

Acuvim II

Advanced Power & Energy Meter Datasheet

ACCUENERGY



EN55011



Modbus



MV90



FEATURES

NEW Revenue Grade: ANSI C12.20 class 0.1 & IEC 62053-22 class 0.1s

NEW 4th CT input - Measure neutral current

NEW Dual Ethernet Ports with both RSTP bridge daisy-chain mode and separately configurable network

NEW High Resolution Frequency Measurements utilizes a custom moving average filter with 0.001Hz and 10mHz accuracy. Window size ranges 1 - 50 cycles, and update rate varies 1 - 2 cycles

+ Data Logging available in 16MB, and 8GB with WEB2 module

NEW High Speed update rate Fast Read mode offered in 100ms and 20ms via Modbus RTU and TCP/IP, Fast Log offered at 100ms and 50ms intervals

+ Available compatibility with multiple CT output options including 5A mA, Accuenergy Rogowski coil, or 333mV

+ Modbus-RTU & BACnet MS/TP ready. Optional modules add support for multiple industrial protocols & interfaces such as Modbus-TCP/IP, BACnet-IP, IEC 61850, Wi-Fi, & EtherNet/IP

DESCRIPTION

The Acuvim II Series advanced power and energy meters are the robust solution for power monitoring, kWh metering, power quality analysis, and more. This multifunction meter is engineered for easy integration into any project environment and a wide array of plug-in expansion modules facilitate communication on over 15 different industry-standard protocols. Its two, available form factors include a Panel Mount meter with a digital display or a DIN Rail Transducer configuration.

KEY FEATURES

Communication

- + Modbus RTU Protocol and BACnet MS/TP via RS485
- + Wi-Fi and Ethernet Communication Channels (Modbus TCP, BACnet IP, HTTP, SMTP, SNTP, HTTPS, Post, FTP)
- + PROFIBUS DP
- + Dual RJ45 ports with RSTP daisy-chain and two individually configurable Ethernet ports

Data Logging

- + Acuvim II meters offer three, assignable historical logs and a real time clock to record many metering parameters with accurate timestamping. Add the AXM-WEB2 module to expand the memory to 8GB with an adjustable log size.
- + WEB2 module offers additional granularity to data logging such as 1 second interval timing and max/min/average and instantaneous reading for real time parameters.

Fast Response

- + 512 samples per cycle for measurement, 100ms and 20ms Modbus refresh rate, and 100ms and 50ms options for Fast Logging for real time parameters including Frequency and Active Power.

Time of Use

- + Users can assign up to four tariffs (sharp, peak, valley, & normal) to different time periods within a day. The Acuvim II meter will calculate and accumulate energy to different tariffs according to the meter's internal clock and TOU settings.

Optional I/O Module

- + Expand Acuvim II I/O functionality by connecting an optional I/O module. A maximum of three modules can be used per meter. Digital input, digital output, pulse output, relay output, analog input, and analogue output I/O modules are available.

Alarms

- + Limits can be set for up to 16 indicated parameters with a specified time interval. Parameters that are over or under the setting limit and persist longer than the specified time interval will be recorded and trigger the Alarm DO. Choose from 80 available parameters.

Flexible Current Transformer Options

- + The Acuvim II is directly compatible with Rogowski coils plus a variety of other current transformer outputs including 5A, 1A, 80mA, 100mA, 200mA, and 333mV. All CTs are available from Accuenergy.



APPLICATIONS

- + Submetering
- + Energy Storage, Microgrids, and VPPs
- + Power Generation
- + Load Banks
- + Building Automation
- + PDUs and Data Centers
- + Energy Management Systems
- + Substation and distribution systems
- + Transformer Monitoring
- + Measurement & Verification

SPECIFICATIONS

Metering

PARAMETERS	ACCURACY	RESOLUTION	RANGE
Voltage	0.1%	0.1V	10V~1000kV
Current	0.1%	0.1mA	5mA~50000A
Power	0.1%	1W	-9999MW~9999MW
Reactive Power	0.1%	1var	-9999Mvar~9999Mvar
Apparent Power	0.1%	1VA	0~9999MVA
Power Demand	0.1%	1W	-9999MW~9999MW
Reactive Power Demand	0.1%	1var	-9999Mvar~9999Mvar
Apparent Power Demand	0.1%	1VA	0~9999MVA
Power Factor	0.1%	0.001	-1.000~1.000
Frequency	0.001%	0.001Hz	45.00~65.00Hz
Energy	Primary 0.1	0.1kWh	0-99999999.9kWh
	Primary 0.001	0.001kWh	0-999999.999kWh
	Secondary	0.001kWh	0-999999.999kWh
Reactive Energy	Primary 0.1	0.1kvarh	0-99999999.9kvarh
	Primary 0.001	0.001kvarh	0-999999.999kvarh
	Secondary	0.001kvarh	0-999999.999kvarh
Apparent Energy	Primary 0.1	0.1kVAh	0-99999999.9kVAh
	Primary 0.001	0.001kVAh	0-999999.999kVAh
	Secondary	0.001kVAh	0-999999.999kVAh
Harmonics	1.0%	0.10%	
Phase Angle	2.0%	0.1°	0.0°~359.9°
Unbalance Factor	2.0%	0.10%	0.0%~100.0%
Running Time		0.01h	0~9999999.99h

