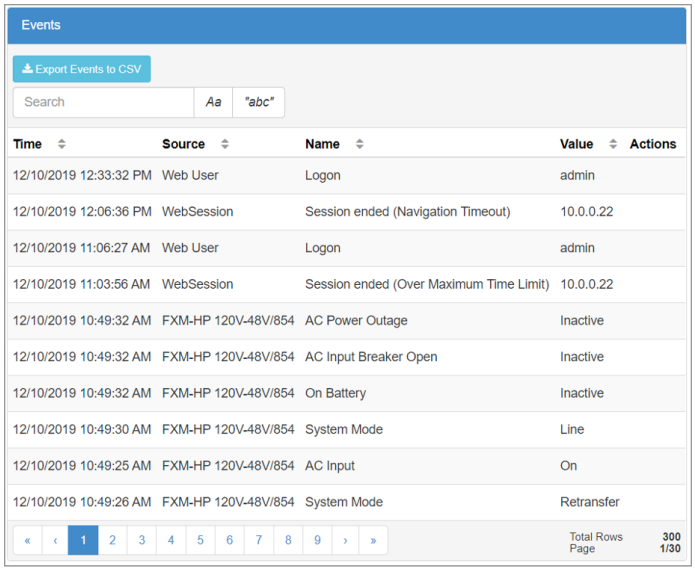
# FXM-HP
# RUGGED UPS MODULE
## DATALOG SETUP

an EnerSys® company

**FXM HP UPS** EDUCATION SERIES

# DATALOG SETUP

The FXM-HP UPS module has many pre-configured logs and allows the user to setup their own Datalogs. Most of the logs are available through LCD or Web browser. The logs hold up to 3000 of the most recent events, 300 of which are viewable by web browser and 25 by LCD. Logs can be exported for further analysis.




The Events log includes; BBS System Mode, AC Power Outage, Configuration Changes, Battery Mode, Dry Contact Relay Status, User Logon, Firmware Updates, Web Sessions and more.

## EVENTS LOG

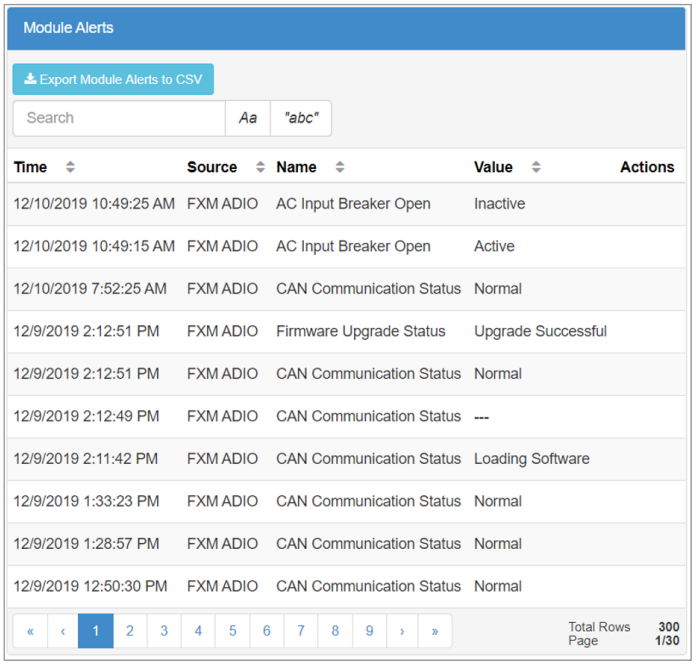
The Event log table keeps a record of changes to the state of the system to help with troubleshooting.

The types of state changes that are logged include:

- Alarm states
- Configuration changes
- Battery Mode changes (for example, discharging)

## MODULE ALERTS LOG

The Modules Alerts log table tracks what is happening on individual modules without interfering with Alarms or the Event log.

