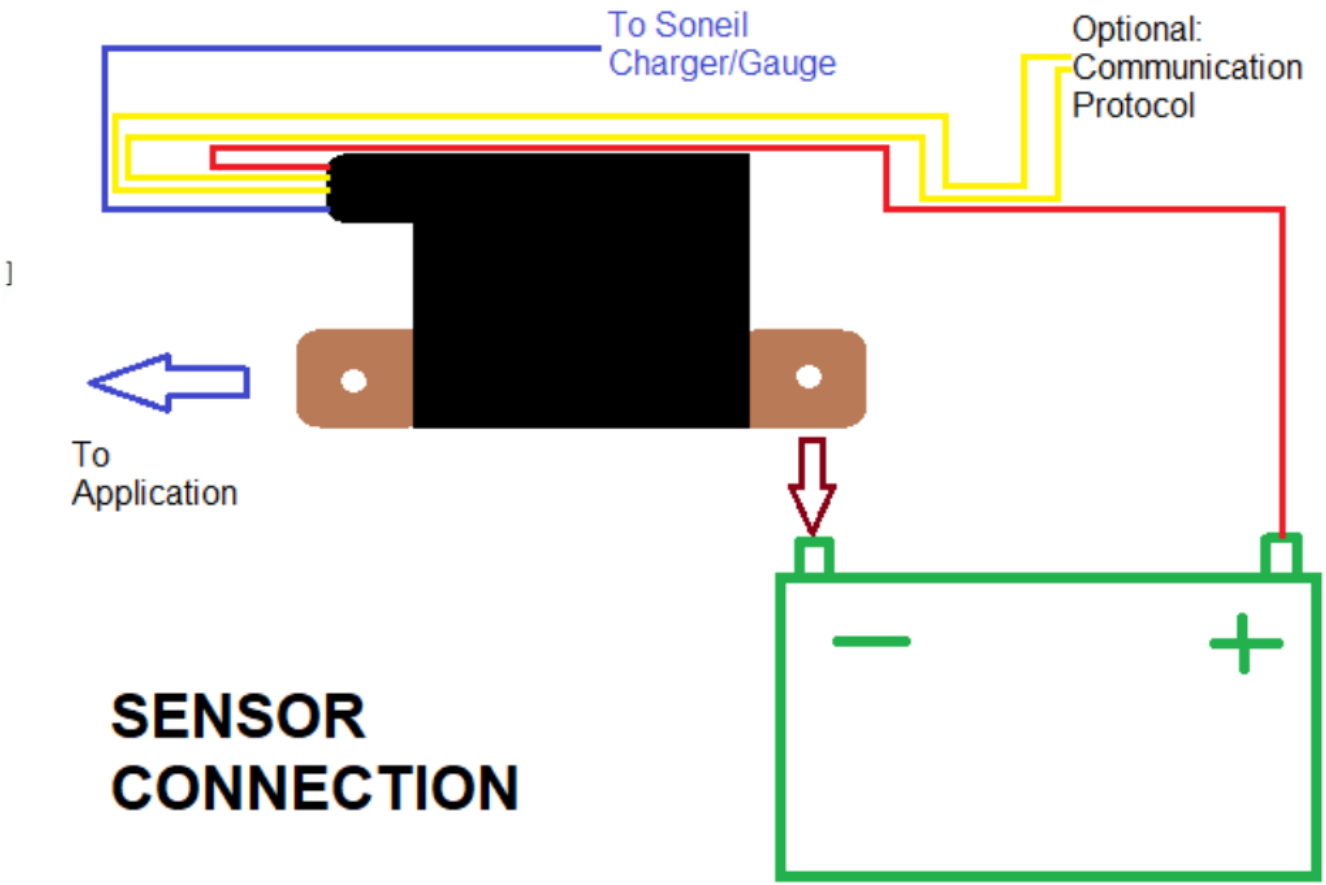
SONEIL ELECTRONICS

WI-FI BATTERY SENSOR

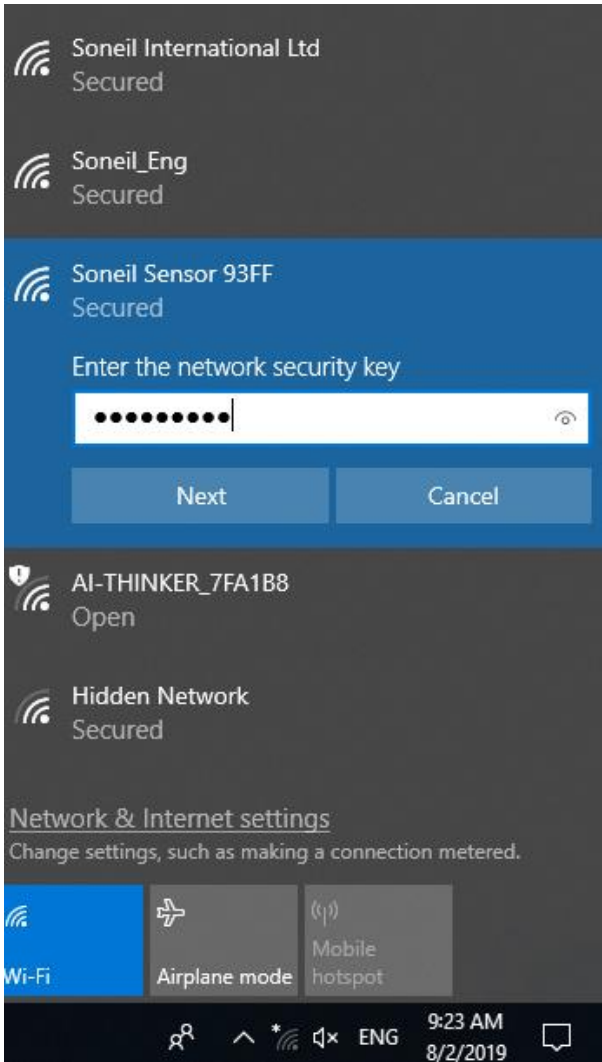
How to Connect

Connect the sensor as per the below diagram. B- of the Sensor to the B- of the Battery and the B+ (Red) Wire of the Battery Sensor to the B+ of the Battery to power the sensor