Input

CURRENT INPUTS (EACH CHANNEL)

Nominal Current Options	① 5A, ② 1A, ③ 333mV, ④ Rogowski Coil, ⑤ 80mA/100mA/200mA
Metering Range	① 0-10A, ② 0-2A, ③ 0-400mV, ④ 0-400mV, ⑤ 0-240mA
Pickup Current	① 5mA, ② 1mA, ③ 0.25mV, ④ 0.25mV, ⑤ 0.15mA
Withstand	20Arms Continuous, 0.1% of Nominal 100Arms for 1 second, Non-Recurring
Burden	0.05VA (Typical) @ 5A RMS
Accuracy	0.1% at Reading

VOLTAGE INPUTS (EACH CHANNEL)

Nominal Full Scale	400Vac L-N, 690Vac L-L (+20%)
Withstand	1500Vac Continuous 2500Vac, 50/60Hz for 1 Minute
Input Impedance	2MΩ per Phase
Metering Frequency	45Hz~65Hz
Pickup Voltage	10Vac
Accuracy	0.1% at Reading

ENERGY ACCURACY

Active	Class 0.1s (According to IEC 62053-22) Class 0.1 (According to ANSI C12.20)
Reactive	Class 0.5s (According to IEC 62053-24)

HARMONIC RESOLUTION

Metered Value	63rd Harmonic
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Communication

Modbus-RTU or BACnet MS/TP	Modbus-RTU 2-Wire Shielded Twisted Pair Cable Connection 2400~115200 bps
SECOND RS-485 PORT (OPTIONAL MODULE)	Same as the primary RS485 port Baud Rate: 4800~38400 bps
ETHERNET (OPTIONAL MODULE)	Ethernet 10M/100M BaseT MODBUS-TCP/IP DNP 3.0 Over IP Level 2 IEC 61850 2nd Edition SNMP V3 BACnet-IP HTTP/HTTPs Webserver HTTP/HTTPs, FTP data post SMTP MQTT MV90 NTP
PROFIBUS (OPTIONAL MODULE)	PROFIBUS-DP/V0 Protocol Work as PROFIBUS Slave, Baud Rate Adaptive, up to 12M Model 1: Input Bytes: 32, Output Bytes: 32 Model 2: Input Bytes: 64, Output Bytes: 2 PROFIBUS Standard According to EN 50170 Vol. 2

SPECIFICATIONS

I/O Options		Control Power			
DIGITAL INPUT		Universal			
Input Type		AC or DC			
Input Resistance		100kΩ			
Input Voltage Range		20~160 Vac/dc			
Input Current (Max)		2mA			
Start Voltage		15V			
Stop Voltage		5V			
Pulse Frequency (Max)		100Hz, 50% Duty Ratio (5ms ON and 5ms OFF)			
SOE Resolution		2ms			
DIGITAL OUTPUT (DO) (PHOTO-MOS)					
Voltage Range		0~250Vac/dc			
Load Current		100mA (Max)			
Output Frequency		25Hz, 50% Duty Ratio (20ms ON, 20ms OFF)			
Isolation Voltage		2500Vac			
RELAY OUTPUT (RO) (NO, Form A)					
Switching Voltage (Max)		250Vac, 30Vdc			
Load Current		5A (R), 2A (L)			
Set Time		10ms (Max)			
Contact Resistance		30mΩ (Max)			
Isolation Voltage		2500Vac			
Mechanical Life		1.5x10 ⁷			
ANALOG OUTPUT (AO)					
Output Range		0~5V, 0~20mA 1~5V, 4~20mA Optional			
Accuracy		0.50%			
Temperature Drift		50ppm/°C Typical			
Isolation Voltage		500Vdc			
Open Circuit Voltage		15V			
ANALOG OUTPUT (AI)					
Input Range		0~5V, 0~20mA 1~5V, 4~20mA Optional			
Accuracy		0.20%			
Temperature Drift		50ppm/°C Typical			
Isolation Voltage		500Vdc			
POWER SUPPLY FOR DI (24 VDC)					
Output Voltage		24Vdc			
Output Current		42mA			
Load (Max)		21DI			
Control Power					
AC/DC CONTROL POWER		Universal			
Operating Range		100~415Vac, 50/60Hz; 100~300Vdc			
Burden		5W			
Frequency		50/60Hz			
Withstand		3250Vac, 50/60Hz for 1 minute			
Installation Category III (Distribution)					
LOW VOLTAGE DC CONTROL POWER (OPTIONAL)					
Operating Range		20~60Vdc			
Burden		5W			
Operating Environment					
Operating Temperature		-25°C to 70°C -13°F to 158°F			
Storage Temperature		-40°C to 85°C -40°F to 176°F			
Relative Humidity		5% to 95% Non-Condensing			
Standard Compliance & Certifications					
Measurement Standard		IEC 62053-22; ANSI C12.20; IEC61557-12			
Environmental Standard		IEC 60068-2, CE, RoHS			
Safety Standard		IEC 61010-1, UL 61010-1			
EMC Standard		IEC 61000-4-2-3-4-5-6-8-11, CISPR 22, IEC 61000-3-2, IEC 61000-6-2/4, EN55011			
Outlines Standard		DIN 43700, ANSI C39.1			
Protocol Conformance		IEC 61850 2nd Edition BTL Listed for B-SA			

