

# **Connecting to the AXM-WIFI module**

The following guide will provide an overview on connecting to the AXM-WIFI module that is attached to the back of the Acuvim II series meter that has a firmware version of at least 3.63.

The Acuvim II series meter must first be configured to work with the AXM-WIFI module. After installing AXM-WIFI module directly to the back of the meter, energize the meter.

Make sure you are in the 'Setting' mode. To get to this screen, press the 'H' and 'V/A' buttons simultaneously; the display selection mode will be activated and the screen should become blank. With the cursor flashing, press either the 'P' or 'E' buttons to move the cursor to 'Setting'. Press 'V/A' to enter the 'Setting' mode.

• You will be required to type in a password in the 'PASSWORD' screen. Leave the password as default '0000' and press 'V/A' to enter the parameter selection Mode.



Figure 1- Parameter Selection Mode

 The cursor will be on 'SYS'. Press 'V/A' on this screen to get to the system settings. This will show screen 'S01 ADDR'.



Figure 2-Device address setting

- Press the 'E' button until you get to 'S34 PROTOCOL 2'. Select the 'WIFI' protocol.
  - Press 'V/A' to modify the setting; the cursor should now flash.
  - Press 'P' or 'E' to select 'WIFI'.
  - Press 'V/A' to confirm the change.



The AXM-WIFI will appear in the WIFI network as **AXM-WIFI-(serial number of module)** as the SSID or name of the wireless network.

• By default the network key or password will be "accuenergy".

By default the AXM-WIFI will be in Access Point mode with default IP address of *192.168.100.1*. Ensure the device connecting to the AXM-WIFI has DHCP enabled or it should be in the same subnet mask as the AXM-WIFI.

- Open a internet browser and type in the IP address of the WIFI module: 192.168.100.1
- Log in at Admin access level, using the default password of 'admin'.



#### Access Level

- User View reports and settings
- Admin Edit settings, control meter

#### Password

•••••		
	Cian in	
	Sign in	

## Figure 3

• Click on the 'Settings' tab and select 'Communications' to view WIFI settings.

ACCUENERGY			Dashboard	Metering •	Status +	Settings -	Logout
Dashboard					Meter	unications	
Basic Metering			Power & Energy		Manag	ement ire	
Average Voltage	116.780	V	Total Power Factor			0.626	PF
Average Line Voltage	0.000	v	Total Apparent Pow	er		0.056	K\A
Average Current	0.151	А	Total Active Power			0.035	kW
Frequency	60.010	Hz	Import Active Energ	y .		1,566.6	kWh
Full report			Full report				
THD			Max Demand				
THD Voltage Average	2.050	%	Maximum Apparent	Power Deman	1	0.061	KVA.
THD Current Average	102.750	%	Maximum Active Po	wer Demand		0.038	KW
Full report			Full report				

Module up since Mon Jan 02 2017 09:49:13 GMT-0500 (Eastern Standard Time)

Figure 4

## Make Energy Usage Smarter



The configurations related to the AXM-WIFI can be found from the 'WIFI' tab in the Communications page.

An overview of each setting is provided below:

**Mode:** The AXM-WIFI can be configured to work in two modes just like any other WIFI device. It can be configured as either Access Point(AP) or Station mode.

← → C A Not secure   bttps://192.168.100.1/#!/settings/communications						
ACCUENERGY	Dashboard	Metering <del>-</del>	Status <del>-</del>	Settings <del>-</del>	Logout	
Settings Communications					Save	
Wi-Fi Network Email SNTP HTTP/FTP Post AcuCloud Post						
Wifi Enable						
O Disable						
Enable						
Mode						
Access Point					•	
SSID						
AXM-WIFI-AM11119999						
Network Key						
IP						
192.168.100.1						
Save						

#### Figure 5-AP Mode

- 1. Access Point: Default configuration for AXM-WIFI. The AXM-WIFI will act as a wireless access point and will allow a wireless device to access the AXM-WIFI.
  - In Access Point mode, users can configure the SSID, Network Key and IP of the AXM-WIFI module as well as the DNS servers.

**Note:** When the IP address or SSID is changed in AP mode then users will be prompted to enter the network key or password of the AXM-WIFI SSID when clicking the Save button. After entering the network key, click save once more.

- 2. *Station:* AXM-WIFI will behave like a wireless client and bridge to another wireless network that is available.
  - In Station mode, users can select the Wireless network to connect to in Connect to SSID. Click on "Select from Available Networks" and enter the Network Key for the wireless network that the AXM-WIFI will bridge to.

In station Mode the DHCP can configured as either manual or auto.

• If manual, users can configure the IP, Subnet Mask and Gateway and DNS Servers.



 If auto, users can check the meter's display to get the IP address and all other network configurations assigned by the wireless network. The user can also configure the DNS servers in DHCP is on Auto.

**Note:** There will be two IP addresses in the NET settings of the Acuvim II series meter. The IP address for the AXM-WIFI will be in parameter **N11 of the NET settings.** The two IP addresses should never be on the same subnet.

Mode
Station
Connect to SSID Select from available networks
AcuOP1-2.4G
Network Key
DHCP unsaved changes
Manual
Auto
IP
192.168.1.10
Subnet Mask
255.255.255.0
Gateway
192.168.1.1
DHCP DNS Server 1
8.8.8
Default: 8.8.8
DHCP DNS Server 2
8.8.4.4
Default: 8.8.4.4
Save

## Figure 6-Station Mode

After making any changes to the settings of the AXM-WIFI, the module will need to be rebooted from the 'Management' page.

• Click on 'Settings' and select 'Management'.



ACCUENERGY	Dashboard	Metering -	Status -	Settings <del>-</del>	Logout
Settings Communications			Meter Commu	Save	
Wi-Fi Network Email SNTP HTTP/FTP Post AcuCloud Post			Management Firmware		
Wifi Enable					
<ul><li>Disable</li><li>Enable</li></ul>					
Mode					
Access Point					Ŧ
SSID					
AXM-WIFI-AM11119999					
Network Key					
IP					
192.168.100.1					
Save					

Figure 7

• On the 'Management' page, locate the "Reset Communications Module" option and click on 'Reset'.

ACCUENERGY		Dashboard	Metering-	Status -	Settings -	Logout
Settings Management						
Setting	Action					
Reset Demand						Reset
Reset Energy						Reset
Reset Max and Min						Reset
Reset Alarm Record						Reset
Reset Communications Module						Reset
Device Clock				Wed, 04 .	Jan 2017 09:1	8:38 -0500
Reset Device Run Time						Reset
Live API Token					1	924456384
Reset API Token						Reset
Reset Admin Password	Enter new password					Save
					Show	v password
Reset View Password	Enter new password					Save

Figure 8