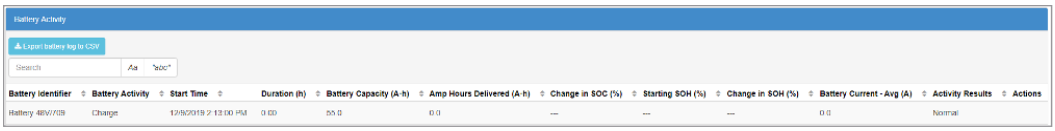



| Time | Source | Name | Value | Actions |
|---|---|---|---|---|
| 12/10/2019 10:49:25 AM | FXM ADIO | AC Input Breaker Open | Inactive | |
| 12/10/2019 10:49:15 AM | FXM ADIO | AC Input Breaker Open | Active | |
| 12/10/2019 7:52:25 AM | FXM ADIO | CAN Communication Status | Normal | |
| 12/9/2019 2:12:51 PM | FXM ADIO | Firmware Upgrade Status | Upgrade Successful | |
| 12/9/2019 2:12:51 PM | FXM ADIO | CAN Communication Status | Normal | |
| 12/9/2019 2:12:49 PM | FXM ADIO | CAN Communication Status | --- | |
| 12/9/2019 2:11:42 PM | FXM ADIO | CAN Communication Status | Loading Software | |
| 12/9/2019 1:33:23 PM | FXM ADIO | CAN Communication Status | Normal | |
| 12/9/2019 1:28:57 PM | FXM ADIO | CAN Communication Status | Normal | |
| 12/9/2019 12:50:30 PM | FXM ADIO | CAN Communication Status | Normal | |

« ‹ 1 2 3 4 5 6 7 8 9 › »  Total Rows 300  Page 1/30

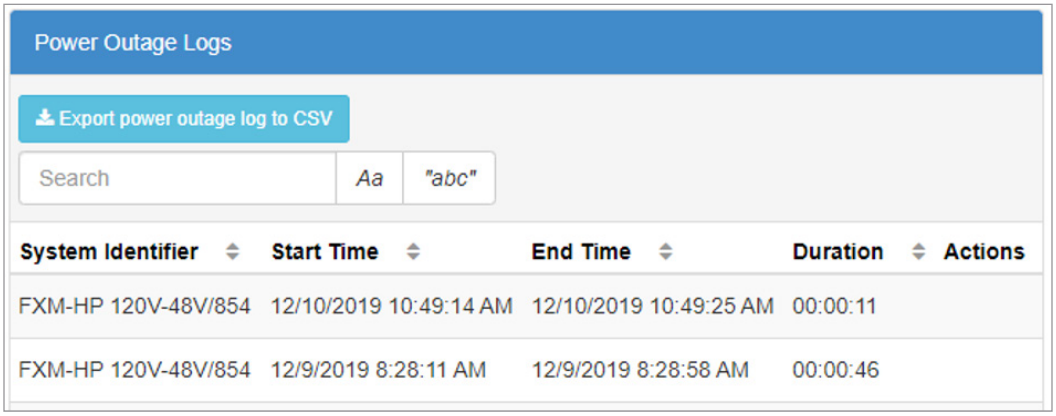
## BATTERY LOG

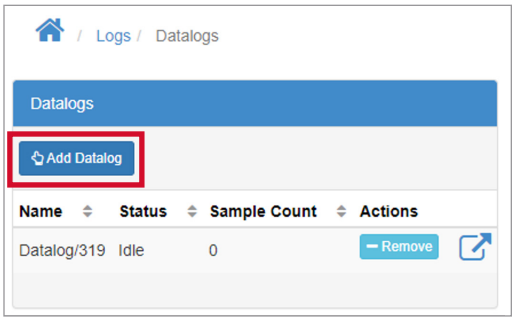
The Battery log shows the parameters of charge and discharge cycles. Because of the large quantity of information that can be collected for battery charges and discharges, a complete dataset can only to obtained by exporting the log.



