

Accessing the AcuRev 2020-WEB at Admin level

This document will provide a brief overview of accessing the AcuRev 2020-WEB at Admin level. In this level users will be able to read and view meter information as well as configure and control settings on the meter.

To view the web interface of the AcuRev 2020-WEB, an Ethernet connection is needed.

- Open an internet browser and type in the IP address of the meter in the browser search bar and hit the Enter key. The meter's web login page will display as followed:

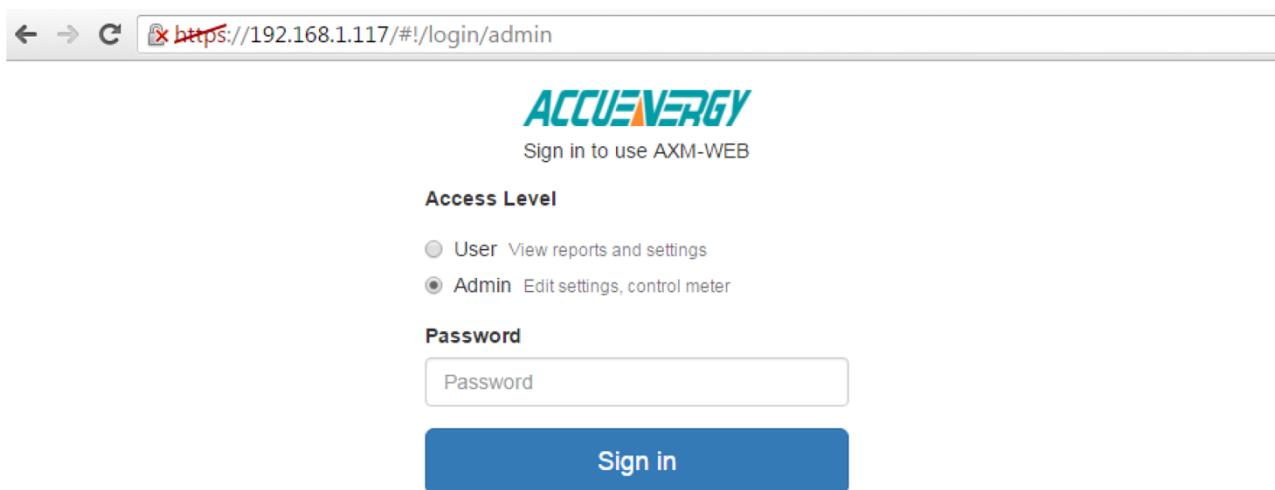


Figure 1

- Login to the web page as 'Admin'. The default password is '*admin*'. Upon successfully logging in you will be redirected to the Dashboard where a brief report of data from the meter will display.

Metering Real-Time

System Parameter	A	B	C	Total	Average
Line-to-Neutral Voltage V	0.000	0.000	0.000	—	0.000
Line-to-Line Voltage V	0.000	0.000	0.000	—	0.000
Line Current A	0.000	0.000	0.000	—	0.000
Active Power kW	0.000	0.000	0.000	0.000	—
Reactive Power kvar	0.000	0.000	0.000	0.000	—
Apparent Power kVA	0.000	0.000	0.000	0.000	—
Power Factor	1.000	1.000	1.000	1.000	—
Load Nature	R	R	R	R	—
Frequency Hz	—	—	—	0.000	—

Select a Channel

Figure 2

To view more data click on 'Metering'. This will display a list of parameters that can be viewed from the AcuRev 2020-WEB. Click on the sub-section that corresponds to the data you would like to view:

Real-Time: This page will show the real-time readings such as voltage, current , power and etc.

Demand: This page will show the demand readings.

Energy: This page will show the energy readings such as the import energy, export energy, total energy as well as the demand readings.

THD: This page will show the power quality data such as the THD, THFF, crest factor and etc. for both voltage and current.

Harmonics: This page will show the harmonics of the voltage and current waveform. It will display the harmonics of each phase in graphical and tabular format. Select between voltage and current to view their respective harmonics as well as between the 2nd-31st harmonics.

I/O: This page will show the values for the Digital Input Pulse Count.