FUNCTION LIST

● Function; ○ Option; □ Blank NA

REAL TIME MEASURING	Parameters	Acuvim IIR	Acuvim IIW
Phase Voltage	V1, V2, V3, Vlavg	●	●
Line Voltage	V12, V23, V31, Vllavg	●	●
Current	I1, I2, I3, In, lavg	●	●
Power	P1, P2, P3, Psum	●	●
Reactive Power	Q1, Q2, Q3, Qsum	●	●
Apparent Power	S1, S2, S3, Ssum	●	●
Power Factor	PF1, PF2, PF3, PF	●	●
Frequency	F	●	●
Load Features	L/C/R	●	●
Four Quadrant Powers	Four Quadrant Powers	●	●
INDEPENDENT CHANNEL			
System Phase Voltage	V1, V2, V3, Vlavg	●	●
System Line Voltage	V12, V23, V31, Vllavg	●	●
System Frequency	F	●	●
Current	Ichannel1, Ichannel2, Ichannel3, Ichannel4, Isum_1avg, Isum_2avg	●	●
Power	Pchannel1, Pchannel2, Pchannel3, Pchannel4, Psum_1, Psum_2	●	●
Reactive Power	Qchannel1, Qchannel2, Qchannel3, Qchannel4, Qsum_1, Qsum_2	●	●
Apparent Power	Schannel1, Schannel2, Schannel3, Schannel4, Ssum_1, Ssum_2	●	●
Power Factor	PFchannel1, PFchannel2, PFchannel3, PFchannel4, PFsum_1, PFsum_2	●	●
Load Features	Load Features	●	●
Four Quadrant Powers	Four Quadrant Powers	●	●
Energy	Echannel1_imp, Echannel2_imp, Echannel3_imp, Echannel4_imp Echannel1_exp, Echannel2_exp, Echannel3_exp, Echannel4_exp Esum1_imp, Esum2_imp, Esum1_exp, Esum2_exp Esum1_Totoal, Esum2_Total, Esum1_Net, Esum2_Net	●	●
Reactive Energy	Eqchannel1_imp, Eqchannel2_imp, Eqchannel3_imp, Eqchannel4_imp, Eqchannel1_exp, Eqchannel2_exp, Eqchannel3_exp, Eqchannel4_exp, Eqsum1_imp, Eqsum2_imp, Eqsum1_exp, Eqsum2_exp, Eqsum1_Total, Eqsum2_Total, Eqsum1_Net, Eqsum2_Net	●	●
Apparent Energy	Eschannel1, Eschannel2, Eschannel3, Eschannel4, Esum1, Esum2	●	●
Demand	Dmd_Pchannel1, Dmd_Pchannel2, Dmd_Pchannel3, Dmd_Pchannel4, Dmd_Qchannel1, Dmd_Qchannel2, Dmd_Qchannel3, Dmd_Qchannel4, Dmd_Schannel1, Dmd_Schannel2, Dmd_Schannel3, Dmd_Schannel4, Dmd_Psum1, Dmd_Psum2, Dmd_Qsum1, Dmd_Qsum2 Dmd_Ssum1, Dmd_Ssum2, Dmd_Ichannel1, Dmd_Ichannel2, Dmd_Ichannel3, Dmd_Ichannel4	●	●
ENERGY			
Active Energy	Ep_imp, Ep_exp, Ep_total, Ep_net, Epa_imp, Epa_exp, Epb_imp, Epb_exp, Epc_imp, Epc_exp, Ep_q1, Ep_q2, Ep_q3, Ep_q4	●	●
Reactive Energy	Eq_imp, Eq_exp, Eq_total, Eq_net, Eqa_imp, Eqa_exp, Eqb_imp, Eqb_exp, Eqc_imp, Eqc_exp	●	●
Apparent Energy	Es_imp, Es_exp, Es_total, Es_net, Esa, Esb, Esc, Es_q1, Es_q2, Es_q3, Es_q4	●	●
DUAL SOURCE ENERGY			
Energy to Generator	Energy1_Generator, Energy2_Generator, Energy3_Generator	●	●
Energy to Grid	Energy1_Grid, Energy2_Grid, Energy3_Grid	●	●
DEMAND			
Current Demand	Dmd_I1, Dmd_I2, Dmd_I3, Dmd_In	●	●
Power Demand	Dmd_Psum, Dmd_Qsum, Dmd_Ssum	●	●
TIME			
Real-Time Clock	Year, Month, Day, Hour, Minute, Second	●	●

