

Master-800 Quick Guide

Technical Support: tech@batterydaq.com

Updated on 2020-12-07

Master-800 provides a centralized dashboard to manage up to 999 battery banks per unit.



Optional 19" rack mounting

11101 Gilroy Road, Ste. 1
Hunt Valley, Maryland 21031-1330
United States

TEL +1 800-455-8970
FAX +1 484-687-9904
www.batterydaq.com



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Key Features:

- 1) Faster than PC software.
- 2) Automated pulling data from remote units in a network.
- 3) Analyze real-time data and presents on a summary table for all battery banks.
- 4) Generate alarms against set thresholds.
- 5) Highlight battery banks with SERVICE and UREGNT alarms.
- 6) Deliver alarm via email to multiple receipts.
- 7) Log and display recent 100 alarms.
- 8) Sort all battery banks with each column to prioritize service.
- 9) Access from anywhere in the same network with any web browser.
- 10) Allows multiple users at the same time without installation of software.
- 11) Easy to silence alarm for a battery bank for a known situation.

As BatteryDAQ continues to develop more convenient functions, user can upgrade firmware once new version is released.



1. IP address setting

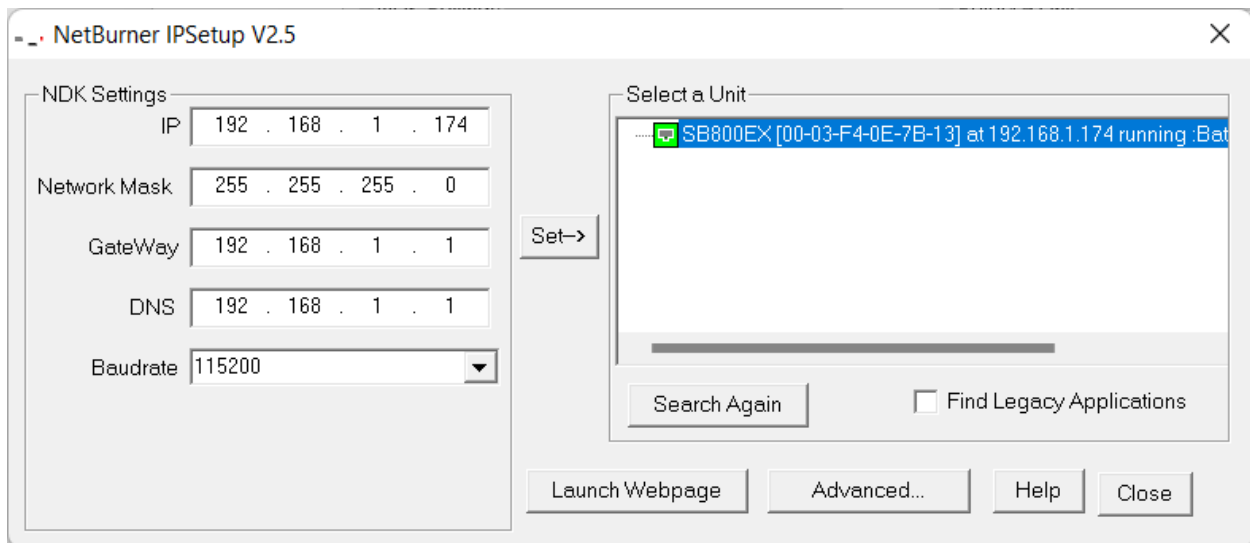
Download IpSetup.exe from BatteryDAQ website:

<https://batterydaq.com/tech/IpSetup.exe>

or

<https://batterydaq.com/tech/IpSetupV21.zip>

Connect the Master-800 unit to your network, power on the unit, Run IpSetup.exe to search for the unit.



Select/highlight the “BatteryDAQ Master800”.

Assign this unit a static IP. Set to correct Mask and Gateway.

Click “Set” to save to unit.

Wait for a minute, search again, it shall have the new IP settings.

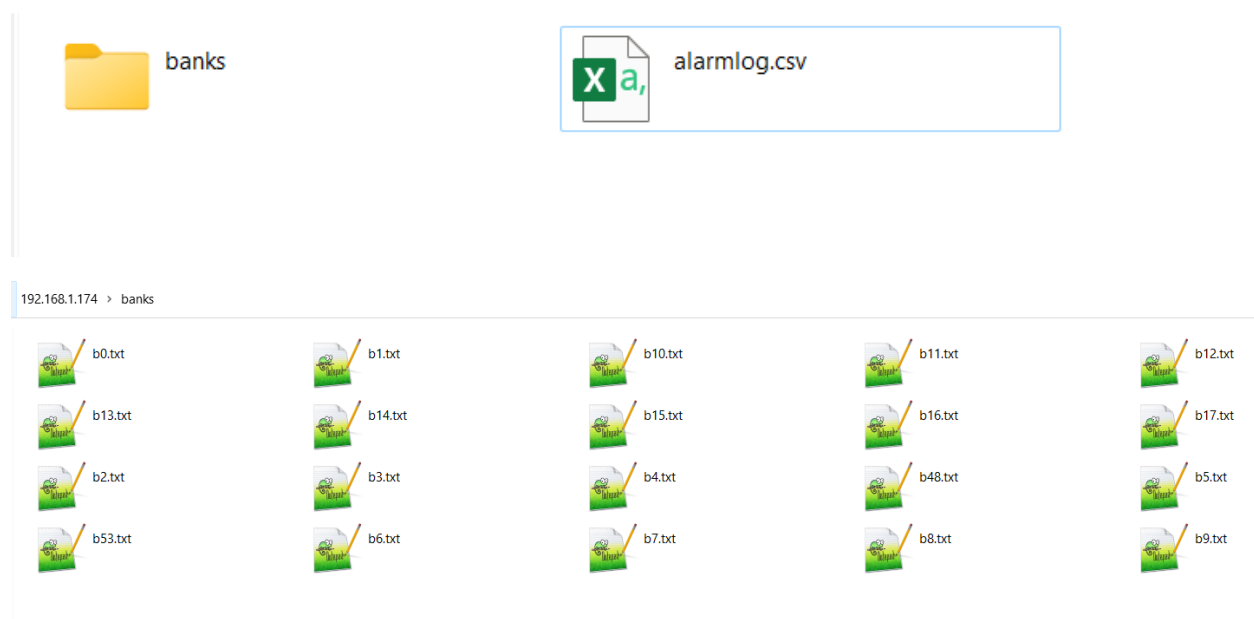


2. Battery Bank Configuration

The configuration information for sites and battery banks can be managed as an Excel sheet "**Banks.csv**" on your local computer. If you have made any change via Master-800 web interface, then you shall download an updated Banks.csv file from Master-800 and save it in local disk for backup.