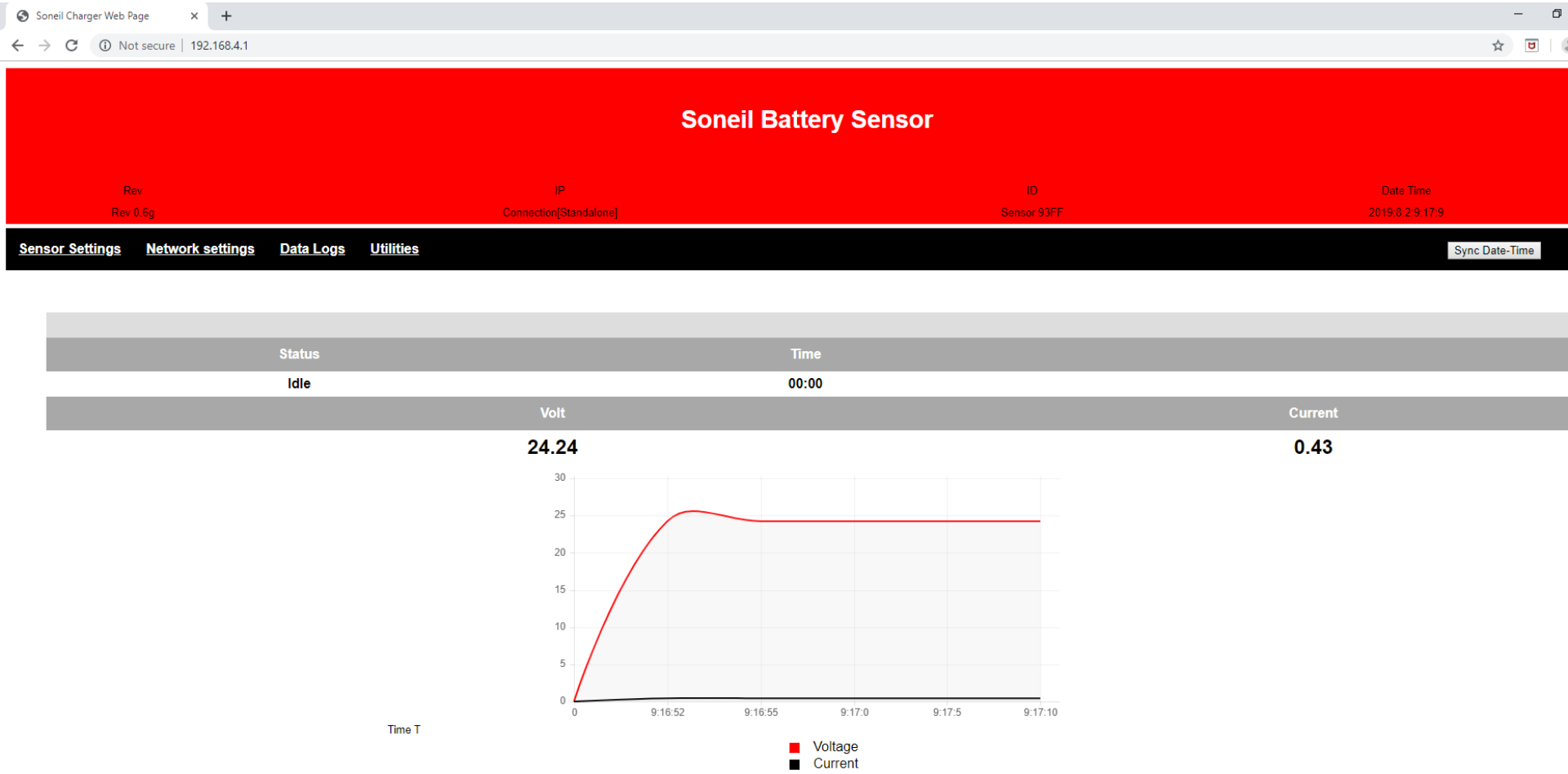
How to Connect

- Connect the Sensor to the Battery as per previous slide.
- Open Wi-Fi Connections on the computer and select the Soneil Sensor ****
- Enter the SSID password (Default:soneil123)