FUNCTION LIST

HOUR			
Meter Running Time	Hour	●	●
Load Running Time	Hour	●	●
POWER QUALITY			
Voltage Unbalance	U_unbl	●	●
Current Unbalance	I_unbl	●	●
Voltage THD	THD_V1, THD_V2, THD_V3, THD_Vavg	●	●
Current THD	THD_I1, THD_I2, THD_I3, THD_Iavg	●	●
Individual Harmonics	Harmonics 2nd to 63rd (50Hz or 60Hz)	●	●
Voltage Crest Factor	Crest Factor	●	●
TIF	THFF	●	●
Current K Factor	K Factor	●	●
SEQUENCE			
Voltage/Current Sequence	Positive Sequence, Negative Sequence, Zero Sequence	●	●
Phase Order	ABC, ACB	●	●
PHASE ANGLES			
Voltage/Current Phase Angles	Voltage Phase Angle, Current Phase Angle	●	●
STATISTICS			
MAX with Time Stamp	Each Phase of V & I, Total of P, Q, S, PF & F,	●	●
MIN with Time Stamp	Demand of I1, I2, I3, IN, P, Q, & S, Each Phase THD of V & I, Unbalance Factor of V & I	●	●
ALARM			
Over/Under Limit Alarm	V, I, P, Q, S, PF, V_THD & I_THD Each Phase and Total/Average, Unbalance Factor of V&I, Load Type, Analog and Digital Input of Each Channel, Demand of I1, I2, I3, P, Q & S, Reverse Phase Sequence	●	●
WAVEFORM CAPTURE			
Voltage and Current Waveform	Trigger, Manual, DI change, Sag/Dip, Swell, Over Current	●	
POWER QUALITY EVENT LOGGING			
Power Quality Event with Time Stamp	Voltage SAG and fail, Current overflow, Phase Sequence Error	●	
DATA LOGGING			
Data Logging 1	Frequency V1, V2, V3, Vlavg V12, V23, V31, Vllavg I1, I2, I3, In, Iavg P1, P2, P3, Psum Q1, Q2, Q3, Qsum S1, S2, S3, Ssum Ep_imp, Ep_exp, Ep_total, Ep_net, Eq_imp, Eq_exp Eq_total, Eq_net, Es_imp, Es_exp, Es_total, Es_net	●	●
Data Logging 2	Epa_imp, Epa_exp, Epb_imp, Epb_exp, Epc_imp, Epc_exp		
Data Logging 3	Eqa_imp, Eqa_exp, Eqb_imp, Eqb_exp, Eqc_imp, Eqc_exp		
Data Logging 4	Esa_imp, Esa_exp, Esb_imp, Esb_exp, Esc_imp, Esc_exp PF1, PF2, PF3, PF U_unbl, I_unbl Load Type THD_V1, THD_V2, THD_V3, THD_Vavg THD_I1, THD_I2, THD_I3, THD_Iavg Harmonics 2nd to 63rd, Crest Factor, THFF, K Factor Sequence, phase angles DI counter, AI, AO Dmd P, Dmd Q, Dmd S, Dmd_I1, Dmd_I2, Dmd_I3		

FUNCTION LIST

TIME OF USE			
Energy/Max Demand	TOU, 4 Tariffs, 12 Seasons, 14 Schedules	●	●
Daylight Saving Time	Two Adjustable Formats	●	●
I/O MODULE			
Switch Status (DI)	Digital Input	○	○
Power Supply for DI	24V DC	○	○
Relay Output (RO)	NO, Form A	○	○
Digital Output (DO)	Photo-MOS	○	○
Pulse Output (PO)	By Using DO	○	○
Analog Input (AI)	0 (4) – 20mA, 0 (1) – 5V	○	○
Analog Output (AO)	0 (4) – 20mA, 0 (1) – 5V	○	○
COMMUNICATION			
RS485 Port, Half Duplex, Optical Isolated	Modbus-RTU/BACnet Protocol	●	●
Ethernet Module	Modbus-TCP, HTTP, SMTP, SNTP, Modbus Gateway Passthrough	○	○
RS-485 Module	Modbus-RTU Protocol	○	○
PROFIBUS Module	PROFIBUS-DP/V0 Protocol	○	○
ONBOARD MEMORY SIZE			
Memory	Bytes	16MB	16MB
DISPLAY			
LCD or DIN Rail		○	○
DIMENSIONS			
96×96×64.3mm (Opening Size: 92 × 92mm)			

COMMUNICATION MODULES

● Function; ○ Option; Blank NA

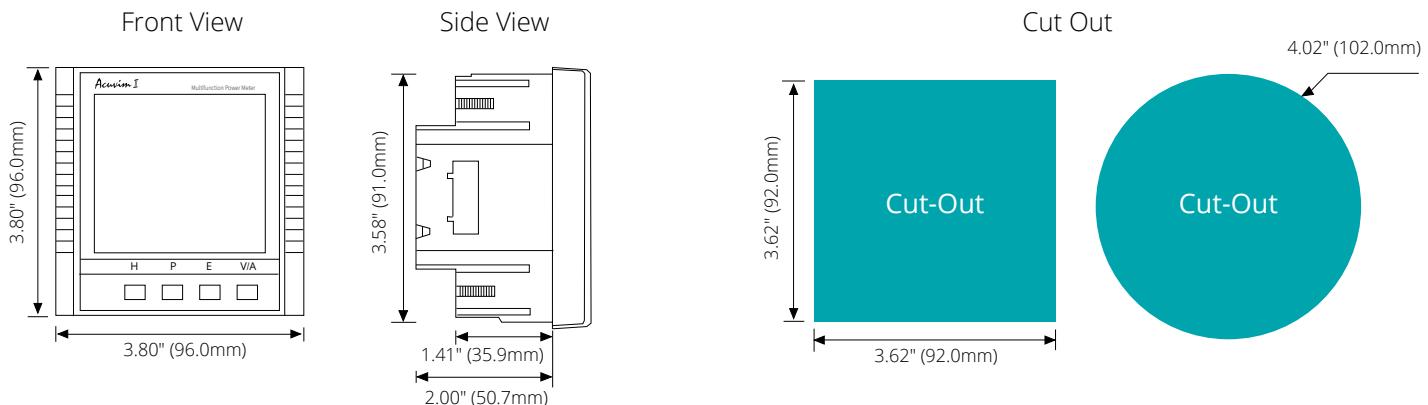
Standard	AXM WEB2 FOLC	AXM WEB2	AXM WEB2-D	AXM PROFI	AXM RS485	AXM WEB PUSH
						