The individual bank information is stored on SD card. .../banks/b*.txt. Each bank has its own b*.txt file. Those files can be accessed via ftp. FTP example: <ftp://192.168.1.16>

192.168.1.174



2.1 Prepare Bank Settings

Follow the template, to add/delete battery bank. Do NOT add/delete column.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Silent	DTUID	Name	IP	MID	TCP	Battery#	AlarmType	lrBaseline	WireMode	Install	Model	Latitude	Longitude	Notes
2	0	12103	UPS-T1	192.168.1.9	1	1	40	6	500	1	2012.08	SBS-190F	47.35919	-118.701	Note
3	0	12104	Substation	192.168.1.222	1	1	24	2	300	2	2012.05	SBS-190F	42.23683	-88.608	Note
4	0	12105	Telecom	192.168.1.202	1	1	24	2	0	2	2012.12	SBS-190F	19.85211	-155.856	Note
5	0	12107	Substation	10.16.100.24	1	0	120	2	0	2	2012.08	SBS-190F	19.48236	-154.882	Note
6	0	12107	Substation	10.16.100.25	4	0	180	2	300	2	2012.12	SBS-190F	46.57867	-118.995	Note
7	0	12109	Substation	10.16.100.24	1	0	24	2	300	2	2012.12	SBS-190F	37.07061	-94.4699	Note
8	0	12110	Substation	10.16.100.24	1	0	24	2	300	2	2012.08	SBS-190F	35.02631	-93.3889	Note
9	0	12112	Substation	10.16.100.25	1	0	24	2	300	2	2012.12	SBS-190F	33.4175	-110.876	Note

Silent	DTUID	Name	IP	MID	TCP	Battery#	Alarm Type
0	12103	UPS-T1	192.168.1.9	1	1	40	6
0	12104	Substation-4	192.168.1.222	1	1	24	2
1	12105	Substation-5	71.166.97.202	1	1	24	2
0	12107	Substation-7	10.16.100.24	1	0	120	2
0	12107	Substation-8	10.16.100.25	4	0	180	2

Table continues with columns:

11101 Gilroy Road, Ste. 1
Hunt Valley, Maryland 21031-1330
United States

TEL +1 800-455-8970
FAX +1 484-687-9904
www.batterydaq.com



IrBaseline	Wire Mode	Install Data	Model	Latitude	Longitude	Notes
500	1	2012.08	SBS-190F	47.35919	-118.701	Note
300	2	2012.05	SBS-190F	42.23683	-88.608	Note
0	2	2012.12	SBS-190F	19.85211	-155.856	Note
400	2	2012.08	SBS-190F	19.48236	-154.882	Note
0	1	2012.12	SBS-190F	46.57867	-118.995	Note

This is a csv file so Name and any column other than Notes cannot have comma “,” in the content.


Silent	0 (Default) - Normal Notification; 1 - Alarm Notification Disabled. -1 for inactive bank, no data update, not listed on Concise View [For Oct-2022 or earlier version, this column was an index number. It must be corrected before upload to new version.]
DTUID	MID is the bank number (unit#) on DTU or matched MID on DAS software while using Modbus-TCP.
Name	Site and Battery Bank name, max 20 chars
IP	IPv4 address only
MID	unit ID on DTU (If utilize UDP, then it is the Modbus ID)
TCP	set to 1 (default) if you can access the Sentry units in your network. Otherwise set to 0 for receiving data from Sentry unit. In that case, the Sentry units need to set host IP as Master-800's static IP.
Battery#	Max 240
Alarm Type	Keep consistent with the alarm type on Master-800 settings ../AlarmSettinngs.htm
IR Baseline	Set to 0 (Default) for using average, otherwise set to a value, minimum 30. No decimal, input 999 for 0.999mohm@2V and 9.99@12V
Wire Mode	1 - 1-wire mode; 2 - 2-wire mode with inter-cell connection resistance
Install Date	Input as a decimal between year and month, for example 2019.08
(Battery) Model	Max 20 chars
Latitude	GPS Latitude, check from Google Map if not available
Longitude	GPS Longitude
Notes	Notes is the last column; it can have comma in its content. Max 50 chars

Save Excel sheet as csv file for uploading.



2.2 Upload Bank.csv to Master-800

Navigate to Help page



Master-800 Dashboard

[Map](#) | [Table](#) | [Alarms](#) | [Settings](#) | [Help](#)

Site Configuration


The configuration information for sites and battery banks can be downloaded for backup and/or edit. ([Download Banks.csv](#))

To perform a batch update, prepare all sites/banks in csv file. The column heads (1st row) must be same as downloaded csv file.

Go to upload page [Upload Banks](#)

You may edit/update individual battery bank. Data/information will be saved in SD card. Download for backup if you made changes.

← → ↻ ⚠ Not secure | 192.168.1.174/upload.htm



Master-800 Dashboard

[Map](#) | [Table](#) | [Alarms](#) | [Settings](#) | [Help](#)

Upload csv file for Battery Banks

Download existing settings to backup before upload ([Download Banks.csv](#))

Select firmware file with the "Choose File" button below.

Click "Upload Banks" and wait for it to finish uploading.

IMPORTANT: The filename must be **"banks.csv"**.

Select firmware file: No file chosen

Only authorized person can upload settings for battery banks.


Wait for completion. Refresh webpage to check. It shall reflect the new configurations.

← → ↻ ⚠ Not secure | 192.168.1.174/BANKPOST.htm

Silent	DTUID	Name	IP	MID	TCP	Battery#	AlarmType	IrBaseline	WireMode	Install	Model	Latitude	Longitude	Notes
0	12103	UPS-T1	192.168.1.9	1	1	40	6,500	1	2012.08	SBS-190F	47.3591944	-118.701083	Note	0
0	12104	Substation-4	192.168.1.222	1	1	24	2,300	2	2012.05	SBS-190F	42.2368333	-88.6079722	Note	0
0	12105	Telecom	192.168.1.151	1	1	24	2,0	2	2012.12	SBS-190F	19.8521111	-155.856277	Note	0
0	12107	Substation-7	10.16.100.24	1	0	120	2,0	2	2012.08	SBS-190F	19.4823611	-154.881666	Note	0
0	12107	Substation-8	10.16.100.25	4	0	180	2,300	2	2012.12	SBS-190F	46.5786666	-118.994638	Note	0
0	12109	Substation-9	10.16.100.26	1	0	24	2,300	2	2012.12	SBS-190F	37.0706111	-94.4699444	Note	0
0	12110	Substation-10	10.16.100.27	1	0	24	2,300	2	2012.08	SBS-190F	35.0263055	-93.3888611	Note	0
0	12112	Substation-12	10.16.100.28	1	0	24	2,300	2	2012.12	SBS-190F	33.4175	-110.87601	Note	0
0	12113	Substation-13	10.16.100.29	1	0	24	2,300	2	2012.12	SBS-190F	29.2405555	-100.086444	Note	0
0	12304	BatteryDAQ Lab	71.166.101.130	1	1	8	6,300	1	2012.12	SBS-190F	39.487359	-76.660019	Note	0
0	12304	BN-1	72.167.223.197	10	1	4	6,300	1	2012.12	SBS-190F	28.6904722	-100.490277	Note	0

11101 Gilroy Road, Ste. 1
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Web page will display the uploaded content. Click ← to go back and check the table. For Consize View, it only displays active banks. With Full Table view, it will display all banks including deactivated.

