

Acuvim II Series

Intelligent Power Meter (Web Accessible)



Revenue Grade with DATA-LOGGING



Data-Logging

Acuvim II Test Software Metrics - Acuvim II Logging						
Log Type	1000	Vehicle ID	1000	Update Interval	Realtime	Unit
Log Period	1000	First Record Time Stamp	10/10/10 00:00:00	Last Record Time Stamp	10/10/10 00:00:00	
Record Size	80	Max Record Count	1000	Max Record Time Stamp	10/10/10 00:00:00	
Log	1000	Parameter	Value	Unit	Min	Max
1000	Volt A	227.58	0.00	V	200.00	250.00
1000	Volt B	226.80	0.00	V	203.41	250.00
1000	Volt C	227.85	0.00	V	201.89	250.00
1000	Volt LN Average	227.38	0.00	V	202.29	250.00
1000	Watt A	45873.30	0.00	W	45873.30	VA
1000	Watt B	46153.70	0.00	W	46153.70	VA
1000	Watt C	45980.26	0.00	W	45980.26	VA
1000	Watt Total	137987.26	0.00	W	137987.26	VA
1000	VAR A	0.00	Var	VA	0.00	VA
1000	VAR B	0.00	Var	VA	0.00	VA
1000	VAR C	0.00	Var	VA	0.00	VA
1000	VAR Total	0.00	Var	VA	0.00	VA
1000	P.Factor A	1.000		I.R	0.0000	A
1000	P.Factor B	1.000		Imbalance V	0.0%	Dmd Watt Total
1000	P.Factor C	1.000		Imbalance I	0.0%	Dmd VAR Total
1000					136.05299	VA
1000					136.05299	Var

ACCUENERGY Ethernet Module										
Real-time		Energy and Harmonics		Max and Min #1		Max and Min #2				
Device's Description: Acuvim II										
Meters										
Volt A	227.58	V	Volt AB	384.19	V	I A	201.57	A		
Volt B	226.80	V	Volt BC	385.33	V	I B	203.41	A		
Volt C	227.85	V	Volt CA	384.72	V	I C	201.89	A		
Volt LN Average	227.38	V	Volt LL Average	384.75	V	I Average	202.29	A		
Watt A	45873.30	W	VAR A	0.00	Var	VA A	45873.30	VA		
Watt B	46153.70	W	VAR B	0.00	Var	VA B	46153.70	VA		
Watt C	45980.26	W	VAR C	0.00	Var	VA C	45980.26	VA		
Watt Total	137987.26	W	VAR Total	0.00	Var	VA Total	137987.26	VA		
P.Factor A	1.000		I.R	0.0000	A	Frequency	60.00	Hz		
P.Factor B	1.000		Imbalance V	0.0%		Dmd Watt Total	136.05299	VA		
P.Factor C	1.000		Imbalance I	0.0%		Dmd VAR Total	136.05299	Var		

Max & Min Record

ACCUENERGY Ethernet Module										
Metrics		Kw/Hr and Harmonics		Max and Min #1		Max and Min #2				
Device's Description: Acuvim II										
Alarms										
Volt A	227.58	V	Volt AB	384.19	V	I A	201.57	A		
Volt B	226.80	V	Volt BC	385.33	V	I B	203.41	A		
Volt C	227.85	V	Volt CA	384.72	V	I C	201.89	A		
Volt LN Average	227.38	V	Volt LL Average	384.75	V	I Average	202.29	A		
Watt A	45873.30	W	VAR A	0.00	Var	VA A	45873.30	VA		
Watt B	46153.70	W	VAR B	0.00	Var	VA B	46153.70	VA		
Watt C	45980.26	W	VAR C	0.00	Var	VA C	45980.26	VA		
Watt Total	137987.26	W	VAR Total	0.00	Var	VA Total	137987.26	VA		
P.Factor A	1.000		I.R	0.0000	A	Frequency	60.00	Hz		
P.Factor B	1.000		Imbalance V	0.0%		Dmd Watt Total	136.05299	VA		
P.Factor C	1.000		Imbalance I	0.0%		Dmd VAR Total	136.05299	Var		

