



# AXM-WEB2

Acuvim II/ Acuvim-L Communications Module



D A T A S H E E T

# AXM-WEB2

## Dual Ethernet and Wi-Fi Communication Module Datasheet



AXM-WEB2 includes dual Ethernet ports and Wi-Fi communication channel for the Acuvim II and Acuvim-L Series power meters. Multi-protocols are supported such as IEC61850 2nd Ed., Modbus, MQTT, Google IoT, BACnet, and DNP3 V2.



### Accuenergy Inc.

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Specs Subject To Change Without Notice.



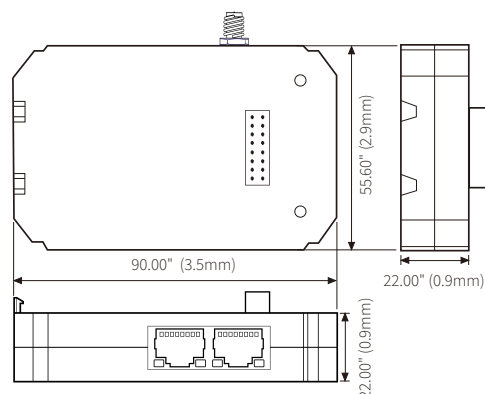
## Communication

Meter Series	Acuvim II, Acuvim-L
Ethernet	LAN Dual RJ45 10/100M Ethernet
Wi-Fi	2.4GHz, 5GHz
Protocols	IEC 61850 2nd Ed., EtherNet/IP, Modbus-TCP/IP, BACnet-IP, SNMP V3, DNP 3.0 V2, RSTP, SMTP, NTP Synchronization, HTTP/HTTPS post, FTP post, sFTP server, HTTPs webserver, Google IoT, MQTT

## Features

- + Dual Ethernet ports and Wi-Fi works simultaneously with different networks & DAQ systems. RJ45 supports individual network configuration COMTRADE file format for waveform capture and event data of electrical power systems
- + 8 GB onboard memory with 1-second interval datalogging capabilities. Metering data backup log to avoid data loss during network downtime
- + Industry leading Fast Read mode at 100ms and 20ms response rate via Modbus-TCP/IP protocol for real-time data updates
- + Secure TLS1.2/SSL compliant encrypted webserver for industry-leading cybersecurity standard EtherNet/IP and IEC 61850 protocol support for industrial automation, utility and substation
- + Remote access to WEB2 dashboard interface for real-time meter data, trend analysis, harmonics, waveform in graph and tabular format Wi-Fi supports Access Point mode and Station mode for both direct connection/configuration and public Wi-Fi network connection

## Dimensions



## Ordering Information

	Module Type	-	Protocol
<b>Ordering Example:</b>	AXM-WEB2		
	AXM	WEB2	Two Ethernet ports, Wi-Fi

# AXM-WEB2 FOLC

## Fiber Optics, Ethernet, & Wi-Fi Communication Module Datasheet



AXM-WEB2 FOLC provides fast Fiber Optics LC port, single Ethernet port and Wi-Fi communication channel for the Acuvim II and Acuvim-L Series power meter. Multi-protocols are supported such as IEC 61850 2nd Ed., EtherNet/IP, Modbus, BACnet, DNP3 V2, Google IoT, and MQTT.



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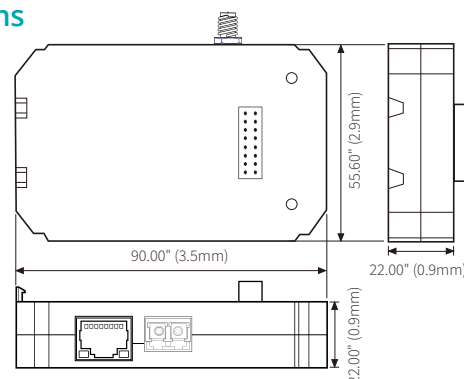
## Communication

Meter Series	Acuvim II, Acuvim-L
Fiber Optics Connector Type	LC
Wavelength	1310nm
Optical Fiber Details	Multimode 62.5/125 $\mu$ m and 50/125 $\mu$ m
Ethernet	LAN RJ45 10/100M Ethernet
Wi-Fi	2.4GHz, 5GHz
Protocols	IEC 61850 2nd Ed., EtherNet/IP, Modbus-TCP/IP, BACnet-IP, SNMP V3, DNP 3.0 V2, SMTP, NTP Synchronization, HTTP/HTTPS post, FTP post, sFTP server, HTTPs webserv-er, Google IoT, MQTT