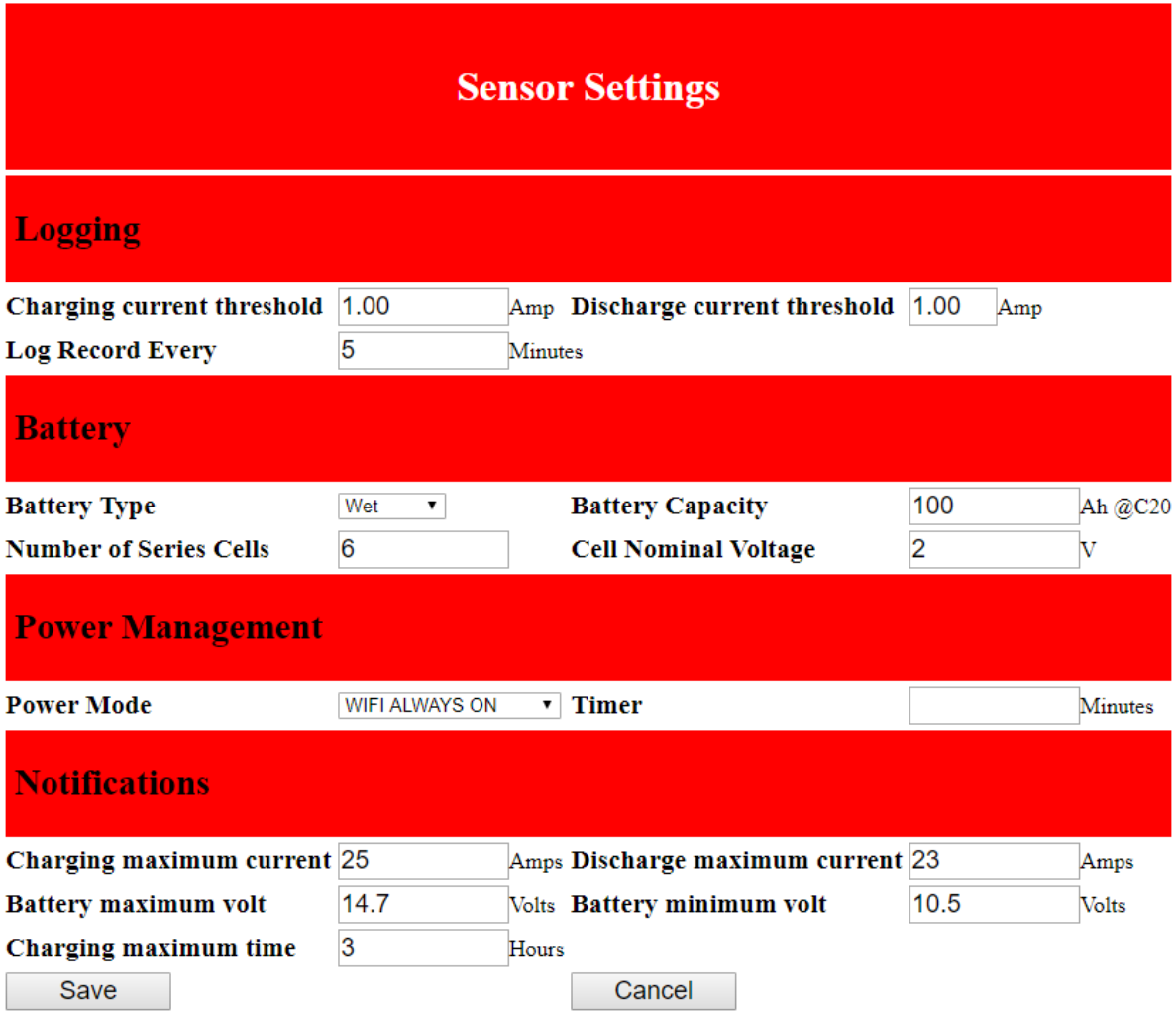
How to Connect

- Open any Web Browser
- Type the default IP :192.168.4.1



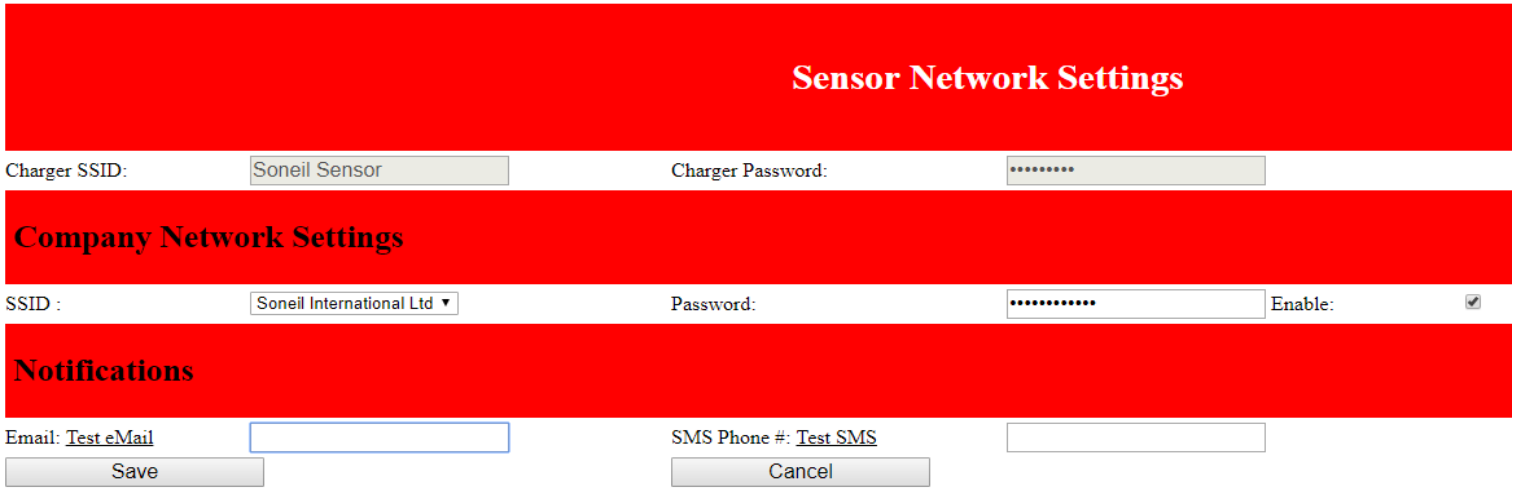
Sensor Settings

- You can set the Battery Capacity and other setting as per your requirement.
- To get set notifications by Email/sms you can set the values at which you want to get the alerts.