## POWER OUTAGE LOG

The Power Outage log is the best place to see the history of the outages the site has been protected against. It shows the time/date of an outage and its duration. Power Outage Log will log all outage events, the user defined minimum power outage duration is used to suppress the Power Outage Alarm to filter out noise generated by short interruptions that lasts only few seconds or minutes.



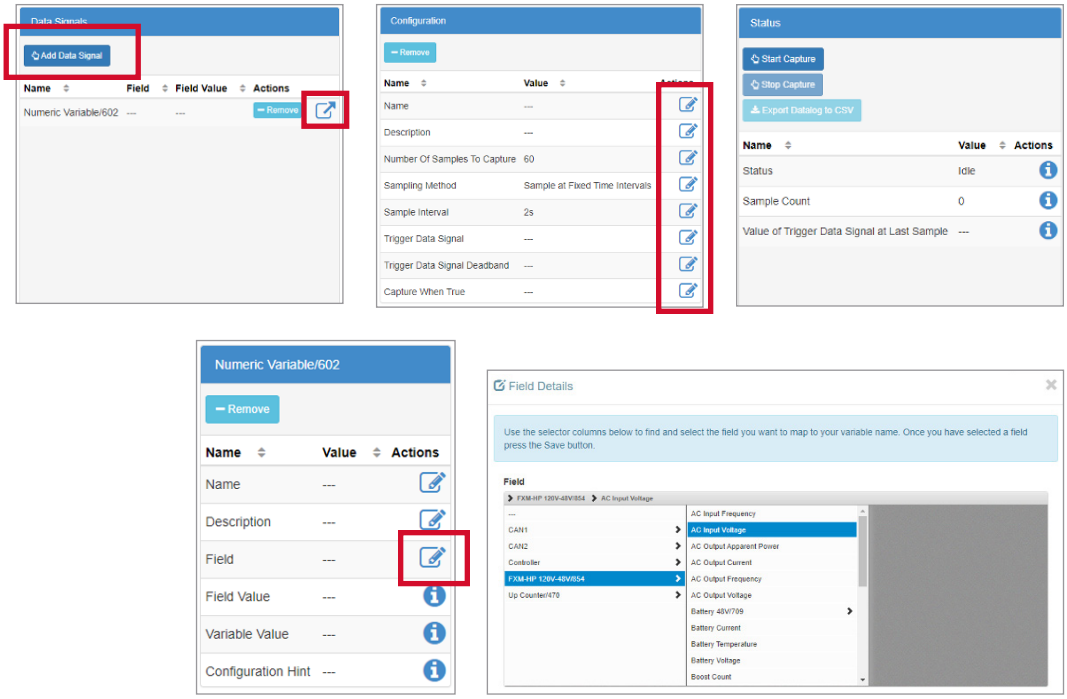



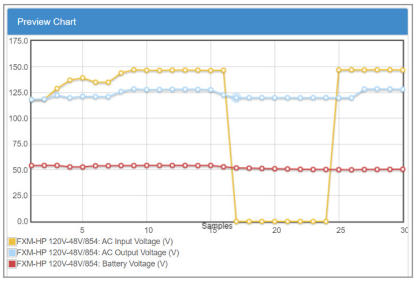

## DATALOGS

Datalogs allow the user to record data signals from the FXM HP UPS at set intervals over a period. Up to 10 datalogs with a maximum of 20 data signals each can be created via webpage only. Each model can capture and store up to 3600 samples.

To add a new datalog click the "Add Datalog" button and then the action button. Click the "Add Data Signal" to identify the sources you wish to monitor. Now use the "Field" action arrow of the Data Signals table to setup the source of the signal.

