



FXM-HP RUGGED UPS MODULE QUICK CONFIGURATION GUIDE



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FXM HP UPS EDUCATION SERIES



QUICK CONFIGURATION GUIDE

Thank you for purchasing the Alpha® FXM-HP UPS module series. We think you will find it to be a very comprehensive and easy to use UPS. The system is designed to operate as soon as it's properly wired and turned on, but if you'd like to dig deeper and do more setup this guide will help you configure the most common items. As always, if you have any questions please refer to the manual or give our technical support line a call. **The default login username and password are "admin".**

MOUSE & KEYBOARD FOR LCD

The USB Type A connector on the FXM-HP UPS can be used to connect peripheral devices such as a wired/wireless mouse and/or keyboard.

LANGUAGE & UNITS

The language can be English or French and the units Metric or Imperial. To change the language and units of the interfaces:

LCD – Shortcuts/Page Down/Language – Then login and select your change.

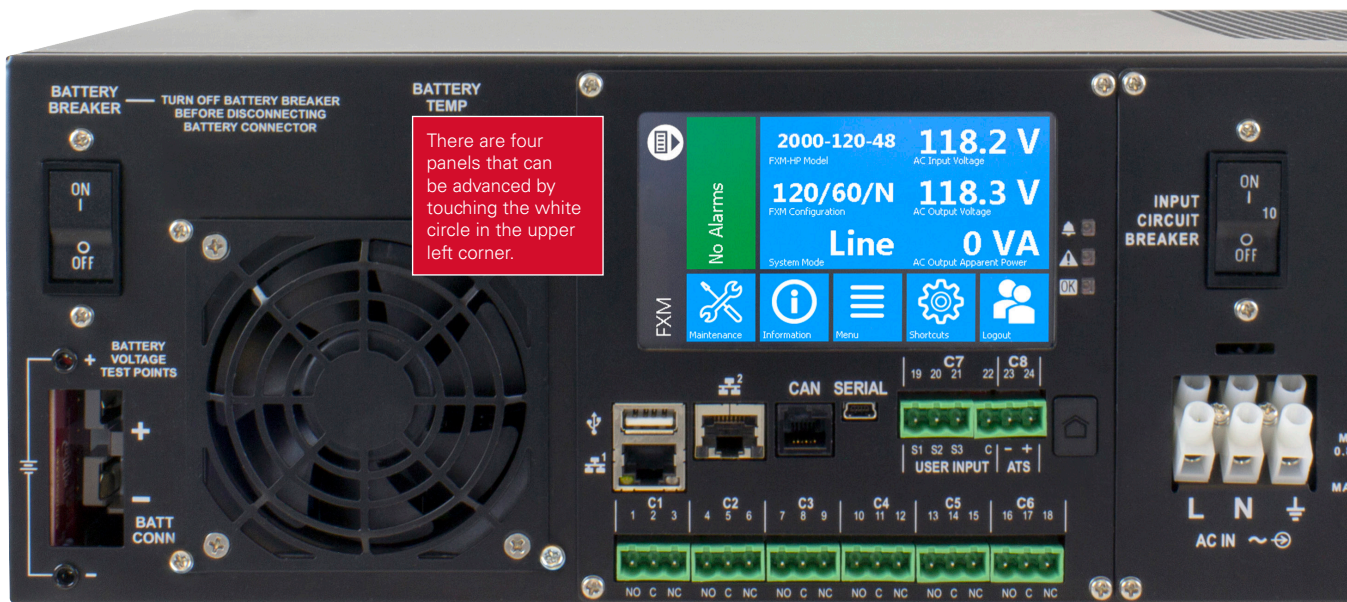
Web – The upper right corner of the web page has a dropdown to make the change. It can be selected to be on the top right corner of Login page as well.

ROTATE DISPLAY FXM HP 1100/2000

If the FXM-HP UPS has been mounted vertically and the display has not been rotated for right-reading, you will need a Phillip's screwdriver to rotate the display. Remove the four screws that hold the display and carefully rotate so that it is right-reading and re-install the screws.