If the SNMP is enabled, you must restart DTU to update configuration. On [Settings](#) page, type Passcode **77882** to restart.

Wait for a minute, unit shall have new configuration loaded.

Bank settings and information can be updated online. (See details in “**Individual Bank View**”.)



3. Device Settings

Server Settings | [Alarm Settings](#) | [SNMP Settings](#)

#	Description	Value	New Value
1	Server ID	61000012	<input type="text" value="61000012"/>
2	Server Name	Master-800 Dashboard	<input type="text" value="Master-800 Dashboard"/>
3	Enable Secure Mode(Y/N) (1/0) Enable: Web pages are password protected.	0	<input type="text" value="0"/>
4	Web Password (Case Sensitive)	Username: master or admin	<input type="password" value="...."/>
5	UDP Data Expiration(minutes)	60	<input type="text" value="60"/>
11	0:Celsius/1:Fahrenheit	0	<input type="text" value="0"/>
12	Site Type	1	<input type="text" value="1"/>
13	0:RS485/1:Wireless	1	<input type="text" value="1"/>
21	Email SMTP Server	mail.batterydaq.net	<input type="text" value="mail.batterydaq.net"/>
22	Email Server Port Set 0 to disable email	25	<input type="text" value="25"/>
23	Email TLS(N/Y/Plain) (0/1/2)	1	<input type="text" value="1"/>
24	Email From	alarm_notice@batterydaq.net	<input type="text" value="alarm_notice@batterydaq.net"/>
25	Email Username	alarm@batterydaq.net	<input type="text" value="alarm@batterydaq.net"/>
26	Email Password	-	<input type="password" value="....."/>
27	Email Receipt-1	alarm@batterydaq.net	<input type="text" value="alarm@batterydaq.net"/>
28	Email Receipt-2	.	<input type="text" value="."/>
29	Email Receipt-3	.	<input type="text" value="."/>
31	Time Zone UTC +/-	-5	<input type="text" value="-5"/>
32	Date/Time (set DNS for NTP) (-1 hour for Daylight Saving)	12/7/2022 15:43:29	<input type="text" value="12/7/2022 15:43:29"/>
41	Home Latitude	39.487320	<input type="text" value="39.487320"/>
42	Home Longitude	-76.660004	<input type="text" value="-76.660004"/>
43	Initial Zoom(5-18)	8	<input type="text" value="8"/>

If you wish to use your own mail server, please fill in correct information for #7 to #12. Type passcode **2222** to send a test email.

Save settings with code **7777**.

If only change the date/time, save it with code **7778**.



Reference for Settings

#	Description	Example	Notes
1	Server ID	13999	Factory assigned SN number. User cannot change.
2	Server Name	East Region Battery Dashboard	Max 29 chars
3	Enable Secure Mode(Y/N) (1/0)	0	Enable: Web pages are password protected.
4	Web Password (Case Sensitive)	Username: master or admin	Be careful. BatteryDAQ doesn't know your passcode if you have set to a different one other than default.
5	UDP Data Expiration(minutes)	60	
11	0: Celsius / 1: Fahrenheit	0	
12	Site Type	1	Site Type 1 for Utility NERC and UPS critical power Site Type 2 for Telecom sites and cycling applications with SOC and Runtime estimation
13	0:RS485 / 1: Wireless	0	Only for direct connection to monitoring devices via RS485 or wireless serial port.
21	Email SMTP Server	mail.batterydaq.net	
22	Email Server Port	0	Set 0 to disable email
23	Email TLS(N/Y/Plain) (0/1/2)	0	
24	Email From	alarm_notice@batterydaq.net	
25	Email Username	alarm@batterydaq.net	
26	Email Password	-	
27	Email Receipt-1	alarm@batterydaq.net	
28	Email Receipt-2	.	
29	Email Receipt-3	.	
31	Time Zone UTC +/-	0	
32	Date/Time (set DNS for NTP)	10/9/2022 14:24:59	(-1 hour for Daylight Saving)
41	Home Latitude	39.497320	GPS coordinates
42	Home Longitude	-76.660004	
43	Initial Zoom (5-18)	8	Map depth



4. Alarm Settings

Up to 8 types of alarm can be set/adjusted for your application.

Alarm settings are stored in Master-800 flash memory, not in SD card.

Make changes on [Alarm Settings](#) page.

Save alarm settings with Passcode: **7777**.



Master-800 Server

[Concise View](#) | [Full Table](#) | [Re](#)

[Server Settings](#) | [Alarm Settings](#)

BatteryType	NominalVol.	Vol.High	Vol.Low	DischargeLow	IR High	Temperature	ThermalRisk	SOH	SOC	New Value(comma separated)
1	1200	1500	1350	1100	30	45	80	80	20	1200,1500,1350,1100,30,4
2	2000	2350	2150	1850	30	45	80	80	20	2000,2350,2150,1850,30,4
3	2000	2350	2100	1800	50	45	80	80	20	2000,2350,2100,1800,50,4
4	6000	7050	6300	5400	50	45	80	80	20	6000,7050,6300,5400,50,4
5	6000	7050	6300	5400	50	45	80	80	20	6000,7050,6300,5400,50,4
6	12000	14700	12900	10800	50	45	80	80	20	12000,14700,12900,10800
7	12000	15000	12500	10800	50	45	80	80	20	12000,15000,12500,10800
8	16000	19300	17200	14400	50	45	80	80	20	16000,19300,17200,14400

:: Alarm Thresholds are set for Battery Type 1 to 8 to match Bank.xls.
:: Type 1 default 1.2V [1200] NiCad
:: Type 2 default 2V [2000] Wet Cell
:: Type 3 default 2V [2000] VRLA Cell
:: Type 4 default 6V [6000] Battery A
:: Type 5 default 6V [6000] Battery B
:: Type 6 default 12V [12000] Battery A
:: Type 7 default 12V [12000] Battery B
:: Type 8 default 16V [16000] Battery
:: Voltage value in mV for each battery. IR is percentage above average.
:: Temperature in Celcius degree. Thermal Risk default 80.
:: SOH/SOC 10 to 100 (Telecom Models only).