Modbus-RTU	●				●	
BACnet-MS/TP	●					
DNP 3.0 Over IP	●	●	●			●
IEC 61850	●	●	●			
Modbus-TCP/IP	●	●	●			●
HTTP/HTTPPs Webserver	●	●	●			●
SMTP Email	●	●	●			●
SNMP V3	●	●	●			●
EtherNet/IP	●	●	●			
MQTT	●	●	●			
RSTP	●	●	●			
IPv6	●	●	●			
HTTP/HTTPPs Push	●	●	●			●
FTP Post	●	●	●			●
sFTP Server	●	●	●			●
Datalogging	16MB	8GB	8GB	8GB		4GB
BACnet-IP	●	●	●			
PROFIBUS				●		
Wi-Fi	●	●				
RJ45 Ports	1	2	2			1
Fiber Optics LC	●					

IO MODULES

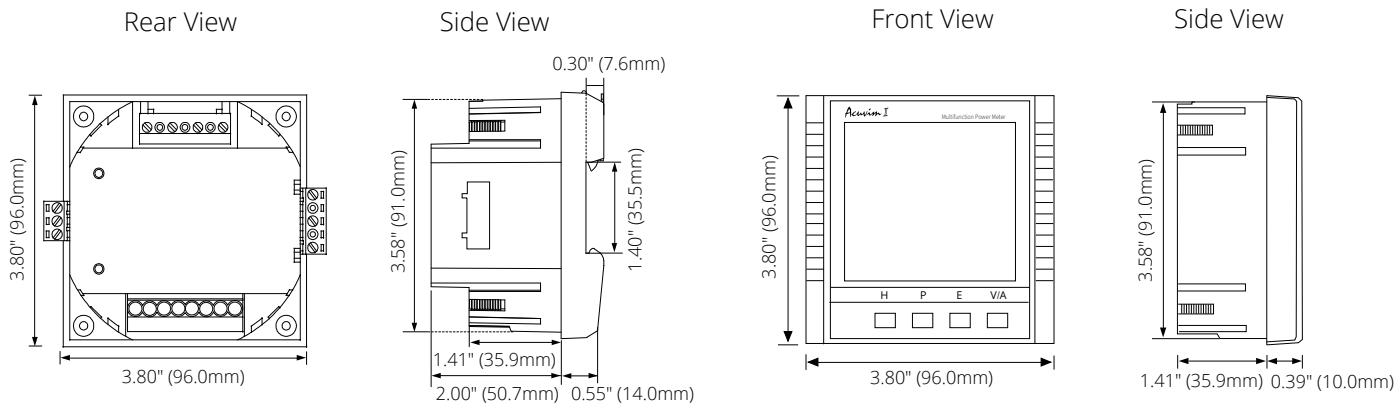
	AXM-IO1	AXM-IO2	AXM-IO3
			
Digital Input (Dry)	6	4	4
Digital Output		2	
Relay Output	2		2
Analogue Inputs			2
Analogue Outputs		2	
Power Supply	24Vdc		

DIMENSIONS

Acuvim II Dimensions

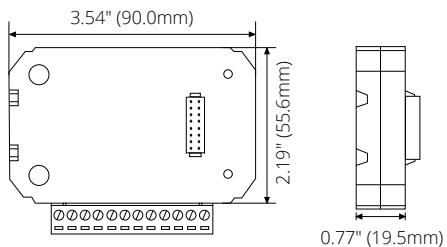


DIN Mount Meter Dimensions

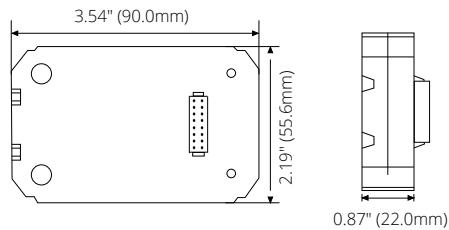


- Note:**
1. *Display module is connected with a six-foot 10 pin RJ50 cable, if you need a longer cable please specify that in the ordering statement.*
 2. *Display module opening size and Acuvim II body openings are exactly the same size.*