## Features

- + Duplex Fiber Optics LC connector, Ethernet port, and Wi-Fi works simultaneously with different networks & DAQ systems.
- + Secure TLS 1.2/SSL compliant encrypted webserver for industry-leading cybersecurity standard
- + Multimode 62.5/125  $\mu$ m and 50/125  $\mu$ m for data centers, battery storage and utility
- + COMTRADE file format for waveform capture and event data of electrical power systems
- + 8 GB onboard memory with 1-second interval datalogging capabilities. Metering data backup log to avoid data loss during network downtime
- + Industry leading Fast Read mode at 100ms and 20ms response rate via Modbus-TCP/IP protocol for real-time data update
- + 802.3u Fast Ethernet 100Base-FX compatible up to 2km
- + EtherNet/IP and IEC 61850 protocol support for industrial automation, utility and substation
- + Remote access to WEB2 dashboard interface for real-time meter data, trend analysis, harmonics, waveform in graph and tabular format
- + Wi-Fi supports Access Point and Station mode for both direct connection/configuration & public Wi-Fi network connection

## Dimensions



## Ordering Information

	Module Type	-	Protocol
<b>Ordering Example:</b>	AXM-WEB2 FOLC		
	AXM	WEB2 FOLC	Ethernet, Fiber Optics LC, Wi-Fi

# AXM-WEB2-D

## Dual Ethernet Communication Module Datasheet



AXM-WEB2-D includes dual Ethernet ports for the Acuvim II and Acuvim-L Series power meters. Multi-protocols are supported such as IEC61850 2nd Ed., Modbus, BACnet, MQTT, Google IoT, and DNP3 V2.



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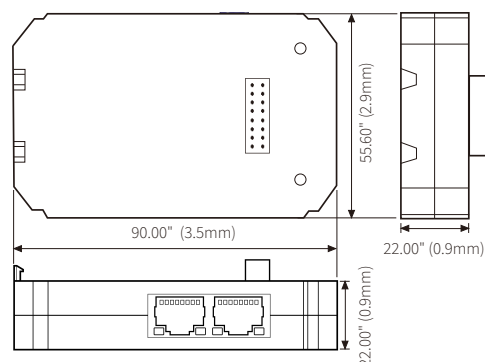
## Communication

Meter Series	Acuvim II, Acuvim-L
Ethernet	LAN Dual RJ45 10/100M Ethernet
Protocols	IEC 61850 2nd Ed., EtherNet/IP, Modbus-TCP/IP, BACnet-IP, SNMP V3, DNP 3.0 V2, RSTP, SMTP, NTP Synchronization, HTTP/HTTPS post, FTP post, sFTP server, HTTPs webserver, Google IoT, MQTT

## Features

- + Dual Ethernet ports works simultaneously with different networks & DAQ systems. RJ45 supports individual network configuration
- + COMTRADE file format for waveform capture and event data of electrical power systems
- + 8 GB onboard memory with 1-second interval datalogging capabilities. Metering data backup log to avoid data loss during network downtime
- + Industry leading Fast Read mode at 100ms and 20ms response rate via Modbus-TCP/IP protocol for real-time data updates
- + Secure TLS1.2/SSL compliant encrypted webserver for industry-leading cybersecurity standard
- + EtherNet/IP and IEC 61850 protocol support for industrial automation, utility, and substation
- + Remote access to WEB2 dashboard interface for real-time meter data, trend analysis, harmonics, waveform in graph and tabular format
- + Wi-Fi supports Access Point mode and Station mode for both direct connection/ configuration and public Wi-Fi network connection

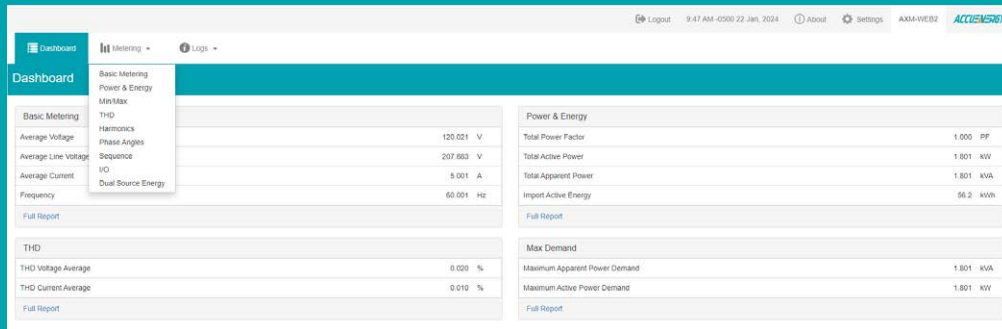
## Dimensions



## Ordering Information

Module Type	-	Protocol
<b>Ordering Example: AXM-WEB2-D</b>		
AXM	WEB2-D	Two Ethernet ports