Enter Password:

Only authorized person can make changes.Click "Update" to send a data packet.

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Please update the Excel sheet AlarmType page to keep it consistent as backup or shared file within your organization and battery service contractor.

11101 Gilroy Road, Ste. 1
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United States

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Microsoft Excel interface showing the 'Banks - Exc' workbook. The ribbon includes FILE, HOME, INSERT, PAGE LAYOUT, FORMULAS, DATA, REVIEW, VIEW, DEVELOPER, ACROBAT, and TEAM. The HOME ribbon is active, showing options for Clipboard, Font, Alignment, and Number.

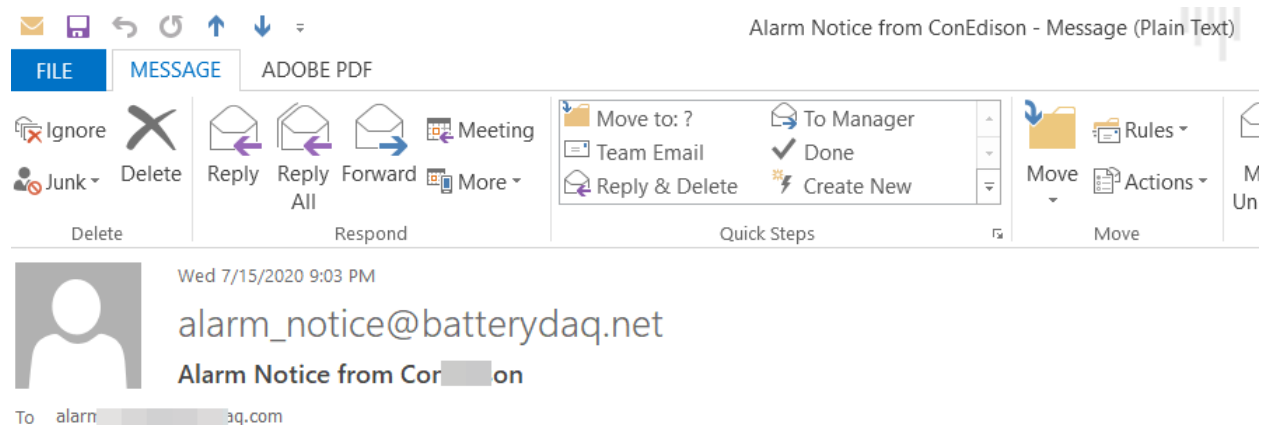
The spreadsheet displays a table with columns A through J. The data is organized as follows:

	A	B	C	D	E	F	G	H	I	J
1	Alarm Type	1	2	3	4	5	6	7	8	
2	Description	1.2V NiCad	2V Wet	2V VRLA	6V	6V	12V	12V	16V	
3	Nominal Voltage	1200	2000	2000	6000	6000	12000	12000	16000	
4	Float Voltage High	1500	2350	2350	7050	7050	14700	15000	19300	
5	Float Voltage Low	1350	2150	2100	6300	6300	12900	12500	17200	
6	Discharge Voltage Low	1100	1850	1800	5400	5400	10800	10800	14400	
7	Internal Resistance above	30	30	50	50	50	50	50	50	
8	Temprature High (Celcius)	45	45	45	45	45	45	45	45	
9	Thermal Risk High	80	80	80	80	80	80	80	80	
10	SOH Low(%)	80	80	80	80	80	80	80	80	
11	SOC Low(%)	20	20	20	20	20	20	20	20	
12	Reserved	0	0	0	0	0	0	0	0	
13										
14										
15										
16	Keep this copy consistent with DTU Alarm Settings									
17										
18										
19										
20										
21	IR Baseline	set to 0 for using average								
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										

The bottom status bar shows 'READY' and the active sheet is 'AlarmType'.



Alarm(s) will be sent by email. Change to your email server and do a test.



Alarm Notice from Site: ConEdison

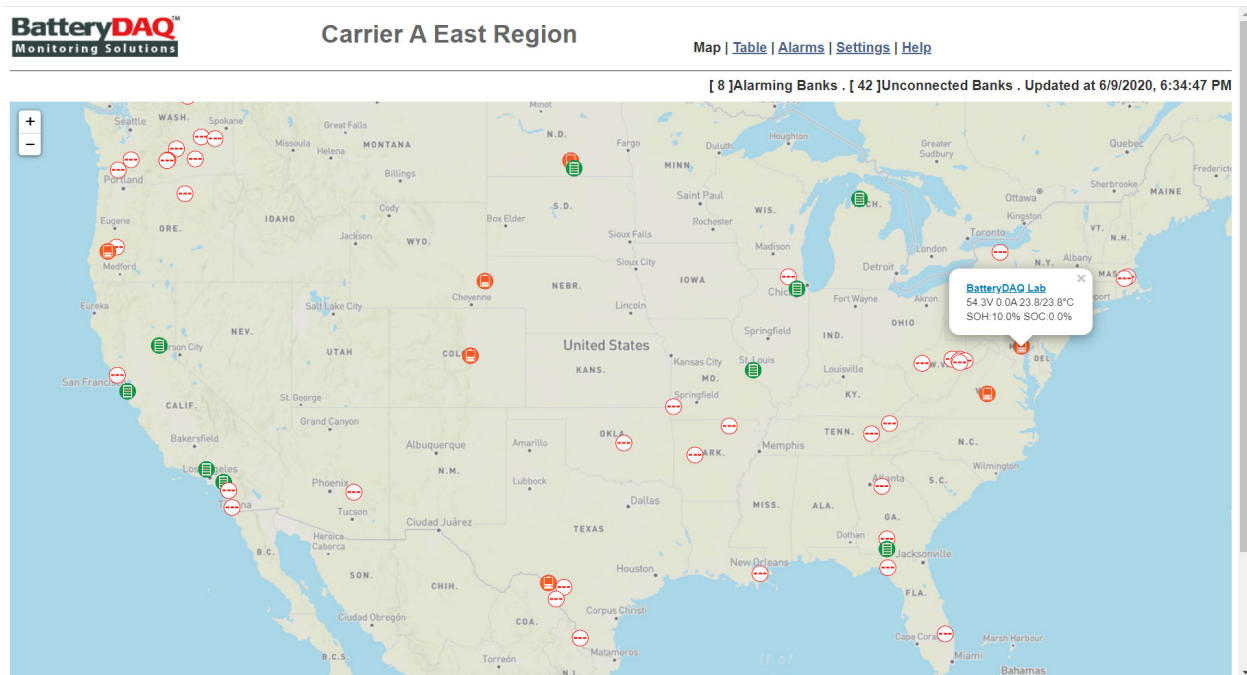
[1]	7/	21:2	http://	#12372 BN-1	SOH / Warning			
53.9V	0.0A	39.5ac	27.5/27.5C	13.486	13.826/13.255V	IR(0.924/1.054	14.0%)	SOH:78.2% SOC:0.0%
[2]	7/	21:2	http://	#12367 ETNA	SOH / IR / Warning			
54.3V	-0.4A	0.0ac	20.3/20.3C	13.592	14.629/11.652V	IR(0.497/1.602	222.3%)	SOH:10.0% SOC:0.0%
[3]	7/	21:2	http://7	#12366 BN-1	SOH / Warning			
53.9V	0.3A	14.6ac	27.5/27.5C	13.496	13.658/13.285V	IR(1.246/1.770	42.0%)	SOH:18.5% SOC:0.0%
[4]	7/	21:2	http://	#12328 FRTL STR 1	SOH / IR / Warning			
53.8V	-0.3A	4.8ac	24.5/24.5C	13.462	13.483/13.434V	IR(0.001/0.002	100.0%)	SOH:10.0% SOC:0.0%
[5]	7/	21:2	http://	#12326 FXCR_2S	SOH / Warning			
54.7V	0.2A	42.1ac	25.3/25.3C	13.682	13.701/13.663V	IR(0.775/0.856	10.4%)	SOH:79.7% SOC:0.0%