Metering	Real-Time	Total	Real-Time Demand Energy Harmonics I/O	Average
System Parameter	A	B	C	
Line-to-Neutral Voltage V	0.000	0.000	0.000	—
Line-to-Line Voltage V	0.000	0.000	0.000	—
Line Current A	0.000	0.000	0.000	—
Active Power kW	0.000	0.000	0.000	0.000
Reactive Power kvar	0.000	0.000	0.000	—
Apparent Power kVA	0.000	0.000	0.000	—
Power Factor	1.000	1.000	1.000	1.000
Load Nature	R	R	R	—
Frequency Hz	—	—	—	0.000

Select a Channel

Select a Channel

 ▾

Figure 3

To view meter information/status click on the 'Status' tab and select the information you would like to view:

Device Information: This page will display meter information such as the model, serial number, firmware version and device address of the meter. It will also provide the serial number, firmware version, hardware version and MAC address of the AXM-WEB module.

Alarm Status: This page will display the alarm log of the meter. It will provide the status of the alarm events that have occurred thus far indicating the parameter, value and timestamp of the alarm event.

SOE: This page shows the Sequence of Event log for the enabled I/O module with timestamps.

System Event: This page will show the system event log for the meter in chronological order of the events that have occurred.

Status System Event

Timestamp	Event	Device Information	Alarm Status	SOE	System Event
2018-01-12 13:29:40	Modify Clock				
2018-01-12 13:18:55	Reset				
2018-01-12 11:57:17	Modify Clock				
2018-01-12 11:47:17	Modify Clock				
2018-01-12 11:37:16	Modify Clock				
2018-01-12 11:27:16	Modify Clock				
2018-01-12 11:17:16	Modify Clock				
2018-01-12 11:07:16	Modify Clock				
2018-01-12 10:49:01	Modify Clock				
2018-01-12 10:39:01	Modify Clock				
2018-01-12 10:29:01	Modify Clock				
2018-01-12 10:19:01	Modify Clock				
2018-01-12 10:09:01	Modify Clock				
2018-01-12 09:59:01	Modify Clock				

Figure 4

Basic meter settings can be configured through the web interface such as configuring the CT ratio for each channel by clicking on the 'Settings' tab and selecting 'Meter'.

Note: Click 'Save' after changing any settings. The AcuRev 2020-WEB will also need to be rebooted from the 'Management' page if you select the Reboot Later option after clicking Save.

Metering	Real-Time	Metering ▾	Status ▾	Settings ▾	Logout
System Parameter	A	B	C	Total	
Line-to-Neutral Voltage V	0.000	0.000	0.000	—	0.000
Line-to-Line Voltage V	0.000	0.000	0.000	—	0.000
Line Current A	0.000	0.000	0.000	—	0.000
Active Power kW	0.000	0.000	0.000	0.000	—
Reactive Power kvar	0.000	0.000	0.000	0.000	—
Apparent Power kVA	0.000	0.000	0.000	0.000	—
Power Factor	1.000	1.000	1.000	1.000	—
Load Nature	R	R	R	R	—
Frequency Hz	—	—	—	0.000	—
Select a Channel					

Figure 5

Wiring**Wiring of Three Phase User**

- 1LN (One Element/1-Phase-2-Wire)
- 3LN (Three Elements/3-Phase-4-Wire/3-Phase-3-Wire)
- 2LN (Two Elements/1-Phase-3-Wire)

CT Model**Channel 101**

20	A
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Channel 102

20	A
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Channel 103

20	A
----	---

Channel 104

20	A
----	---

Channel 105

20	A
----	---

Channel 106

20	A
----	---

Channel 107

20	A
----	---

Figure 6

Wiring of Three Phase User: Select the wiring mode of the overall system that the AcuRev 2020 will monitor.

CT Model Channel 101-118: Enter the rated input of the current transformer that is connected to each channel of the AcuRev 2020 current input. Enter a value from 1 to 50000A.

Click 'Save' after changing any settings. The AcuRev 2020-WEB will also need to be rebooted from the 'Management' page if you select the Reboot Later option after clicking Save.