**Example shows how to select the "AC Input Voltage."**



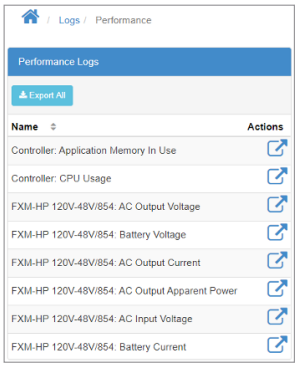




Once you have added all your data sources, click "Start Capture" in the Status table. It will then capture data per your sampling interval and the sample count. A Preview Chart will appear, which will graph the data. Then select "Stop Capture" to end. You can also setup a trigger signal or a logic statement to initiate the capture.

To view all 3600 data samples, the datalog must be exported to a CSV file and viewed with a 3rd party program such as Microsoft Excel.

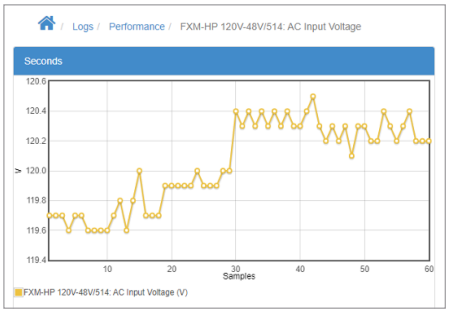
## PERFORMANCE LOGS

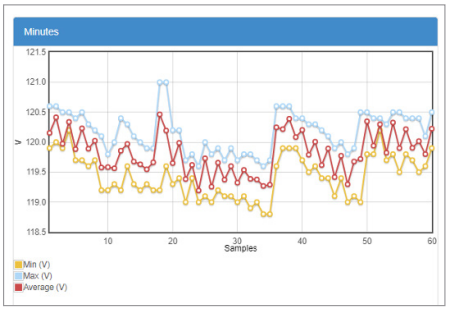
The FXM-HP UPS module comes with preset performance logs which are constantly capturing data. Clicking the actions arrow will take you to that specific log. Logs can be exported all at once or individually. Charts are then shown in seconds, minutes, hours and days. It holds up to one-years' worth of daily roll-ups with a minimum, maximum and average value for key usage statistics.

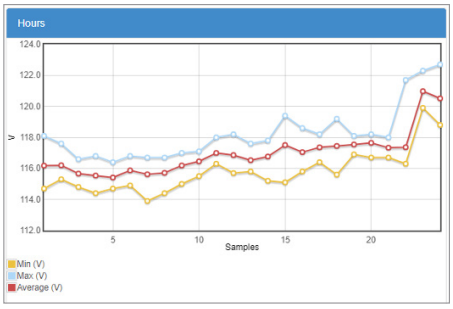


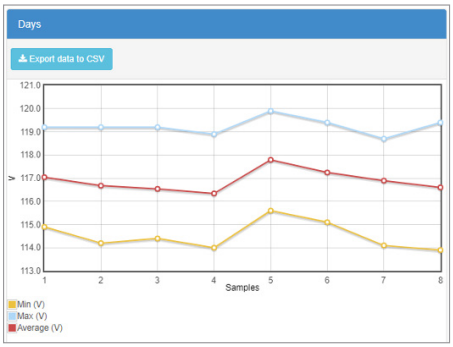

FXM-HP 120V-48V/514: AC Input Voltage" (V)

| Time | Average | Min | Max |
|---|---|---|---|
| 12/3/2019 23:59 | 117.0403 | 114.9 | 119.2 |
| 12/4/2019 23:59 | 116.6754 | 114.2 | 119.2 |
| 12/5/2019 23:59 | 116.5378 | 114.4 | 119.2 |
| 12/6/2019 23:59 | 116.3389 | 114 | 118.9 |
| 12/7/2019 23:59 | 117.7894 | 115.6 | 119.9 |
| 12/8/2019 23:59 | 117.2425 | 115.1 | 119.4 |
| 12/9/2019 23:59 | 116.8918 | 114.1 | 118.7 |
| 12/10/2019 23:59 | 116.6008 | 113.9 | 119.4 |



**For assistance, contact Alpha Technical Support:**

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