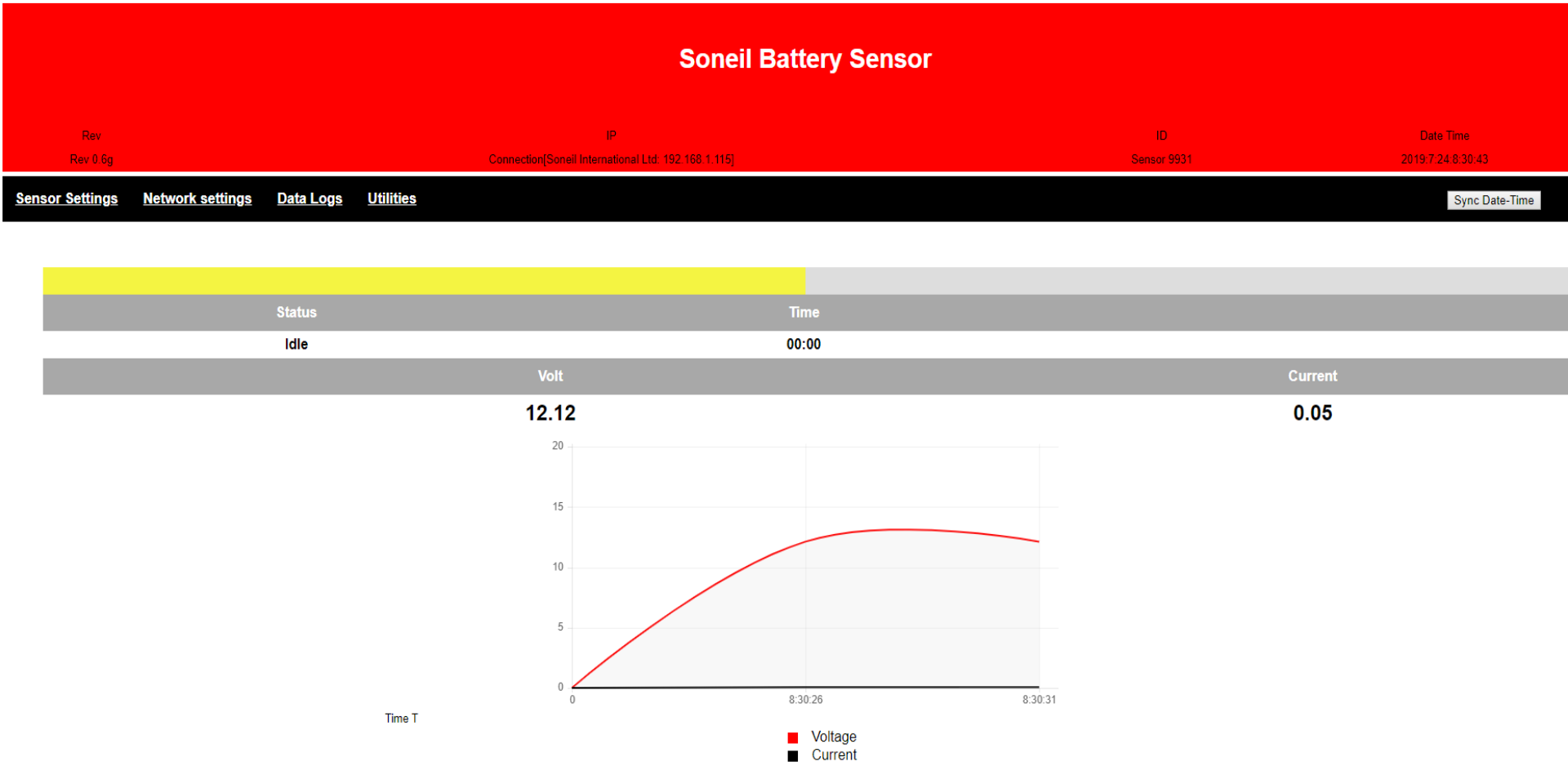
How to Connect

- Click on Network Settings
- In Company Network setting, select company SSID, add password to link your Battery Sensor to the company network and Click “Enable” and “Submit”
- To receive the Notifications add the Email ID and SMS Phone No. of the respective person concerned. Phone No: Start with Country Code without "+"