To configure settings related to the network select the 'Communication' option from the 'Settings' tab. The page you will be directed to is for configuring the meter's network settings. Other functions can be configured by clicking on the corresponding tab such as emails, Time/Date HTTP/FTP Post and AcuCloud Post. These functions will be discussed in more details in separate documents.

Network Settings:

The AcuRev 2020-WEB will have network settings corresponding to if it will be used with WiFi or if it will be hardwired into a router/switch. You can change the configurations of your network parameters.

DHCP: Select 'Manual' to manually configure the IP address to access the meter. If set to 'Manual', you'll also need to set the Subnet Mask and Gateway.

Select 'Auto' to have the meter assigned a IP address automatically. With this selection the Subnet Mask, Gateway and DNS servers will also be automatically assigned.

Note: After changing DHCP to Auto, check the display of the meter to obtain the new IP address that was assigned.

IP Address: If the DHCP is configured to Manual, the IP address can be configured from this page.

Subnet Mask: If the DHCP is configured to Manual, the Subnet Mask can be configured from this page.

Gateway: If the DHCP is configured to Manual, the Gateway can be configured from this web page.

DHCP DNS Server 1: Enter the address of the DNS 1 server in this page.

DHCP DNS Server 2: Enter the address of the DNS 2 server in this page.

HTTPS Port: Enter the HTTPS port number of the meter. By default, this setting is configured to 443. The range can be from 6000 to 9999.

Modbus TCP Port: Enter the Modbus port number of the meter. By default, this setting is configured to 502. The range can be from 2000 to 5999.

The screenshot shows the 'Network' tab selected in a navigation bar. Below it, there are several configuration sections:

- DHCP:** A radio button group where 'Manual' is selected, and 'Auto' is an option.
- IP Address:** An input field containing '192.168.1.144'. A note below says 'Default: 192.168.1.254'.
- Subnet Mask:** An input field containing '255.255.255.0'. A note below says 'Default: 255.255.255.0'.
- Gateway:** An input field containing '192.168.1.1'. A note below says 'Default: 192.168.1.1'.
- DHCP DNS Server 1:** An input field containing '8.8.8.8'. A note below says 'Default: 8.8.8.8'.
- DHCP DNS Server 2:** An input field containing '8.8.4.4'. A note below says 'Default: 8.8.4.4'.
- HTTPS Port:** An input field containing '443'. A note below says 'Default: 443, Range 6000-9999'.
- Modbus TCP Port:** An input field containing '502'.

Figure 7

Click 'Save' after changing any settings. The AcuRev 2020-WEB will also need to be rebooted from the 'Management' page if you select the Reboot Later option after clicking Save.

Management:

This page can be used to reset parameters such as the Demand, Energy, alarm records and etc as well as setting or changing the password for the access levels. This page is also where the AcuRev 2020-WEB can be rebooted so that all changes can take effect.

The screenshot shows the 'Management' section of the Accuenergy interface. At the top, there are navigation links: Metering, Status, Settings, and Logout. Below this, a sub-menu titled 'Settings Management' is visible. The main content area contains a table with two columns: 'Setting' and 'Action'. The settings listed are: Reset Demand, Reset Energy, Reset Alarm Record, Reboot Communications Module, Device Clock (with a timestamp: Fri, 12 Jan 2018 13:43:56 -0500), Reset Device Run Time, Live API Token (with a GUID: f536f59b-6c0e-4a70-92a8-2f984d4e8fc0), Reset API Token, Reset Admin Password (with a 'Save' button and a 'Show password' checkbox), and Reset View Password (with a 'Save' button and a 'Show password' checkbox). At the bottom of the form is a blue 'Download Logfile' button.

Figure 8**Firmware:**

This page is used for updating the firmware version on the AcuRev 2020-WEB module. If you would like to update the firmware, please contact Technical Support with the current firmware version of the AcuRev 2020-WEB module.

The screenshot shows the 'Firmware' section of the Accuenergy interface. At the top, there are navigation links: Dashboard, Metering, Status, Settings, and Logout. Below this, a sub-menu titled 'Settings Firmware' is visible. The main content area has a 'Select firmware file' label followed by a 'Choose File' button with the text 'No file chosen'. Below the button is a blue 'Upload' button.

Figure 9