DISPLAY CONFIGURATION – DASHBOARD VALUES

The dashboard area of the display is user configurable as to which configuration or IO values are shown. There are four panels that can be advanced by touching the white circle in the upper left corner. Each of these panels has 6 fields. They are numbered 1-24 and are 1, 2, 3 on the left side and then 4, 5, 6 on the right, starting with the first panel and the numbers increase with each panel. To set the fields via LCD select: Menu/Controller/Configure Controller/User Interface Preferences/FXM HP Dashboard Values. Now select the dashboard value you would like to change. Scroll to FXM-HP UPS and select to get to most of the commonly used UPS fields. Select the field you will like and then the checkmark. To set the fields via web browser: type “dash” in the search bar, then enter, and scroll down for FXM-HP UPS Dashboard Values and select edit on the dashboard value you wish to change. Then navigate to the new value and Save.





BATTERY CONFIGURATION

The FXM-HP UPS comes preconfigured for a 100Ah battery. You can however configure for a specific battery from the profile list which includes our most common batteries. Use your web browser and login to the UPS. Then type “configure batt” in the search bar and then enter. In the Configuration table select “Configure Battery String” and follow the below instructions. This can also be done via the LCD by selecting the “Battery” shortcut and selecting Configure Battery String wizard.

1. **Battery Parameter Source** – Select “Use Parameters based on Battery Model” and then “Next”
2. **Battery Manufacturer** – Select manufacturer
3. **Battery Model** – Select model and then “Next.” If your model is not listed, then set the values manually using the wizard.
4. **Verify Values** that come up and then “Next”
5. **Name the String** – You could rename the string, but it is typically left as is, click “Next”
6. **Map the String** – Leave as is, click “Next” (if mappings get changed on accident, default is below)
 - **Battery Voltage** – Select “FXM ADIO: Battery Voltage”
 - **Battery Current** – Select “FXM ADIO: Battery Current”
 - **Midpoint Voltage** – Ignore
 - **Battery Breaker** – Select “FXM-HP xxxx-xxx: Battery Breaker Open” and then “Next”
7. **Select “Done”**

BATTERY STATE OF HEALTH (SOH)

Battery SOH should be reset to 100% when the batteries are first installed, and Battery Estimation should be enabled.



LCD METHOD

- Menu/System/FXM-HP xxxx-xxx/System Functions/Battery Runtime and Health.
- In the Configuration table enable Battery Estimation.
- In the Status table select "Reset Battery State of Health to 100%."



WEB METHOD

- Type "state of" in the search bar and then enter.
- In the Configuration table enable Battery Estimation.
- In the Status table select "Reset Battery State of Health to 100%."

POWER OUTAGE ALARM DELAY

This feature is useful for locations that have short outages and you do not wish to be notified unless the outage exceeds the configured time delay. By setting this delay the FXM-HP UPS will provide backup power to the load and log an outage. It will not trigger any outage related alarms, dry contact relays, or email to be sent until the outage duration exceeds the Power Outage Alarm Delay value.



LCD METHOD

- Menu/System/FXM-HP xxxx-xxx/xxx/Configure System/System Properties/Power Outage Alarm Delay and select edit.
- Change the delay time to your desired value.



WEB METHOD

- Type “outage” and then enter. Change the delay time to your desired value.

ETHERNET

Ethernet is typically connected through the Ethernet 1 connection which is setup for static IP. The default address is 192.168.0.90. To change the settings:



LCD METHOD

- Shortcuts/Ethernet/Ethernet Front1/Configuration/Change Network Configuration.
- After you login you can change each of the settings.



WEB METHOD

- “Type “front” in the search bar and then enter. Use the “Change Network Configuration” wizard in the Configuration table.

EMAIL

The FXM-HP UPS can be configured to send alarm summary emails. In this case the FXM-HP UPS is acting as a Simple Mail Transfer Protocol (SMTP) client and can work with private and public servers. Alarms that trigger emails are held in queue and are sent out together after the preset interval has elapsed. The default is 10 minutes and the range is 5-60 minutes. After you have setup the email configuration be sure to “Send Test Email” to verify.



LCD METHOD

- Menu/Controller/Configure Controller/Communications/Email/SMTP Configuration
- Enter the setup information and set the SMTP server password.
- Go back one step from this menu and then go to Email Destination to setup a valid from address, recipients list, and send interval.
- This page also has the email test button.



WEB METHOD

- Type “email” in the search bar and then enter.
- In the SMTP Configuration table enter the setup information and set the SMTP password.
- In the Email Destination table set a valid from address, recipients list, and send interval.
- Then send a test email to verify settings.



TIME & DATE

It is a good idea to set the time and verify the date of the UPS so that logging features will log time/date with your local values. You can set these values manually, sync with web browser, or synchronize to network time server. Be sure to also select your daylight savings time method.