Real Time Metering



ISO9001 Certified

ACCUENERGY

DESCRIPTION

The Acuvim II is a high-end multifunction power meter manufactured by Accuenergy. It is the ideal choice for monitoring and controlling of power distribution systems. Some of the features and electric power parameters available on the compact Acuvim II are:

- True-RMS Measuring Parameter
- ANSI C12.20(0.2 Class) and IEC 62053-22(0.2S Class)
- Power Quality Analysis
- Over/Under Limit Alarm
- Multi Communication Ports (Eg: Ethernet, RS485)
- Web Server and Email Sending
- Switch Status Monitoring
- Remote Switch Controlling

- Measure Individual Harmonics from 2nd to 63rd(Acuvim IIR)
- Module Design
- Data-Logging

Acuvim II may be used as a data gathering device for an intelligent Power Distribution System or Plant Automation System. All monitored data is available via a digital RS485 communication port running Modbus®-RTU Protocol. Ethernet and Profibus DP communication are also options and with new wireless technologies and protocols currently under development, the applications for the Acuvim II meter are limitless.

Acuvim II Series Meter

● Function; ⊕ Option; □ Blank NA

CATEGORY	ITEM	PARAMETERS	Acuvim II	Acuvim IIR
METERING	REAL TIME METERING	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	Load Features	●
	Four Quadrant Powers	Four Quadrant Powers	●	●
ENERGY & DEMAND	Energy	Ep_imp,Ep_exp,Ep_total,Ep_net	●	●
	Reactive Energy	Eq_imp,Eq_exp,Eq_total,Eq_net	●	●
	Apparent Energy	Es	●	●
	Demand	Dmd_P,Dmd_Q,Dmd_S,Dmd_I1,Dmd_I2,Dmd_I3	●	●
MONITORING	POWER QUALITY	Voltage Unbalance Factor	U_unbl	●
		Current Unbalance Factor	I_unbl	●
		Voltage THD	THD_V1,THD_V2,THD_V3,THD_Vavg	●
		Current THD	THD_I1,THD_I2,THD_I,THD_lavg	●
		Individual Harmonics	Harmonics 2 nd to 31 st (63 rd for Acuvim IIR)	●
		Voltage Crest Factor	Crest Factor	●
	TIF	THFF	●	●
OTHERS	STATISTICS	Current K factor	K Factor	●
		MAX with Time Stamp MIN with Time Stamp	Each phase of V & I;Total of P, Q, S, PF & F;Demand of P,Q & S;Each phase THD of V & I;Unbalance factor of V & I	●
OTHERS	ALARM	Over/Under Limit Alarm	V,I,P,Q,S,PF,V_THD & I_THD each phase and total or average;Unbalance factor of V & I;load type;Analog Input of each channel	●
	DATA LOGGING	Data Logging 1	F,V1/2/3/lavg,V12/23/13/lavg,I1/2/3/n/avg,P1/2/3/sum,Q1/2/3/sum,S1/2/3/sum,PF1/2/3,PF,U_unbl,I_unbl,Load Type,Ep_imp,Ep_exp,Ep_total,Ep_net,Eq_imp,Eq_exp,Eq_total,Eq_net,Es,THD_V1/2/3/avg,THD_I1/2/3/avg,Harmonics 2nd to 63rd,Crest Factor,THFF,K Factor,sequence and phase angles,DI counter,AI,AO,Dmd P/Q/S,Dmd I1/2/3	
		Data Logging 2		●
		Data Logging 3		
OTHERS	COMMUNICATION	RS485 Port,Half Duplex, Optical Isolated	Modbus®-RTU Protocol	●
	TIME	Real Time Clock	Year, Month, Date, Hour, Minute, Second	●
				●
OPTION MODULE	I/O OPTION	Switch Status (DI)	Digital Input (Wet)	⊕
		Power Supply for DI	24 Vdc	⊕
		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	Ethernet	10M/100M, Modbus-TCP, HTTP Webpage, Email	⊕
		Profibus-DP	Profibus-DP/V0	⊕

I/O Module (Option)

Module Name	Digital Input (DI)	Power Supply For DI (24V)	Digital Output (DO)	Relay Output (RO)	Analog Input (AI)	Analog Output (AO)
AXM-IO1	6	1		2		
AXM-IO2	4		2			2
AXM-IO3	4			2	2	