# WEB2 Interface

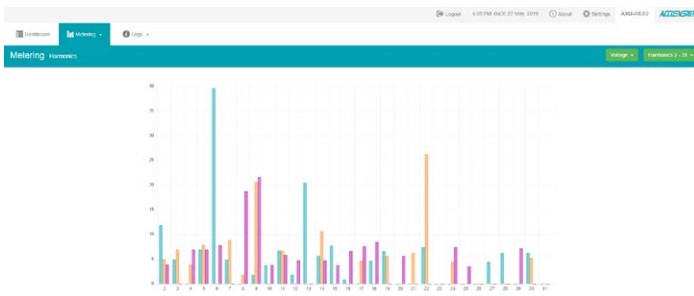


## Metering Dashboard

- + Basic Metering
- + Power & Energy
- + Min/Max
- + THD
- + Harmonics
- + Phase Angles
- + Sequence
- + I/O

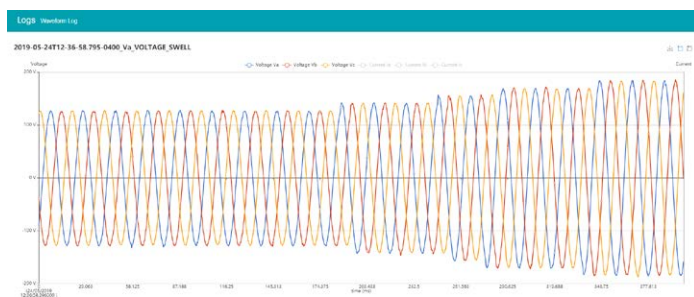
## Metering Harmonics

Display voltage and current harmonics between 2<sup>nd</sup> - 3<sup>rd</sup> or 32<sup>nd</sup> - 63<sup>rd</sup> ingraphical and tabular format. Parameters are updated every 15 seconds.



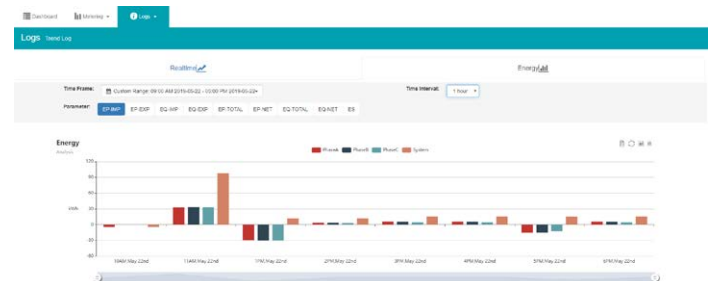
## Waveform Log

Available for Acuvim IIW, it supports waveform capture when a power quality event occurs 10 cycles before and after the triggering point for voltage sag, swells, or over-current.



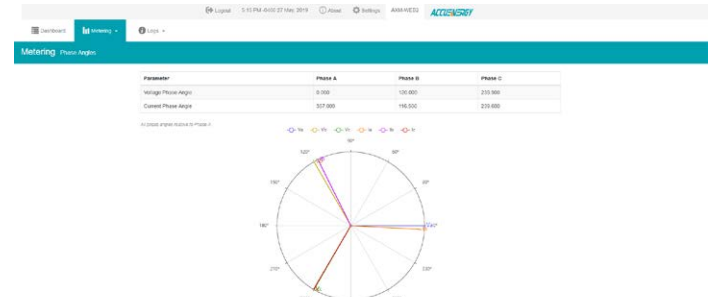
## Trend Log

The real-time trend and energy trend graph shows a number of different parameters with option to configure different time frames and time intervals.




## Phase Angle

Visual diagram of the phase angles of voltage and current waveform and can be used for remote troubleshooting. Parameters are updated every 10 seconds.



COMMUNICATION MODULES

● Function; ◉ Option; Blank NA

Standard		AXM WEB2 FOLC	AXM WEB2	AXM-WEB2-D
				
Modbus-RTU	●			
BACnet-MS/TP	●			
DNP 3.0 Over IP		●	●	●
IEC 61850		●	●	●
Modbus-TCP/IP		●	●	●
HTTP/HTTPs Webserver		●	●	●
SMTP Email		●	●	●
SNMP V3		●	●	●
EtherNet/IP		●	●	●
MQTT		●	●	●
RSTP		●	●	●
IPv6		●	●	●
HTTP/HTTPs Push		●	●	●
FTP Post		●	●	●
sFTP Server		●	●	●
Datalogging	16MB	8GB	8GB	8GB
BACnet-IP		●	●	●
PROFIBUS				
Wi-Fi		●	●	
RJ45 Ports		1	2	2
Fiber Optics LC		●		