ACCUENERGY

AXM-WEB2

Acuvim II/ Acuvim-L Communications Module

DATASHEET

AXM-WEB2

Dual Ethernet and Wi-Fi
Communication Module
Datasheet

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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

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.

Dimensions

55.60" (2.9mm)
90.00" (3.5mm)
22.00" (0.9mm)
22.00" (0.9mm)
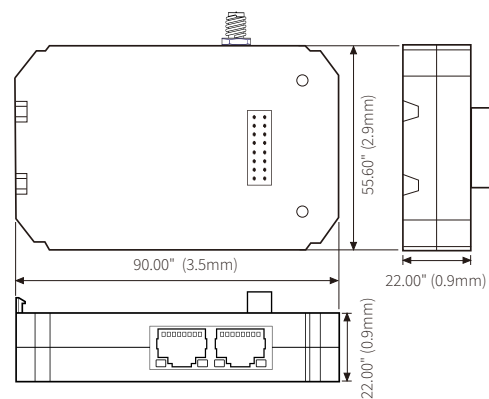
Ordering Information

	Module Type	-	Protocol	
Ordering Example:	AXM-WEB2			
	AXM		WEB2	Two Ethernet ports, Wi-Fi

AXM-WEB2 FOLC

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

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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 μm and 50/125 μm
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 webserver, 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 μm and 50/125 μm 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

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.

Dimensions

55.60" (2.9mm)

90.00" (3.5mm)

22.00" (0.9mm)

22.00" (0.9mm)
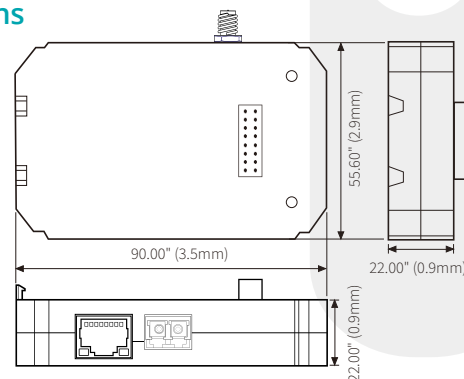
Ordering Information

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

AXM-WEB2-D

Dual Ethernet Communication
Module Datasheet

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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

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.
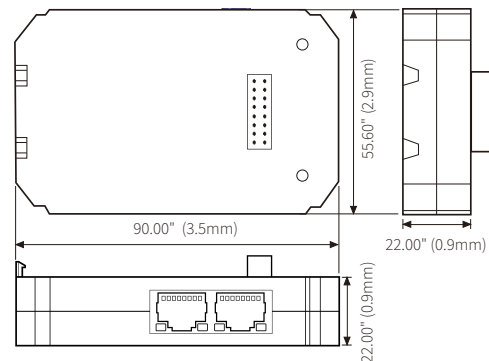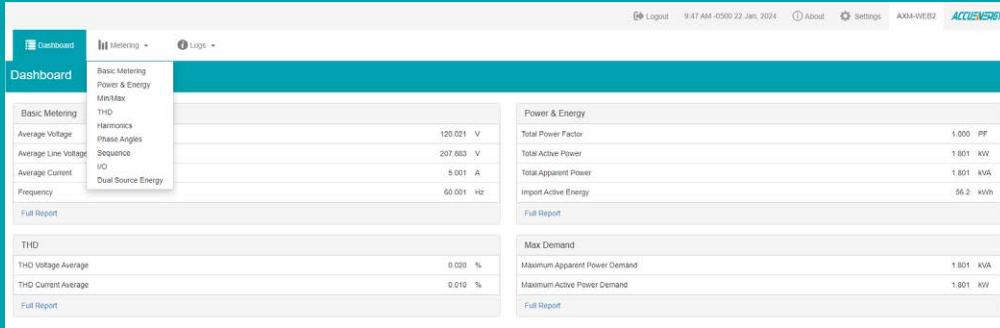
Dimensions

55.60" (2.9mm)

90.00" (3.5mm)

22.00" (0.9mm)

22.00" (0.9mm)

Ordering Information

	Module Type	-	Protocol	
Ordering Example:	AXM-WEB2-D			
	AXM		WEB2-D	Two Ethernet ports

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Web: www.accuenergy.com
Email: marketing@accuenergy.com
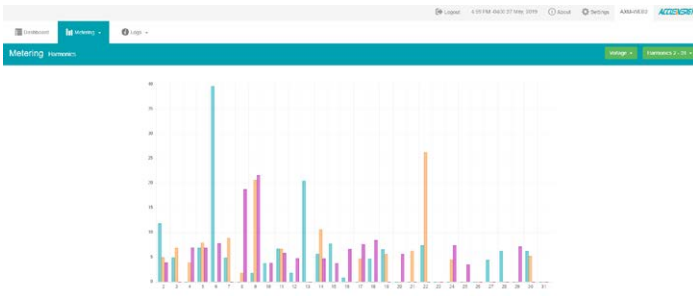
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WEB2 Interface

Metering Dashboard

+ Basic Metering   + THD   + Sequence

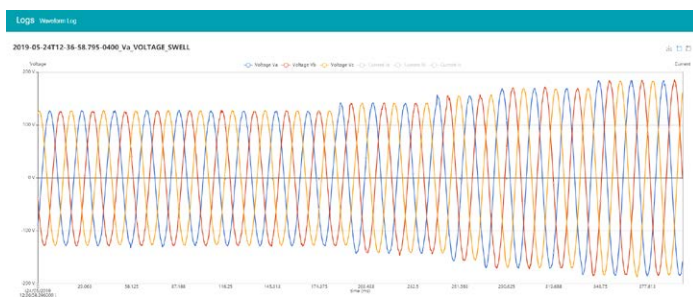+ Power & Energy   + Harmonics   + I/O

+ Min/Max   + Phase Angles

Metering Harmonics

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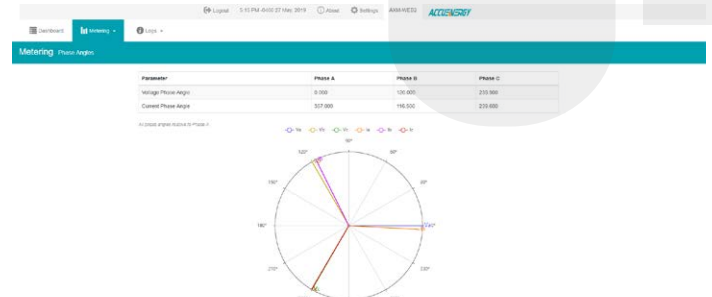

Trend Log

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

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.

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

	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		●		