I/O Module Dimensions

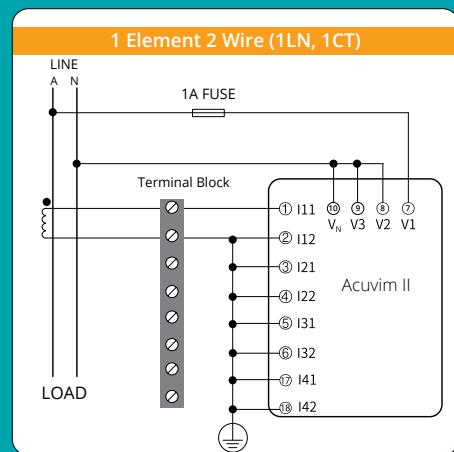
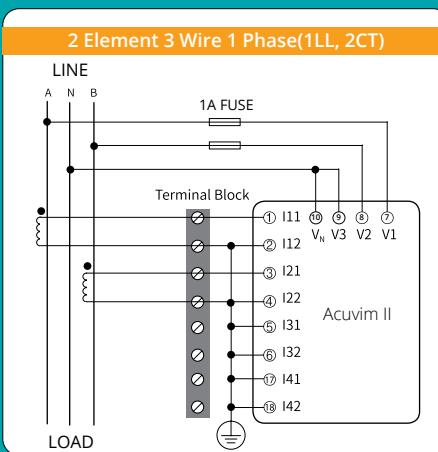
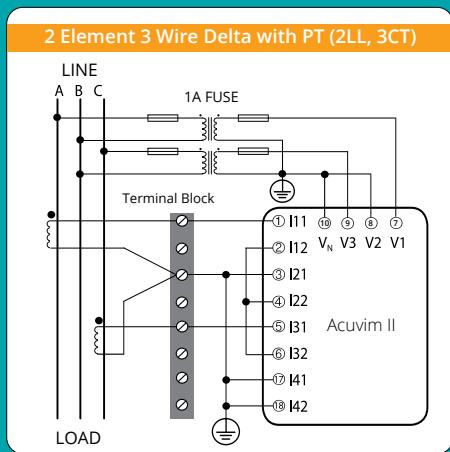
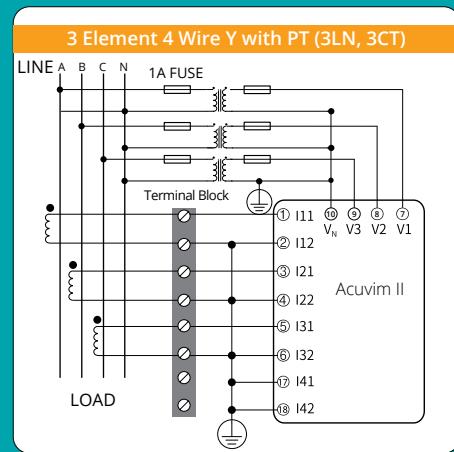
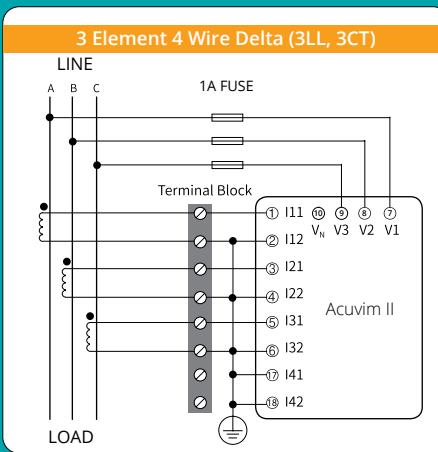
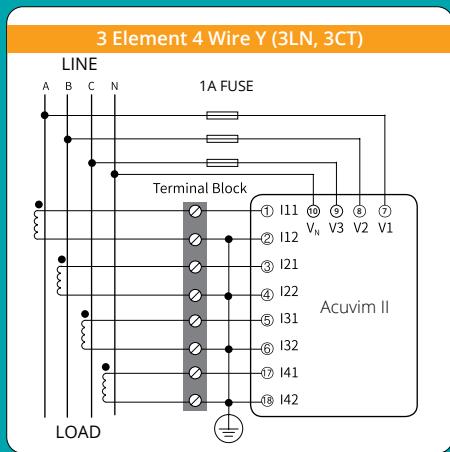