Communication Module (Option)

Module Name	Spec		
Ethernet	10M/100M self-adaptable, RJ45 Jack HTTP Web page browser	Modbus®-TCP/IP Protocol Email sending on time interval or on event	
Profibus	Profibus-DP/V0 Input Byte (typical): 32 byte Profibus slave mode, baud rate self-adaptable up to 12M	Output Byte (typical): 32 Byte	EN50170 vol.2 compliance
RS485	Modbus®-RTU Protocol		

APPLICATIONS

- Metering of distribution feeders, transformers, generators, capacitor banks and motors
- Medium and low voltage systems
- Commercial, industrial, utility
- Power quality analysis
- Data Logging

FEATURES

Metering

- Voltage V1, V2, V3, Vlavg, 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
- Frequency F
- Power Factor PF1, PF2, PF3, PF
- Energy Ep_imp, Ep_exp, Ep_total, Ep_net
- Reactive Energy Eq_imp, Eq_exp, Eq_total, Eq_net
- Apparent Energy Es
- Demand Dmd_P, Dmd_Q, Dmd_S, Dmd_I1, Dmd_I2, Dmd_I3
- Load Features
- Four Quadrant Powers

Monitoring

- Power Quality
- Voltage Harmonics 2nd to 63rd and THD
- Current Harmonics 2nd to 63rd and THD
- Voltage Crest Factor
- THFF (TIF)
- Current K Factor
- Voltage Unbalance Factor U_unbl
- Current Unbalance Factor I_unbl
- Max/Min Statistics with Time Stamps

TYPICAL WEB PAGE FROM Acuvim II SERIES

Max & Min Record

ACCUVERGY Ethernet Module			
Real-Time	Energy and Harmonics	Max and Min #1	Max and Min #2
Device's Description: Acuvim II.			
Channel	Maximum	Time Stamp	Minimum
Volts AN	442.3 V	2006-10-11 17:30:00	0.0 V
Volts BN	444.1 V	2006-10-11 17:32:00	0.0 V
Volts CN	444.2 V	2006-10-11 17:32:00	0.0 V
Volts AB	754.6 V	2006-11-14 11:48:00	0.0 V
Volts BC	759.7 V	2006-11-15 10:33:00	0.0 V
Volts CA	760.1 V	2006-11-14 18:52:00	0.0 V
I A	11.411 A	2006-11-14 17:58:11	0.000 A
I B	20.736 A	2006-11-13 02:47:00	0.000 A
I C	11.410 A	2006-11-15 18:17:20	0.000 A
Watt Total	11.141 kW	2006-11-15 19:15:29	-1.658 kW
VAR Total	4.326 kVAR	2006-11-15 17:16:00	-3.733 kVAR
VA Total	11.141 kVA	2006-11-15 19:15:21	0.000 kVA
Pwr Factor Total	1.000	2006-10-21 13:22:34	-1.000
2006-10-11 17:30:00 - 2006-11-14 11:41:41			

Alarm Record

ACCUVERGY Ethernet Module			
Real-Time	Energy and Harmonics	Max and Min #1	Max and Min #2
Device's Description: Acuvim II. (Now the newest alarm record is No.1)			
NO.	Limit ID	Status	Alarm Change
NO.1	2006-11-13 09:38:51	1	In
NO.2	2006-11-13 03:59:340	1	Out
NO.3	2006-11-9 13:32:26:262	1	Out
NO.4	2006-11-9 0:11:48:837	1	In
NO.5	2006-11-9 12:59:48	1	Out
NO.6	2006-11-9 0:00:48:965	1	In
NO.7	2006-11-9 12:15:56:94	1	Out
NO.8	2006-11-9 0:22:36:511	1	In
NO.9	2006-11-9 0:22:59:199	1	Out
NO.10	2006-11-9 0:22:56:622	1	In
NO.11	2006-11-9 0:22:56:627	1	Out
NO.12	2006-11-9 0:28:56:913	1	In
NO.13	2006-11-9 0:29:22:880	1	Out
NO.14	2006-10-31 15:37:46:616	2	Out
NO.15	2006-10-31 15:37:46:616	3	Out
NO.16	2006-10-31 15:37:46:616	4	Out
2006-11-13 09:38:51 - 2006-11-15 18:17:20			