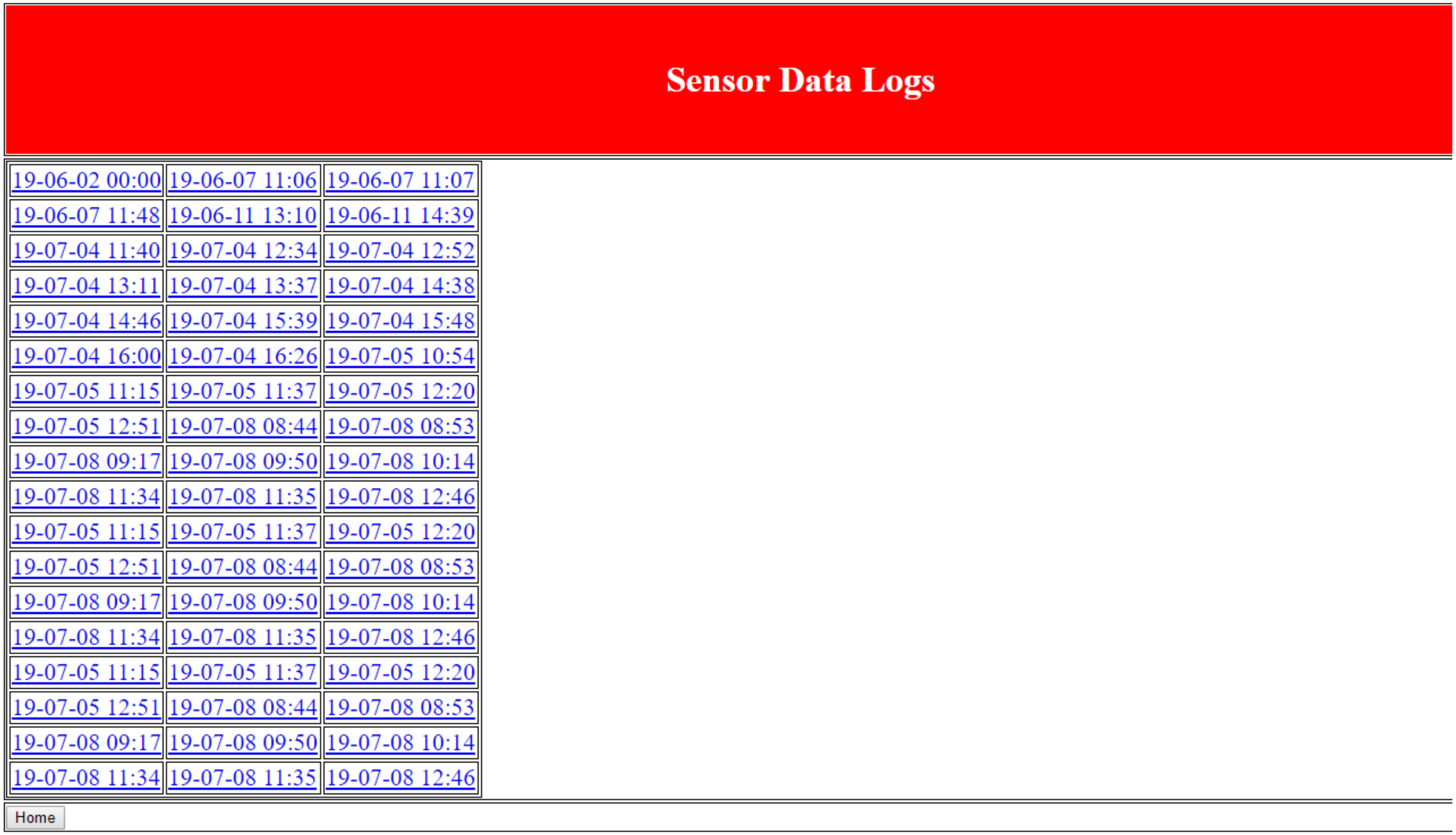
*Example SMS Phone # : 19055650360

Main Page



- On the main display page, you can now see the Sensor IP address for accessing the sensor through the Company Network: i.e. 192.168.1.115

Data Logs



Sensor Data Logs

19-06-02 00:00	19-06-07 11:06	19-06-07 11:07
19-06-07 11:48	19-06-11 13:10	19-06-11 14:39
19-07-04 11:40	19-07-04 12:34	19-07-04 12:52
19-07-04 13:11	19-07-04 13:37	19-07-04 14:38
19-07-04 14:46	19-07-04 15:39	19-07-04 15:48
19-07-04 16:00	19-07-04 16:26	19-07-05 10:54
19-07-05 11:15	19-07-05 11:37	19-07-05 12:20
19-07-05 12:51	19-07-08 08:44	19-07-08 08:53
19-07-08 09:17	19-07-08 09:50	19-07-08 10:14
19-07-08 11:34	19-07-08 11:35	19-07-08 12:46
19-07-05 11:15	19-07-05 11:37	19-07-05 12:20
19-07-05 12:51	19-07-08 08:44	19-07-08 08:53