5. Map View

All sites will be displayed on an interactive map with alarm status.

Please verify map function in your private network. If the map content is blocked by firewall, you cannot zoom into detail street map. Your IT may check the source code from the web page and unblock it.



Change GPS coordinates for Home and proper map depth to set the default view covering your site range.

41	Home Latitude	39.487320	<input type="text" value="39.487320"/>
42	Home Longitude	-76.660004	<input type="text" value="-76.660004"/>
43	Initial Zoom(5-18)	8	<input type="text" value="8"/>



6. Table View

The default home page displays all battery banks in a concise mode.

Each column can be clicked to sort with value.

If a remote unit is not communicating, it will show its IP address in RED. Otherwise it displays an icon to reflect the status Normal/Service Alarm/Urgent Alarm.

Concise Table View: it only displays important data and status

20	-1	72.167.223.197[65]	12319	KUNZ	4	300	-	-	-	-	-	-	-	-	-	-	
21	<div><div></div><div></div><div></div></div>	0	Normal[0]	12320	BN-1	4	300	53.9	0.1	46.6	6.1	6.1	13.488	13.529	13.453	9.28	9.46
22	<div><div></div><div></div><div></div></div>	0	Normal[0]	12321	BN-1	4	300	54.0	0.0	45.4	1.6	1.6	13.508	13.548	13.487	9.29	9.82
23	<div><div></div><div></div><div></div></div>	0	Normal[0]	12322	BN-1	4	300	54.3	-0.4	45.6	-0.3	-0.3	13.589	13.629	13.550	4.22	4.39
24	<div><div></div><div></div><div></div></div>	1	Service[0]	12324	TPAS_2S	8	300	54.0	0.9	40.8	21.5	21.5	13.511	13.587	13.462	3.57	4.24
25	<div><div></div><div></div><div></div></div>	1	Service[0]	12325	SPCK STR 1	4	300	54.0	-0.2	4.8	9.5	9.5	13.518	13.810	13.024	12.26	27.25
26	<div><div></div><div></div><div></div></div>	1	Service[0]	12326	FXCR_2S	8	300	54.0	0.1	41.1	8.8	8.8	13.519	13.556	13.488	8.77	10.36
27	<div><div></div><div></div><div></div></div>	0	Normal[0]	12327	BDBC STR 1	4	300	54.0	-0.1	44.7	5.2	5.2	13.519	13.581	13.466	4.75	5.06
28	<div><div></div><div></div><div></div></div>	1	Service[0]	12328	FRTL STR 1	4	300	54.0	-0.1	4.8	4.3	4.3	13.505	13.534	13.483	0.02	0.05
29	<div><div></div><div></div><div></div></div>	0	Normal[0]	12329	550S STR 1	4	300	53.9	-0.7	47.0	8.8	8.8	13.481	13.490	13.469	5.00	5.11
30	-1	72.167.223.197[65]	12330	PEAK	4	300	-	-	-	-	-	-	-	-	-	-	-
31	-1	72.167.223.197[65]	12337	BN-1	4	300	-	-	-	-	-	-	-	-	-	-	-
32	<div><div></div><div></div><div></div></div>	0	Normal[0]	12341	BEAR STR 1	4	300	54.0	-1.0	45.8	4.8	4.8	13.510	13.527	13.501	6.96	7.31
33	-1	72.167.223.197[65]	12354	BN-1	4	300	-	-	-	-	-	-	-	-	-	-	-
34	<div><div></div><div></div><div></div></div>	1	Service[0]	12366	BN-1	4	300	54.1	0.6	4.8	-3.1	-3.1	13.532	13.717	13.301	10.46	19.40
35	<div><div></div><div></div><div></div></div>	2	Urgent[0]	12367	ETNA	8	300	54.2	-0.5	20.6	22.2	22.2	13.569	14.319	11.736	5.11	17.05
36	<div><div></div><div></div><div></div></div>	1	Service[0]	12372	BN-1	4	300	54.0	-0.2	4.8	8.1	8.1	13.519	13.831	13.094	15.51	40.04

Full Table View: it displays all registered information on previous Excel sheet, including IP address.
(Which might be crowded on screen.)

52	-1	72.167.223.197[13]	13132	40x12V	72.167.223.197	52	36	1	6	300	-	-	-	-	-	-	-
53	-1	72.167.223.197[13]	13155	40x12V	72.167.223.197	53	36	1	6	300	-	-	-	-	-	-	-
54	-1	72.167.223.197[13]	13267	4X12V	72.167.223.197	54	4	1	6	300	-	-	-	-	-	-	-
55	1	Service[0]	12101	SigmaEE-1	72.167.223.197	109	24	1	2	300	52.8	40.0	0.0	23.6	25.1	2.203	2.2
56	1	Service[0]	12106	SigmaEE-2	72.167.223.197	110	24	1	2	300	52.5	32.6	0.0	24.8	26.2	2.191	2.2
57	-1	72.167.223.197[13]	12102	Topaz-12729	72.167.223.197	118	60	1	2	300	-	-	-	-	-	-	-
58	-1	72.167.223.197[13]	12111	Topaz-12730	72.167.223.197	120	60	1	2	300	-	-	-	-	-	-	-
59	-1	[13]	0			0	0	0	1	0	-	-	-	-	-	-	-
60	-1	[13]	0			0	0	0	1	0	-	-	-	-	-	-	-
61	-1	[13]	0			0	0	0	1	0	-	-	-	-	-	-	-
62	-1	[13]	0			0	0	0	1	0	-	-	-	-	-	-	-

Full table view will display inactive sites as well. If you wish to activate a site, click on the first column on that row to access to that bank.