Energy & Harmonics

ACCUVERGY Ethernet Module			
Real-Time	Energy and Harmonics	Max and Min #1	Max and Min #2
Device's Description: Acuvim II. (Now energy value is primary)			
Delivered kWh	12.0 kWh	Total Absolute kWh	12.1 kWh
Received kWh	2.1 kWh	Total Net kWh	11.9 kWh
Delivered kVAh	2.4 kVAh	Total Absolute kVAh	5.1 kVAh
Received kVAh	2.7 kVAh	Total Net kVAh	0.9 kVAh
THD Volts AN/A/B	26.39%	THD I A	18.99%
THD Volts BN/B/C	26.39%	THD I B	19.00%
THD Volts CN/C/A	26.66%	THD I C	18.96%
THD Volts average	26.61%	THD Average	18.98%

Alarms

Limits can be set for up to 16 indicated parameters and can be set with a specified time interval. If any input of the indicated parameters is over or under its setting limit and persists over the specified time interval, the event will be recorded with time stamps and trigger the Alarm DO output. The 16 indicated parameters can be selected from any of the 51 parameters available.

I/O option module

The E-module® technique was adopted for its flexibility and easy expansion of the I/O function of Acuvim II. A maximum of 3 modules can be used for one meter. Digital input, digital output, pulse output, relay output, analog input and analog output are provided by I/O option module.

Communication

RS485, Industry standard Modbus® protocol
Module Option: Ethernet module, Profibus-DP module
Dual RS485 communication ports

Display

Clear and large character LCD Screen display with white back light
Wide environmental temperature endurance
Display Load percentage, 4 quadrants power and load nature

Outline

Small Size 96x96 DIN or 4" ANSI Round

Data logging

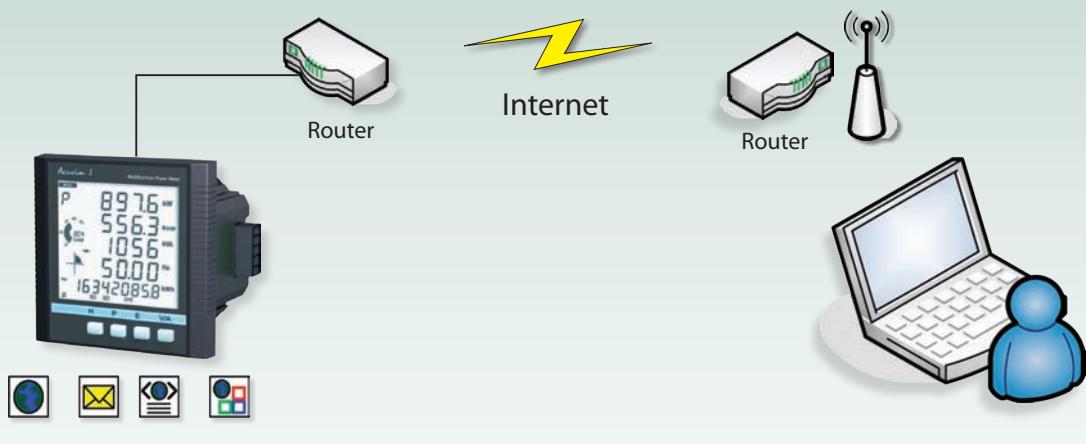
The Acuvim IIR model offers 4MB of onboard data logging memory to be used for historical trending. There are 3 assignable historical logs where the majority of the metering parameters can be recorded. A real time clock allows for any logged events to be accurately time stamped.