LCD METHOD

- Shortcuts/Page Down/Clock
- Then choose the method to set them.



WEB METHOD

- Type “time” in the search bar and then enter.
- Then choose the method to set them.

DRY CONTACT RELAYS

Dry contact relays are programmed with default settings of:

C1	C2	C3	C4	C5	C6 (configurable at factory)
On Battery	Low Batt. + No Line	Low Batt. + No Line	Timer 1	Alarms	48 or 24VDC based on battery bus

The default settings can be changed, and the methods to do so are covered in detail in the “FXM HP Dry Contact Relays” application note.

CLONE CONFIGURATION

To make configuration easier and faster the FXM-HP UPS can clone its controller configuration file to upload to other units via the USB Type A connector or web browser.



LCD METHOD

- Insert a USB drive into the USB Type A connector.
- Then Menu/Controller/Advanced Functions/Configuration File/Configuration File/Export Controller Clone and then Export.
- Remove the USB drive and insert into unit you wish to clone to.
- Then shortcuts/Browse USB/Select .xml File, and then Import.



WEB METHOD

- Type “clone” in the search bar and then enter.
- Select “Export Controller Clone” and it will save an XML file to your downloads directory. Locate the file and rename for convenience.
- Then on the unit you wish to clone to, select “Import” and browse to the file and upload.

UPGRADING CONTROLLER SOFTWARE

NOTE: Check www.alpha.ca for the latest software update and download.

LCD METHOD

- Copy the new controller software file (.azp) to the USB drive and insert into the USB Type A connector.
- Then shortcuts/Browse USB/Select .azp file/Execute.



WEB METHOD

- Type “new controller” and then enter.
- Select “Upload New Controller Software and Reboot” and select the .azp file, then “Upload.”
- Software will install and the controller will reboot.

UPGRADING CONTROLLER OPERATING SYSTEM

NOTE: Check www.alpha.ca for the latest software update and download.



LCD METHOD

- Insert USB drive into the USB Type A connector.
- Then Shortcuts/Browse USB/Select CORDEXHPOS.Vxxx.zip file/ Execute.
- Software will install and the controller will reboot.



WEB METHOD

- Type “new controller” and then enter.
- Select “Upload Controller OS Software and Reboot” and select the CORDEXHPOS.Vxxx.zip file, then “Upload.”
- Software will install and the controller will reboot.

UPGRADING FXM-HP UPS FIRMWARE

NOTE: Check www.alpha.ca for the latest software update and download.



LCD METHOD

- Insert USB drive into the USB Type A connector.
- Then shortcuts/Browse USB/Select .acan file/Execute.



WEB METHOD

- Type “firmware” in the search bar and then enter.
- In the Firmware Files section select “Upload Firmware File” and locate the file and upload.
- In the Firmware Upgrade table select edit in File.
- Use the dropdown list and find the firmware file, select, and Save.
- Then select “Start Firmware Upgrade.”



ALARMS

There are alarms for the controller as well as for the FXM. They come pre-configured, but you may wish to change the default settings. Navigate to Alarms/All Alarm Settings or via LCD Menu/Alarms/All Alarm Settings.

Home / Alarms / All Alarm Settings

All Alarm Settings

Export to CSV

Search Aa "abc"

Name	Status	Limit	Priority	Relay	Actions
FXM-HP 120V-48V/854: Battery Breaker Open	Inactive		Warning	---	Test Alarm
FXM-HP 120V-48V/854: AC Input Breaker Open	Inactive		Warning	---	Test Alarm
FXM-HP 120V-48V/854: AC Output Overloaded	Inactive		Critical	---	Test Alarm
FXM-HP 120V-48V/854: AC Output Short Circuit	Inactive		Critical	---	Test Alarm
FXM-HP 120V-48V/854: AC Power Outage	Inactive		Minor	---	Test Alarm
FXM-HP 120V-48V/854: Battery Temperature Probe Unplugged	Inactive		Minor	---	Test Alarm
FXM-HP 120V-48V/854: Internal Temperature	Inactive		Major	---	Test Alarm
FXM-HP 120V-48V/854: AC Output Voltage High	Inactive		Major	---	Test Alarm
FXM-HP 120V-48V/854: AC Output Voltage Low	Inactive		Major	---	Test Alarm
FXM-HP 120V-48V/854: Battery Over Voltage	Inactive		Major	---	Test Alarm