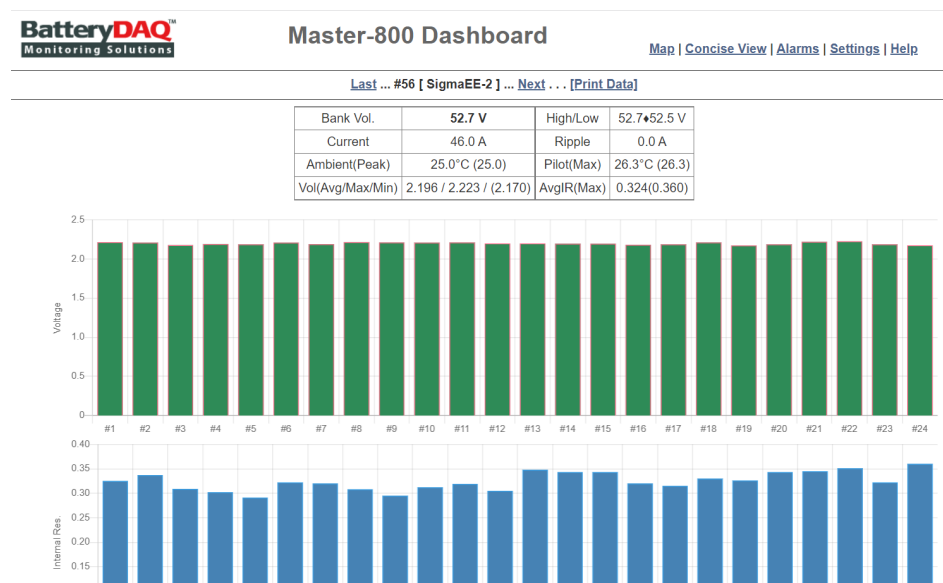
11101 Gilroy Road, Ste. 1
Hunt Valley, Maryland 21031-1330
United States

TEL +1 800-455-8970
FAX +1 484-687-9904
www.batterydaq.com

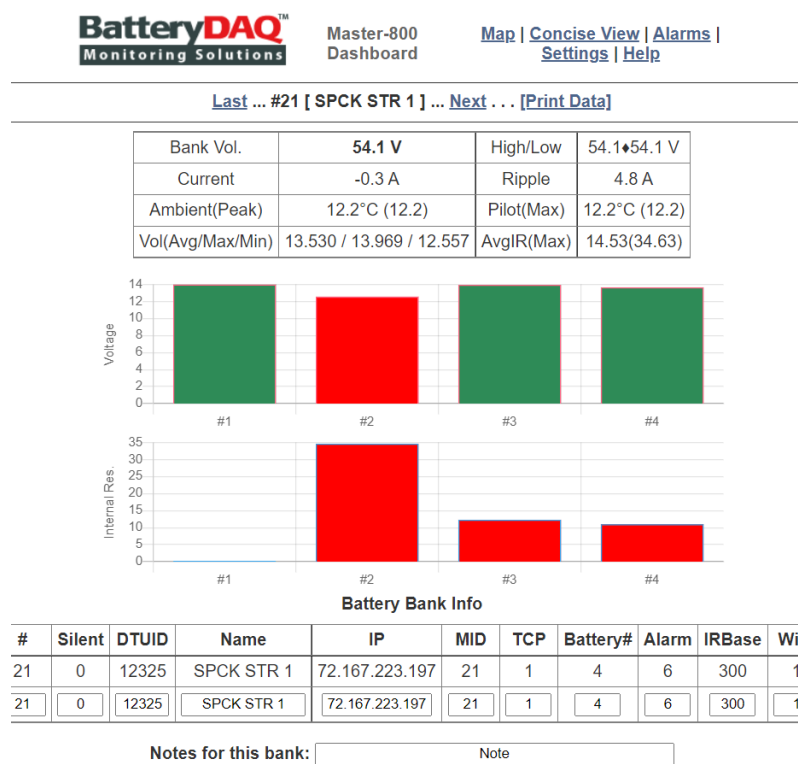


7. Individual Bank View

Individual bank data and settings can be viewed and updated.



Bargraph will change color for alarms.



8. Update and Add New Bank

Bank information can be updated online. You can also copy existing bank to add a new bank.

On table view, click on bar graph icon to access individual bank.

Battery Bank Info														
#	Silent	DTUID	Name	IP	MID	TCP	Battery#	Alarm	IRBase	Wire	Install	BatteryModel	Latitude	Longitude
56	0	12106	SigmaEE-2	72.167.223.197	110	1	24	2	300	2	2012.08	SBS-190F	46.566055	-122.277916
56	0	12106	SigmaEE-2	72.167.223.197	110	1	24	2	300	2	2012.08	SBS-190F	46.566055	-122.277916

Notes for this bank: Note

Enter Passcode:
Only authorized person can make changes. Obtain passcode from vendor.

Instructions

#	Set to different bank number to copy settings to it. Make sure not to overwrite other bank.
Silent	0 (Default) - Normal Notification; 1 - Alarm Notification Disabled; -1 for inactive bank, no data update, not listed on Concise View
TCP	0 - Passive UDP (for 3G/4G LTE IoT); 1 (Default) - Modbus-TCP Ethernet/Fiber; 2 - Serial RS485
Alarm(Type)	Keep consistent with alarm type settings
IR Baseline	Set to 0 (Default) for using average, otherwise set to a value, minimum 30. No decimal, input 999 for 0.999mohm@2V and 9.99@12V
Wire(Mode)	1 - 1-wire mode; 2 - 2-wire mode with inter-cell connection resistance
Install(Date)	Input as a decimal between year and month, for example 2019.08



Master-800 Dashboard

[Map](#) | [Concise View](#) | [Full Table](#) | [Alarms](#) | [Settings](#) | [Help](#) | 

[17] Alarming Banks . [82] Unconnected Banks .