DATA LOGGING FROM Acuvim II SERIES

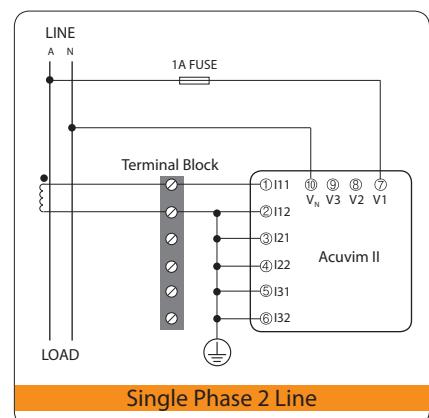
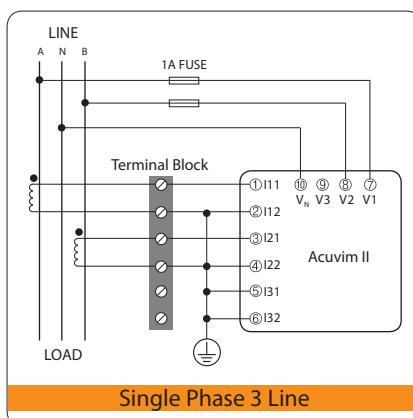
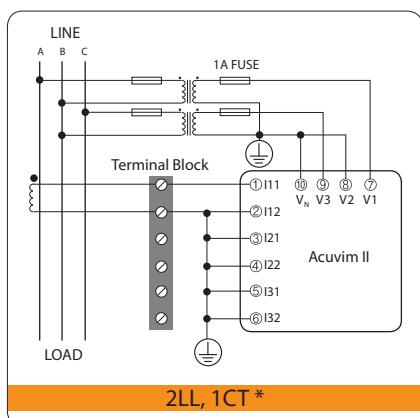
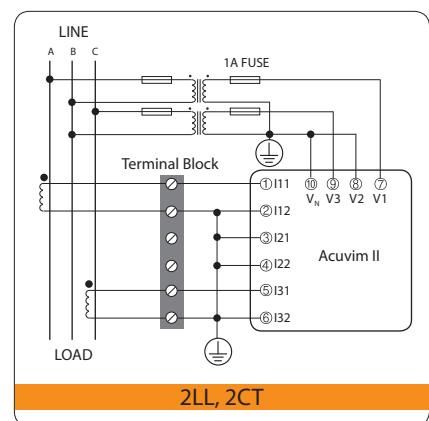
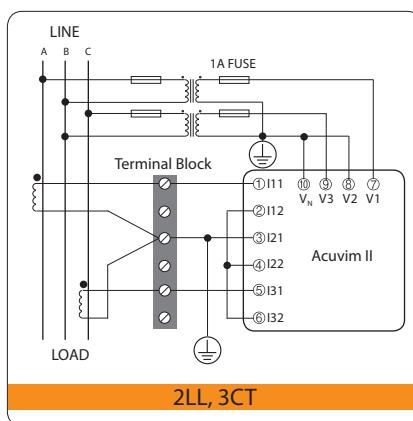
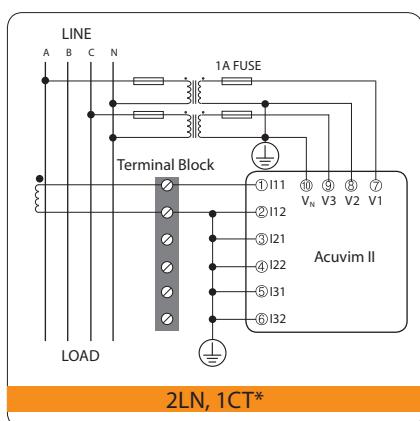
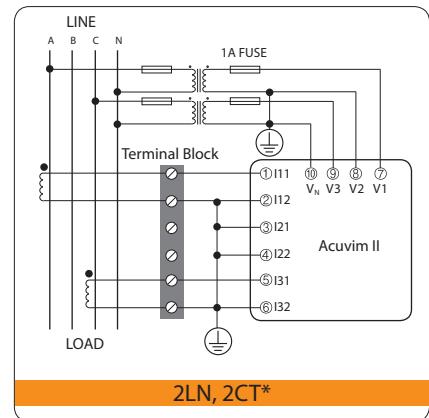
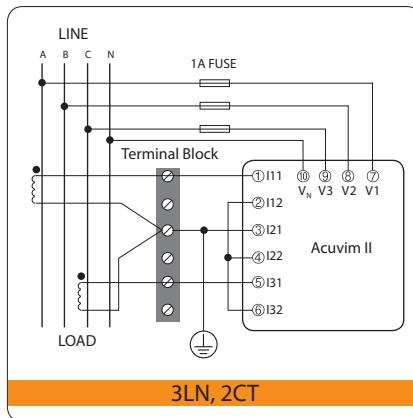
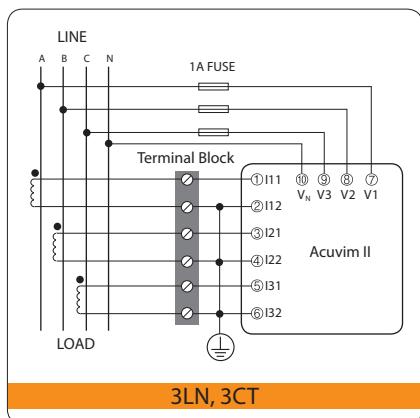
Data Logging