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You can get the Charging/Discharging Curve Logs (Excel Format) from the log file:
Each charging/discharging cycle will be a separate log file with the date and time stamp
Click on the Log File you want to View and open the .csv file in excel.

Data Logs

A1 | Charge cycle# 1

	A	B	C	D	E	F	G
1	Charge cycle# 1						
2	RecId	Time	Volt	Current	Temperat	AmpH	WattH
3	19	'00:08	13.881	2.366	0	0.118	1.642
4	20	'00:12	13.881	2.312	0	0.116	1.604
5	21	'00:16	13.881	2.366	0	0.118	1.642

A1 | Discharge cycle# 1

	A	B	C	D	E	F	G	H
1	Discharge cycle# 1							
2	RecId	Time	Volt	Current	Temperat	AmpH	WattH	
3	25	'00:08	23.265	-23.763	0	-1.584	-36.857	
4	26	'00:12	23.069	-23.763	0	-1.584	-36.547	

When you download the Log file, it will open in Excel Format.

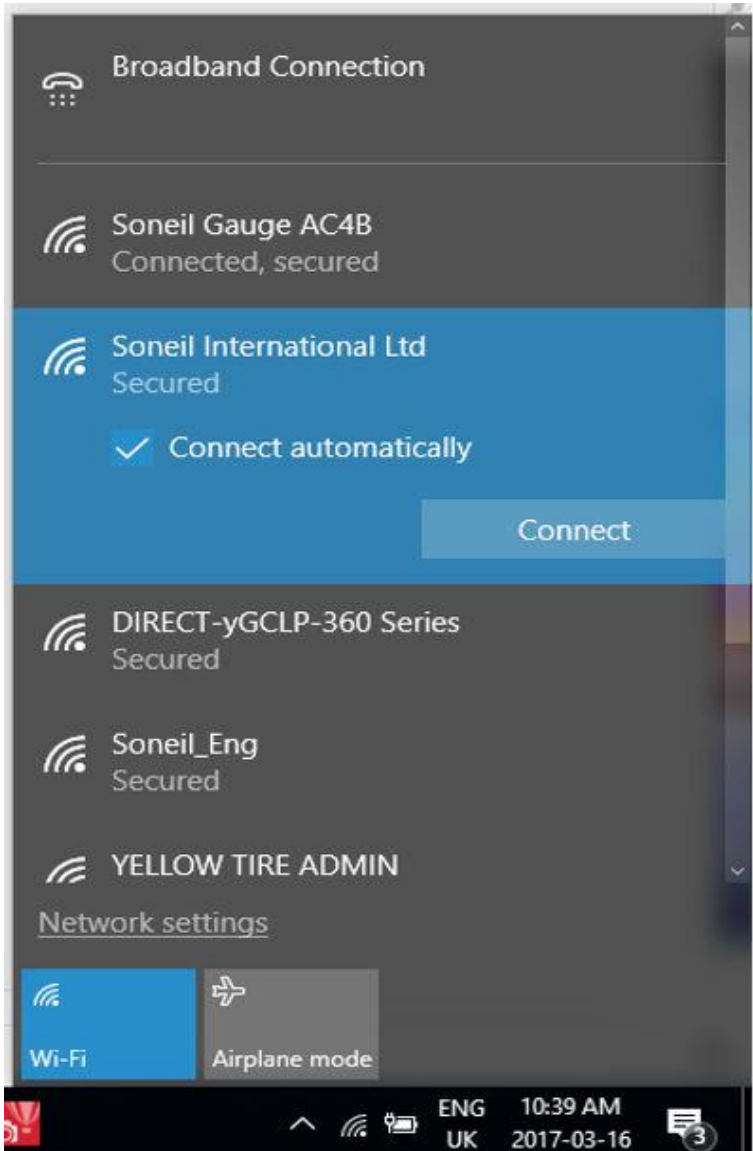
You can plot the curve as per your requirement.