#	Alarm	Status	DTU#	Name	No.	IR.Base	BusV	Amp	Ripple	Room(°C)	Pilot	AvgV	MaxV	MinV
12	1	Service [1]	12315	ASLK STR 1	4	300	54.5	0.7	47.3	8.1	8.1	13.629	13.771	13.484
31	1	Service [0]	12367	ETNA	8	300	54.3	-0.2	46.7	21.1	21.1	13.579	13.845	13.073
19	1	Service [1]	12322	BN-1	4	300	54.2	-0.3	45.8	3.0	3.0	13.562	13.591	13.531
21	2	Urgent [1]	12325	SPCK STR 1	4	300	54.1	-0.3	4.8	12.2	12.2	13.530	13.969	12.557
30	1	Service [0]	12366	BN-1	4	300	54.1	0.6	4.8	0.3	0.3	13.544	13.707	13.348

When you update this bank, make sure do not change the # number (as below example 56).

If you do want to make a copy to a new bank, of overwirte a bank, change the # number to intended.

Battery Bank Info														
#	Silent	DTUID	Name	IP	MID	TCP	Battery#	Alarm	IRBase	Wire	Install	BatteryModel	Latitude	Longitude
56	0	12106	SigmaEE-2	72.167.223.197	110	1	24	2	300	2	2012.08	SBS-190F	46.566055	-122.277916
56	0	12106	SigmaEE-2	72.167.223.197	110	1	24	2	300	2	2012.08	SBS-190F	46.566055	-122.277916

Use passcode "7777" to update (or your own passcode if you have changed).

Go to "Help" page to download a banks.csv file to reflect the latest changes.

11101 Gilroy Road, Ste. 1
Hunt Valley, Maryland 21031-1330
United States

TEL +1 800-455-8970
FAX +1 484-687-9904
www.batterydaq.com

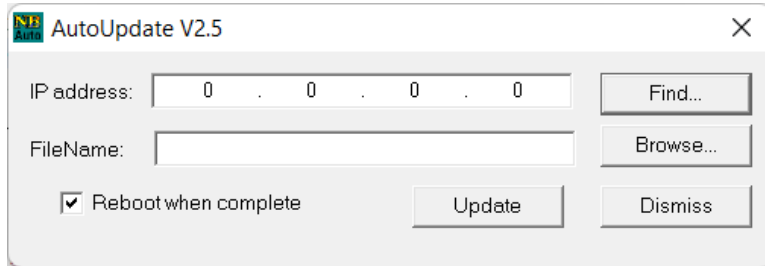


9. Firmware Update Method-1 (AutoUpdate)

Download software tool for firmware updates:

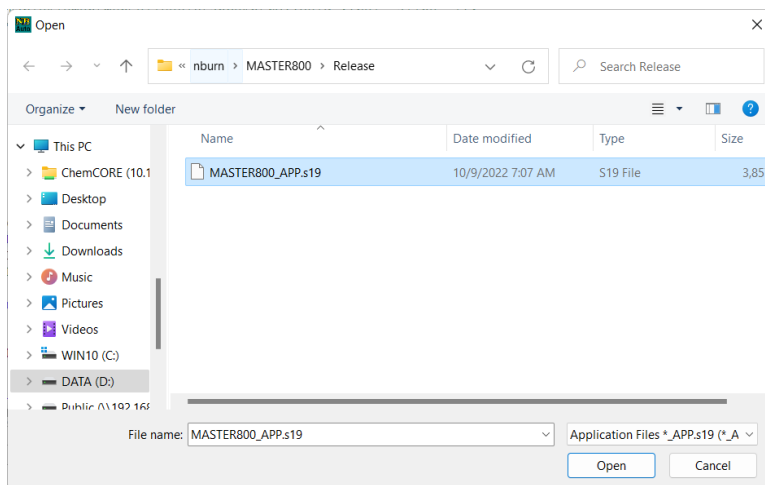
<https://batterydaq.com/tech/AutoUpdate.exe>

Run AutoUpdate.exe

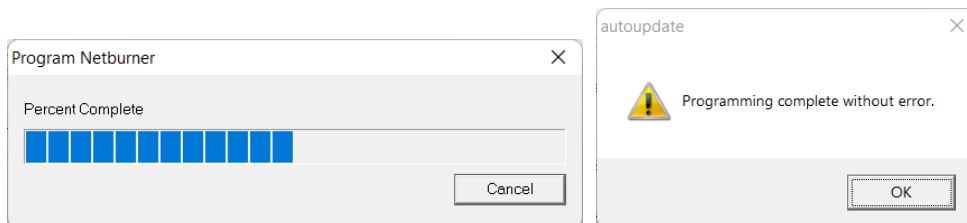


Click "Find", or type in IP address.

Click "Browse" to choose the new s19 file. Open it.



Click "Update".



Wait a minute to complete. Unit will reset to start with new firmware.



10. Firmware Update Method-2 (Web Upload)

Firmware update can be done with web interface. No other tools are needed.

With web browser, access correct IP address, navigate to Settings page, scroll down, click Update Firmware.

[Server Settings](#) | [Alarm Settings](#) | [SNMP Settings](#)

#	Description	Value	New Value
1	Server ID	61000012	<input type="text" value="61000012"/>
2	Server Name	Master-800 Dashboard	<input type="text" value="Master-800 Dashboard"/>
3	Enable Secure Mode(Y/N) (1/0) Enable: Web pages are password protected.	0	<input type="text" value="0"/>
4	Web Password (Case Sensitive)	Username: master or admin	<input type="password" value="...."/>
5	UDP Data Expiration(minutes)	60	<input type="text" value="60"/>
11	0:Celsius/1:Fahrenheit	0	<input type="text" value="0"/>
12	Site Type	1	<input type="text" value="1"/>
13	0:RS485/1:Wireless	1	<input type="text" value="1"/>
21	Email SMTP Server	mail.batterydaq.net	<input type="text" value="mail.batterydaq.net"/>
22	Email Server Port Set 0 to disable email	25	<input type="text" value="25"/>
23	Email TLS(N/Y/Plain) (0/1/2)	1	<input type="text" value="1"/>
24	Email From	alarm_notice@batterydaq.net	<input type="text" value="alarm_notice@batterydaq.net"/>
25	Email Username	alarm@batterydaq.net	<input type="text" value="alarm@batterydaq.net"/>
26	Email Password	-	<input type="password" value="....."/>
27	Email Receipt-1	alarm@batterydaq.net	<input type="text" value="alarm@batterydaq.net"/>
28	Email Receipt-2	.	<input type="text" value="."/>
29	Email Receipt-3	.	<input type="text" value="."/>
31	Time Zone UTC +/-	-5	<input type="text" value="-5"/>
32	Date/Time (set DNS for NTP) (-1 hour for Daylight Saving)	12/7/2022 15:43:29	<input type="text" value="12/7/2022 15:43:29"/>
41	Home Latitude	39.487320	<input type="text" value="39.487320"/>
42	Home Longitude	-76.660004	<input type="text" value="-76.660004"/>
43	Initial Zoom(5-18)	8	<input type="text" value="8"/>

Use IPSetup.exe to config IPv4 address/Mask/Gateway/DNS.