Acuvim II Test Software Monitor - Accuvim Corporation									
Start		Readings		Settings		Http		File	
Log Type	Window Num	Offset	1	Rx	Rz	Q	?	Print	Exit
Max Records	16380								
Used Record	15961								
First Record Time Stamp	10:10:14 05:59:10								
Record Step	40								
Last Record Time Stamp	09:04:22 09:33:10								
Time	Frequencies	Total AH	Volts BN	Volts CH	I A	I B	I C		
10:10:14 05:59:12	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:13	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:14	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:15	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:16	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:17	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:18	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:19	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:20	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:21	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:22	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:23	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:24	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:25	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:26	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:27	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:28	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:29	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:30	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:31	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:32	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:33	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:34	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:35	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:36	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:37	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:38	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:39	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:40	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:41	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:42	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:43	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:44	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:45	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:46	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:47	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:48	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:49	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:50	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:51	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:52	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:53	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:54	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:55	0.000V	0.00V	0.00V	0.00A	0.000A	0.000A	0.000A		
10:10:14 05:59:56	0.000V	0.00V</td							

Acuvim II as Web Server



TYPICAL WIRING

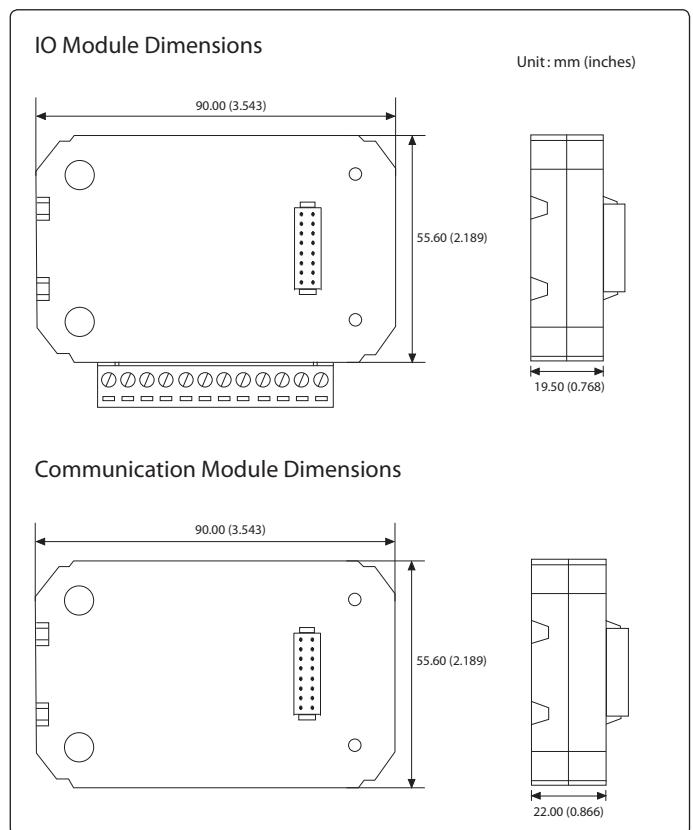
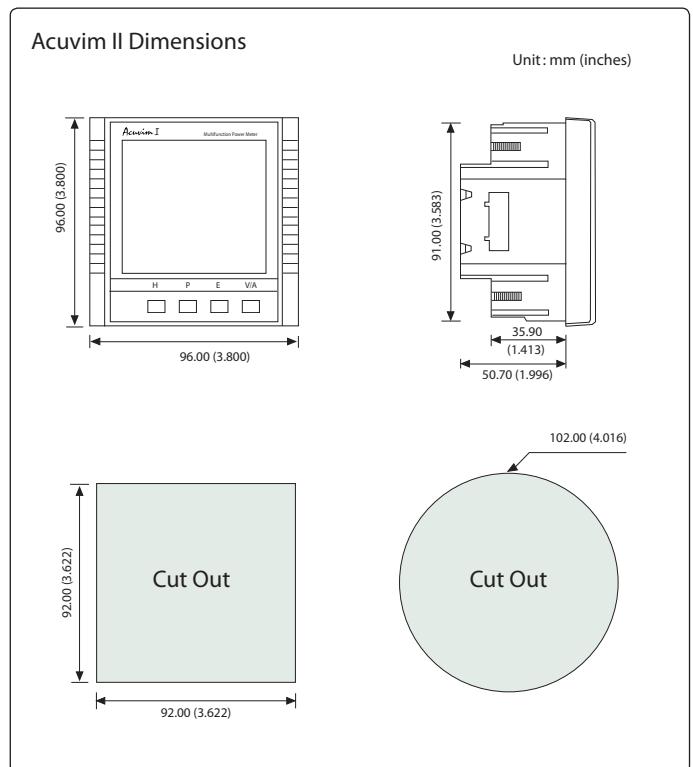