The Battery Sensor is now connected to your Company Network

<u>Now you can Log onto your Sensor without logging onto the Sensor Wi-Fi SSID</u>

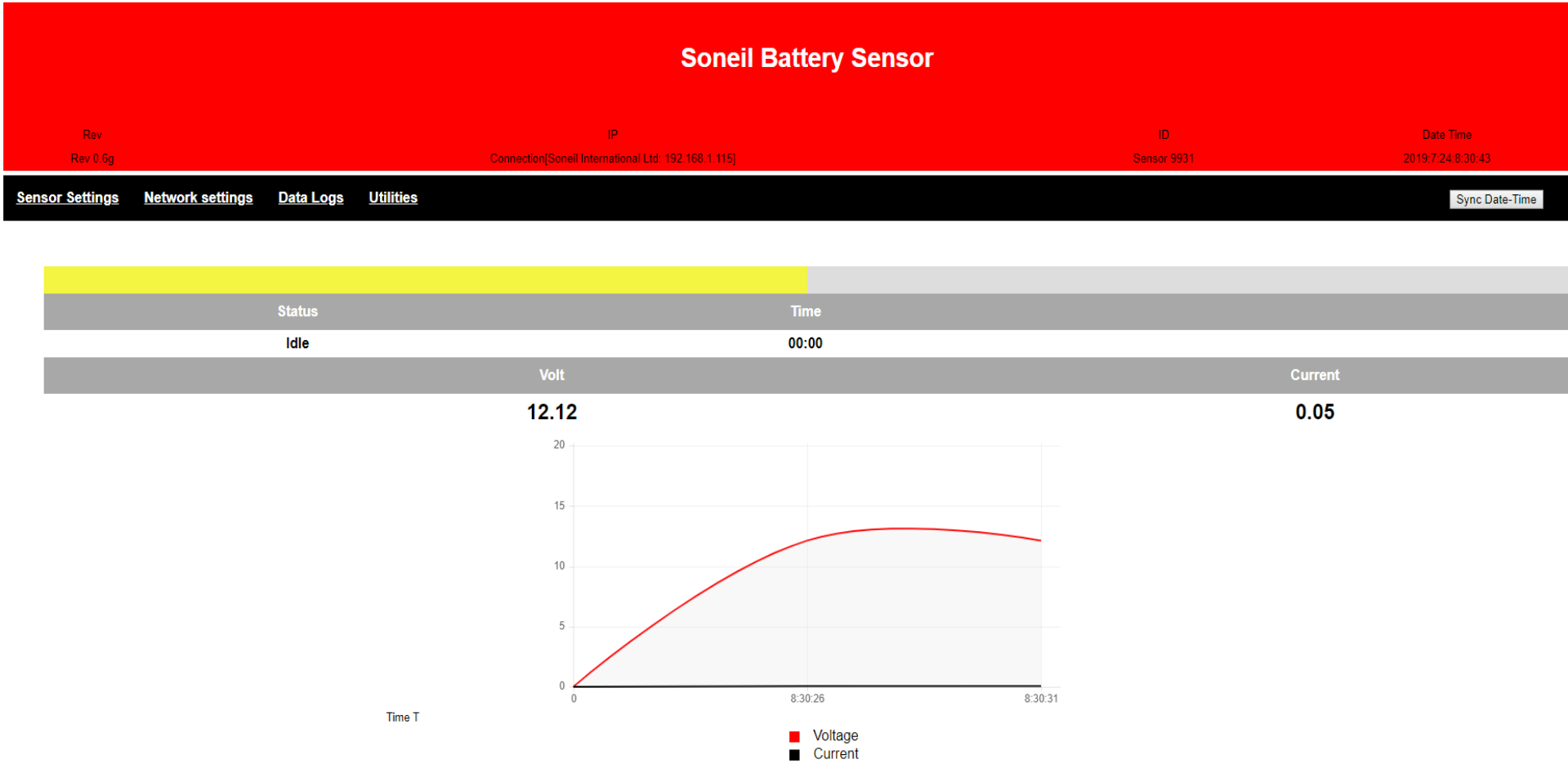
Connect Through Company Network

- Open Wi-Fi Connections on the computer and select your Company Network.