Communication Module Dimensions

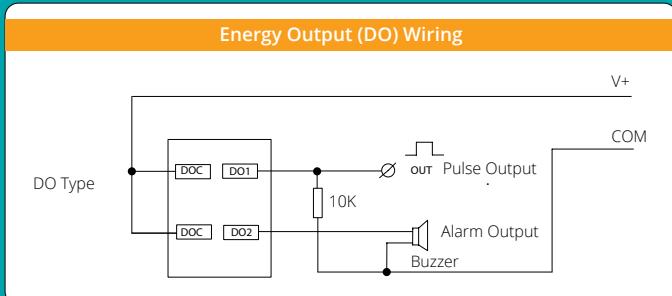
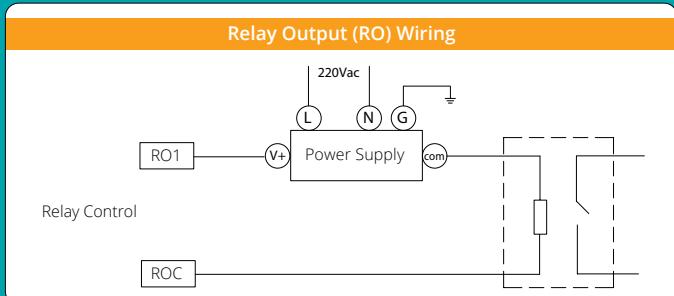
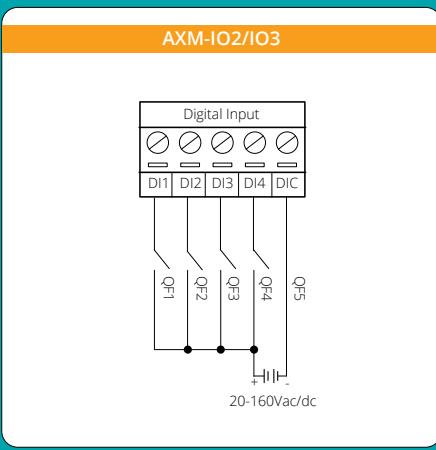
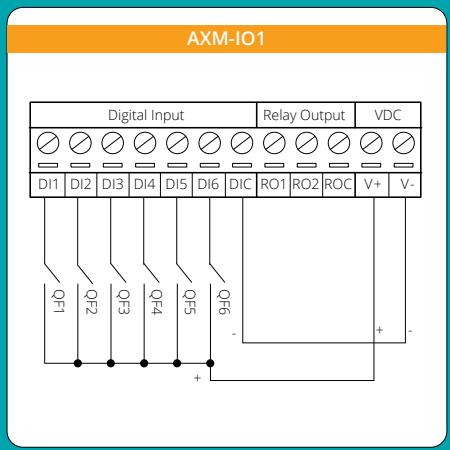


WIRING DIAGRAMS

Typical Wiring With 5A/1A CTs



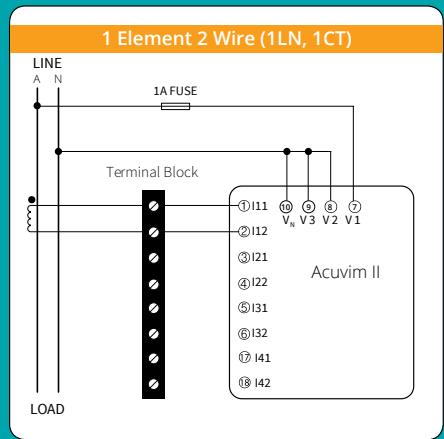
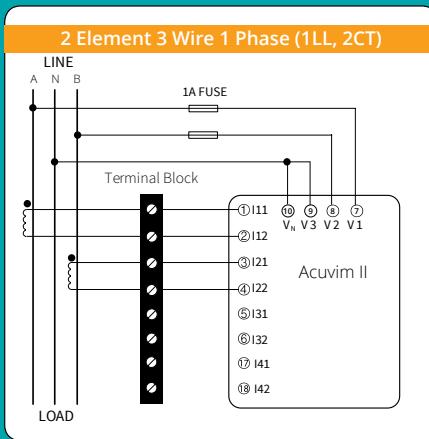
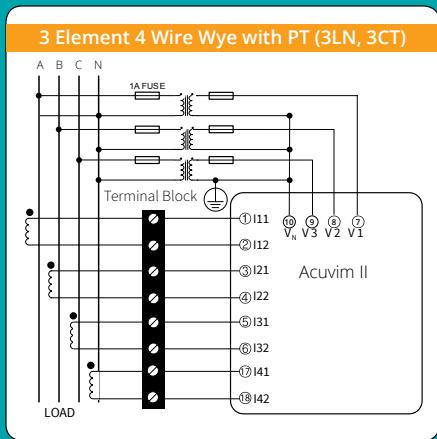
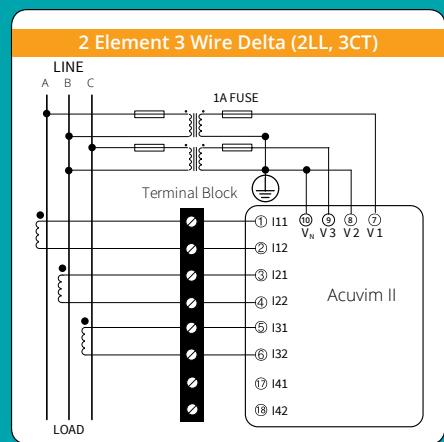
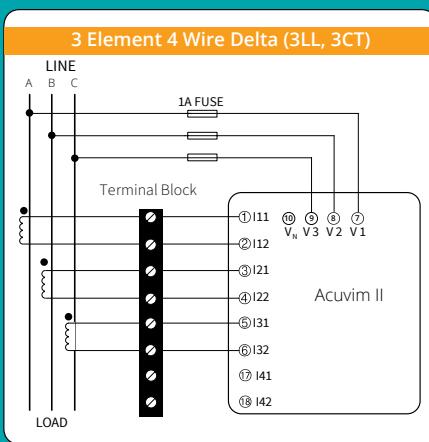
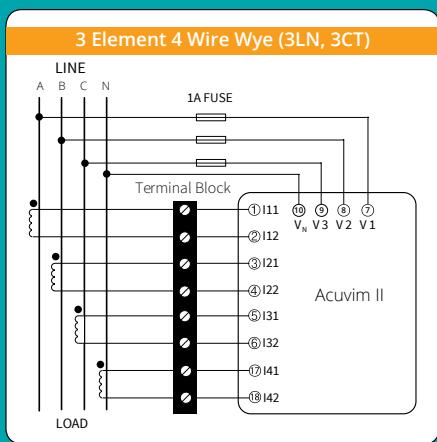
I/O Module Wiring



*Note: 2CT configuration is optional only in 3 Phase 3 Wire system.