Note: "*" wiring diagram not applicable to Acuvim IIR

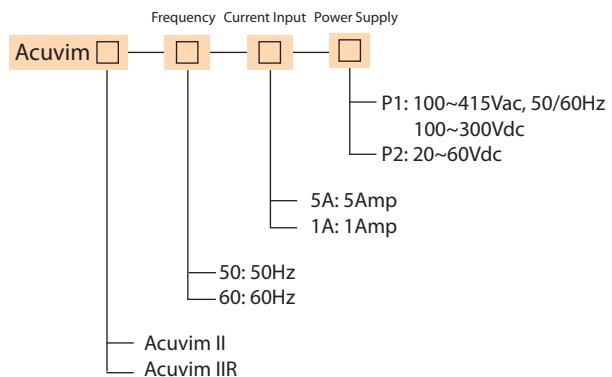
SPECIFICATIONS

METERING				CONTROL POWER				
Parameters	Accuracy		Resolution	Range				
	Acuvim II	Acuvim IIR						
Voltage	0.2%	0.2%	0.1V	20V~1000kV				
Current	0.2%	0.2%	0.1mA	5mA~50000A				
Power	0.5%	0.2%	1W	-9999MW~9999MW				
Reactive Power	0.5%	0.2%	1var	-9999MVar~9999Mvar				
Apparent Power	0.5%	0.2%	1VA	0~9999MVA				
Power Demand	0.5%	0.2%	1W	-9999MW~9999MW				
Reactive Power Demand	0.5%	0.2%	1var	-9999MVar~9999Mvar				
Apparent Power Demand	0.5%	0.2%	1VA	0~9999MVA				
Power Factor	0.5%	0.2%	0.001	-1.000~1.000				
Frequency	0.2%	0.2%	0.01Hz	45.00~65.00Hz				
Energy	Primary	0.5%	0.2%	0.1kWh				
	Secondary	0.5%	0.2%	0.001kWh				
Reactive Energy	Primary	0.5%	0.2%	0.1kvarh				
	Secondary	0.5%	0.2%	0.001kvarh				
Apparent Energy	Primary	0.5%	0.2%	0.1kVAh				
	Secondary	0.5%	0.2%	0.001kVAh				
Harmonics	2.0%	2.0%	0.01%	0.0%~100.0%				
Phase Angle	2.0%	2.0%	0.1°	0.0°~359.0°				
Unbalance Factor	2.0%	2.0%	0.1%	0.0%~100.0%				
Running Time			0.01h	0~9999999.99h				
INPUT								
Current Inputs (Each Channel)								
Nominal Current	5A /1A							
Metering Range	0~10A ac							
Withstand	20Arms continuous, 100Arms for 1 second, non-recurring							
Burden	0.05VA (typical) @ 5Arms							
Pickup Current	0.1% of nominal							
Accuracy	0.2% full scale							
Voltage Inputs (Each Channel)								
Nominal Full Scale	400Vac L-N, 690Vac L-L ($\pm 20\%$)							
Withstand	1500Vac continuous 2500Vac, 50/60Hz for 1 minute							
Input Impedance	2Mohm per phase							
Metering Frequency	45Hz~65Hz							
Pickup Voltage	10Vac (30Vac for Acuvim IIR)							
Accuracy	0.2% full scale							
Energy Accuracy (Acuvim IIR)								
Active (according to IEC 62053-22) (according to ANSI C12.20)	Class 0.2S							