« < 1 2 3 4 5 6 7 > » Total Rows 64 Page 4/7

Type search string

Click to change sort

Click to edit alarm settings
See next page

Select pages

EDIT THE ALARM

Home / Alarms / All Alarm Settings / FXM-HP 120V-48V/854: AC Input Breaker Open

FXM-HP 120V-48V/854: AC Input Breaker Open

Test Alarm

Name	Value	Actions
AC Input Breaker Open	Inactive	
AC Input Breaker Open Time of Activation	---	
AC Input Breaker Open Time of Acknowledgement	---	
AC Input Breaker Open Alarm Processing	Enabled	
AC Input Breaker Open Priority	Warning	
AC Input Breaker Open Parameter 1	---	
AC Input Breaker Open Custom Name (Parameter 2)	---	
AC Input Breaker Open Relay	---	
AC Input Breaker Open Test Status	Test Allowed	

You can enable/Disable the alarm

Adjust priority level of the alarm – Warning, Minor, Major, and Critical

You can add a relay to be triggered by the alarm

POWER FLOW (WEB BROWSER ONLY)

Power Flow is a great way to “see” all the power moving through the system in a visual format. You can also see alarms and dry contact relay configuration and status. Look for the “Power Flow” menu and select the FXM-HP UPS. There is also a “Show Summary” button on the left that summarizes the values.



FXM-HP UPS NAVIGATION GUIDE		
	WEB PAGE	LCD TOUCHSCREEN
Dashboard Value Fields	Search "dash"; then enter, then scroll to "FXM-HP Dashboard Values"	Menu/Controller/Configure Controller/User Interface Preferences/FXM HP Dashboard Values
Battery Configuration	Search "configure batt"; then enter, select Configure Battery String Wizard	Shortcuts on Dashboard/Battery/Configure Battery String
Battery State of Health & Estimation	Search "state of"; then enter, Status/Reset Battery State of Health to 100%	Menu/System/FXM-HP/System Functions/Battery Runtime and Health/Status & Configuration
Power Outage Alarm Delay	Search "outage"; then enter, System Properties	Menu/System/FXM-HP/Configure System/System Properties
Ethernet	Search "front"; then enter, Configuration, use wizard	Shortcuts/Ethernet/Ethernet Front(1)/Configuration/Change Network Configuration
Email	Search "email"; then enter	Menu/Controller/Configure Controller/Communications/Email/SMTP Configuration/Set items manually or use wizard
Time & Date	Search "time"; then enter, choose method	Shortcuts/Page Down/Clock - Then choose the method to set
Clone Configuration - Export	Search "clone"; then enter, "Export Controller Clone"	Menu/Controller/Advanced Functions/Configuration File/Configuration File/Export Controller Clone and then Export
Clone Configuration - Import	Search "clone"; then enter, "Import"	Shortcuts/Browse USB/Select .xml File/Execute
Software Update - Controller	Search "new controller"; then enter, "Upload New Controller Software and Reboot"	Shortcuts/Browse USB/Select .azp file/Execute
Software Update - OS	Search "new controller"; then enter, "Upload Controller OS Software and Reboot"	Shortcuts/Browse USB/Select CORDEXH.OS.Vxxx.zip file/Execute
Firmware Update	Search "firmware"; then enter, Firmware Files, "Upload Firmware File", Select File, "Start Firmware Upgrade"	Shortcuts/Browse USB/Select .acan file/Execute
Alarms	Alarms/All Alarm Settings	Menu/Alarms/All Alarm Settings/Scroll to desired alarm
Power Flow	Power Flow/FXM-HP	NA - Web Page Only



Low Battery Threshold	Search "battery thresh", then enter, System Properties	Menu/System/FXM-HP/Configure System/System Properties
Relay Status	System/FXM-HP/Status and scroll	Dashboard fourth panel
Relay Timer Duration	System/FXM-HP/System Functions/Load Shedding Relays/Select Timer/Timer	Shortcuts on Dashboard/Timers/Select Timer/Configuration
Relay Trigger - Clear Alarm	System/FXM-HP/Configure System/Alarms/Relay	Shortcuts on Dashboard/Relays/Configuration/Relay
Relay Trigger - Add new	Alarms/All Alarm Settings/Select Alarm/Relay	Menu/Alarms/All Alarm Settings/Select Alarm/Relay/FXM-HP/FXM ADIO/Choose Relay
Relay Name	System/FXM-HP/Status/Relays/Select Relay/Name	Menu/System/FXM-HP/Status/Relays/Select Relay/Relay Output/Name/Name

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