Main Page

- Open any Web Browser
- Type the IP Address as per Slide 7 i.e. 192.168.1.115, which is the Sensor IP address on your Company Network



Sensor Setting Modifications Remotely

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Sensor Settings

Logging

Charging current threshold	1.00	Amp	**Discharge current threshold**	1.00	Amp
Log Record Every	5	Minutes			

Battery

Battery Type	Wet		**Battery Capacity**	100	Ah @C20
Number of Series Cells	6		**Cell Nominal Voltage**	2	V

Power Management

Power Mode	WIFI ALWAYS ON		**Timer**		Minutes

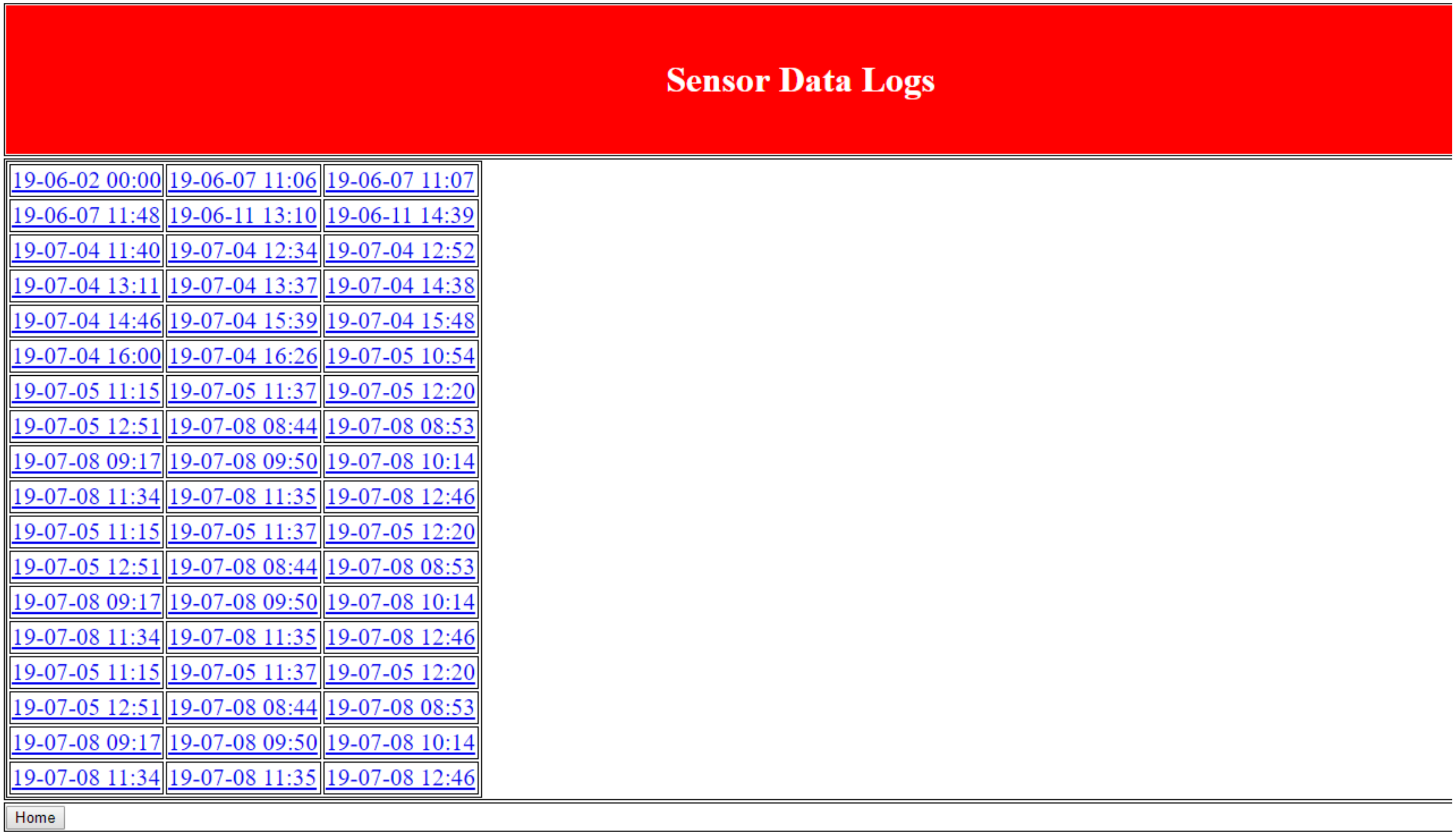
Notifications

Charging maximum current	25	Amps	**Discharge maximum current**	23	Amps
Battery maximum volt	14.7	Volts	**Battery minimum volt**	10.5	Volts
Charging maximum time	3	Hours			

Save Cancel

- You can now change the sensor settings remotely through your company network

Data Logs



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THANK YOU