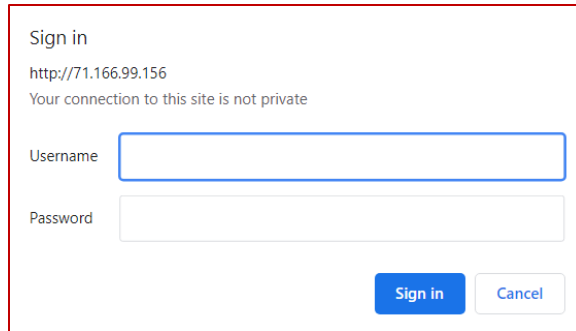
MAC: 00-03-F4-0A-AA-71
IPv4: 192.168.1.222

[Run: -0d-0.0h-] Firmware built on Dec 25 2021

Update Firmware [Password Protected]

[BatteryDAQ LLC, USA](#) Technical Support Email: tech@batterydaq.com Copyright Protected





Sign in

http://71.166.99.156

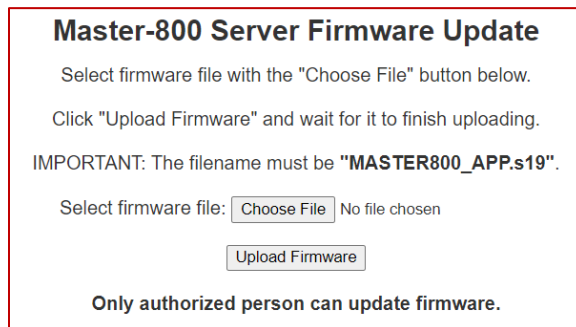
Your connection to this site is not private

Username

Password

[Sign in](#) [Cancel](#)

Username: **admin** Passcode: **7777** (Or use your own password if you have changed it.)



Master-800 Server Firmware Update

Select firmware file with the "Choose File" button below.

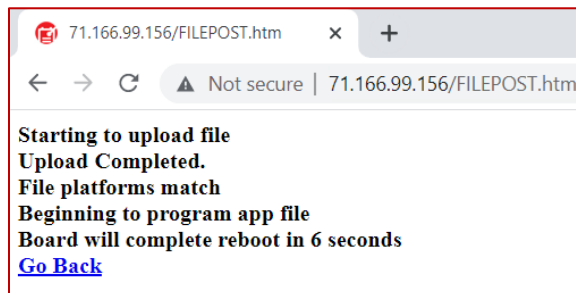
Click "Upload Firmware" and wait for it to finish uploading.

IMPORTANT: The filename must be "**MASTER800_APP.s19**".

Select firmware file: No file chosen

Only authorized person can update firmware.

Choose "MASTER800_APP.s19" file to upload. Wait for 2 minutes to finish.



71.166.99.156/FILEPOST.htm

Not secure | 71.166.99.156/FILEPOST.htm

Starting to upload file

Upload Completed.

File platforms match

Beginning to program app file

Board will complete reboot in 6 seconds

[Go Back](#)

Click "Go Back", then click on Settings page, scroll down to check the firmware version.

In some cases, the device may need a power off/on.



11. SNMP Enable and Disable

SNMP shall be disabled if not using.

Update firmware with a version newer than March-30, 2022.

On SNMP Settings page, set #3 to 0 for disable with passcode **7777**. Check if the change is made correctly.

Power off/on unit to apply the change.

Use any SNMP test program to verify.

Enable it if needed, verify with SNMP test program.

[Server Settings](#) | [Alarm Settings](#) | **SNMP Settings**

SNMP is disabled. If need to enable it, set #3 to 1 and power off/on unit.

#	Description	Value	New Value
1	Location Name	Master-800 Dashboard	<input type="text" value="Master-800 Dashboard"/>
2	Community String	public	<input type="text" value="public"/>
3	SNMP Enable:1/Disable:0 Power off/on if changed	0	<input type="text" value="0"/>
4	Polling Port	161	(Do not change)
5	Version	SNMP V1	(Do not change)
6	Trap Recipient-1 IP	0.0.0.0	<input type="text" value="0.0.0.0"/>
7	Recipient-1 Port	162	<input type="text" value="162"/>
8	Trap Recipient-2 IP	0.0.0.0	<input type="text" value="0.0.0.0"/>
9	Recipient-2 Port	162	<input type="text" value="162"/>
10	Trap Recipient-3 IP	0.0.0.0	<input type="text" value="0.0.0.0"/>
11	Recipient-3 Port	162	<input type="text" value="162"/>
12	Trap Interval (minutes)	10	<input type="text" value="10"/>

Set Recipient IP to 0.0.0.0 to disable trap.

Enter Passcode:

Only authorized person can make changes. Obtain passcode from vendor.

Passcode 3333 to send a test trap



12. Alarm Log file

Alarm log file can grow fast in case some batteries frequently having alarm. The log file can be downloaded for archive. If it is too big, for example >100 MB, it will slow down the booting because it needs to read through to locate the recent 100 alarms.

Log file can be downloaded and cleaned.


To clean the alarm history log, go to settings page, use passcode “75750” to clean history.

Alarm Log file on SD card can be accessed with ftp.

192.168.1.174



On Alarms page, right click “Download Alarm Log” to save the csv file to local computer.

BatteryDAQ™ Master-800 Dashboard [Map](#) | [Table](#) | [Alarms](#) | [Settings](#) | [Help](#) | 

[[Active Alarms](#) | [Ended Alarms](#) | [Download Alarm Log](#)] Updated at 10/9/2022, 8:45:06 AM

< Search:

#	Alarm	DateTime	DTU#	BatteryName	BusV	A	Rip.	T(°C)	AvgV
1	Open	10/9/2022 13:42	12372	BN-1	54.0	-0.1	4.8	8.8/8.8	13.519
2	Open	10/9/2022 13:42	12367	ETNA	54.3	-0.2	46.7	21.1/21.1	13.579
3	Open	10/9/2022 13:42	12366	BN-1	54.1	0.6	4.8	0.3/0.3	13.544
4	Open	10/9/2022 13:42	12341	BEAR STR 1	54.0	-0.9	0.0	12.0/12.0	13.507
5	Open	10/9/2022 13:42	12329	550S STR 1	53.7	-0.7	46.3	13.9/13.9	13.449