WIRING DIAGRAMS

Typical Wiring RCT/mV/mA Current Input



*Note: 2CT configuration is optional only in 3 Phase 3 Wire system.

ACCESSORIES

DIN Rail Adapter

The AXM-DIN Rail Adapter is the easy way to mount the Acuvim II Series energy meter on either horizontal or vertical DIN rail. The adapter quickly secures to the meter and is compatible with all AXM communication modules as well as I/O options.



Protective Display Cover

The Protective Display Cover is designed for Acuvim II Series energy meters and other 96mm by 96mm display panel meters. Crucial in harsh environments, it increases the IP environmental rating of a meter's display to IP66 or NEMA 4X.



USB RS485 Converter

This plug-and-play USB to Serial RS485 Converter is designed to provide a convenient, reliable USB connection to the Acuvim II Series power meters and other serial devices.



ORDERING INFORMATION

Meter Model	Mounting Option	Current Input	Power Supply
Acuvim IIR: Data logging, TOU	D: LCD Display (Panel Mount Meter/Transducer)	5A: 5A/1A (Input Field Selectable)	P1V3: 100~415Vac, 50/60Hz, 100~300Vdc
Acuvim IIW: IIW + Waveform Capture and PQ Event Logging	M: DIN-Rail Mount Transducer without Display (Optional Remote Display Available)	mV: 333mV and Rogowski Coil (Input Field Selectable)	P2V3: 20~60Vdc
		mA: 80mA/100mA/200mA (Input Field Selectable)	
Ordering Example:		Acuvim-IIR-M-mV-P2V3	
		Acuvim-IIW-D-5A-P1V3	

Note: 1. Accuenergy suggests using USB-RS485 converter for configuration, and 3 CTs per three phase circuits.
2. All fields must be completed to create a part number.
3. Add "S" after power supply for anti-tampering seal option.

Communication Module (Optional)	Protocols
AXM	WEB2-FOLC: IEC 61850, Modbus-TCP, HTTP/HTTPPs Webserver, SMTP Email, SNMP, HTTP/HTTPPs Push, FTP Post, sFTP Server, BACnet-IP, Datalogging, Wi-Fi, Fiber Optics LC, Ethernet port, EtherNet/IP, MQTT, Google IoT, Modbus Gateway Passthrough
	WEB2: IEC 61850, Modbus-TCP, HTTP/HTTPPs Webserver, SMTP Email, SNMP, HTTP/HTTPPs Push, FTP Post, sFTP Server, BACnet-IP, Datalogging, Wi-Fi, Dual Ethernet Ports, EtherNet/IP, MQTT, Google IoT, Modbus Gateway Passthrough
	WEB2-D: IEC 61850, Modbus-TCP, HTTP/HTTPPs Webserver, SMTP Email, SNMP, HTTP/HTTPPs Push, FTP Post, sFTP Server, BACnet-IP, Datalogging, Dual Ethernet Ports, EtherNet/IP, MQTT, Google IoT, Modbus Gateway Passthrough
	WEB-PUSH: Modbus-TCP, HTTP/HTTPPs Webserver, SMTP Email, SNMP, HTTP/HTTPPs Push, FTP Post
	PROFI: PROFIBUS
	RS485: Modbus-RTU

Ordering Example:	
	AXM-RS485
	AXM-WEB2-FOLC

I/O Module (Optional)

AXM-IO1	6 Digital Inputs, 2 Relay Outputs, 24Vdc Power Supply
AXM-IO2	4 Digital Inputs, 2 Digital Outputs, 2 Analog Outputs (0~5V or 1~5V, 0~20mA or 4~20mA)
AXM-IO3	4 Digital Inputs, 2 Relay Outputs, 2 Analog Inputs (0~5V or 1~5V, 0~20mA or 4~20mA)

Ordering Example:	
	AXM-IO1
	AXM-IO3

- Note:** 1. Refer to the Communication table and I/O Module table.
2. A maximum of 3 modules may be attached to the meter. If a communication module is used (e.g. AXM-WEB2), it must be installed FIRST before the I/O modules are attached.
3. No more than 2 of the same I/O modules may be attached to the meter (e.g. two AXM-IO2).
4. Module logic numbers and analog types shall be configured from the WEB2 webpage, or Acuvue 2 software before operating.
5. If Acuvim IIW uses DI to trigger a waveform capture, the I/O module logic number must be Module 1.

Accessories (Optional)

REM-DS2:	Remote Display (Only for Acuvim II DIN-Rail Mount "M" option)
AXM-DIN:	DIN Rail Adapter
IP66/NEMA4X:	Environmental Protection Cover
USB-RS485:	USB-to-RS485 Converter



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Specs Subject To Change Without Notice.

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