Reactive (according to IEC 62053-23)	Class 0.2							
Harmonic Resolution								
Metered Value	Acuvim II: 31st harmonic Acuvim IIR: 63rd harmonic							
COMMUNICATION								
RS-485 (Standard)								
MODBUS RTU Protocol								
2-wire connection								
Up to 38400 baud rate								
Ethernet (Optional)								
10M/100M BaseT								
MODBUS® TCP/IP Protocol								
Data Browsing through HTTP								
Sending e-mail automatically								
PROFI-BUS (Optional)								
PROFIBUS-DP/V0 Protocol								
Work as PROFIBUS slave, baud rate adaptive, up to 12M								
Typical input bytes: 32, typical output bytes: 32								
PROFIBUS standard according to EN 50170 vol.2								
OPERATING ENVIRONMENT								
Operation Temperature	- 25°C to 70°C							
Storage Temperature	- 40°C to 85°C							
Relative Humidity	5% to 95% non-condensing							
Pollution Degree	2							
STANDARD COMPLIANCE								
Measurement Standard	IEC 62053-22; ANSI C12.20							
Environmental Standard	IEC 60068-2							
Safety Standard	IEC 61010-1, UL 61010-1							
EMC Standard	IEC 61000-4/-2/-3/-4/-5/-6/-8/-11, CISPR 22							
Outlines Standard	DIN 43700, ANSI C39.1							

DIMENSIONS

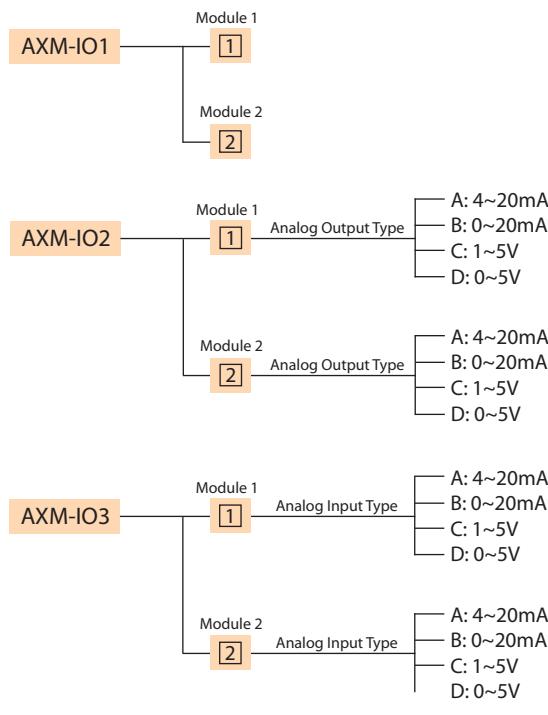


ORDERING INFORMATION



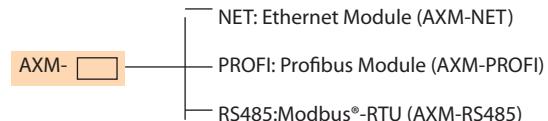
Acuvim II Base Meter Ordering Example: Acuvim IIR - 60 - 5A - P1

I/O Option module



IO Module Ordering Example: AXM-IO2-1A

Communication Option Module



- Note:**
- No more than 2 of the same I/O modules may be attached to the meter (example: Two AXM-IO2). The same two IO modules must be a different component number.
 - A maximum of 3 modules may be attached to the meter. If a communication module is used (example: AXM-NET), it must be installed on the back of the meter FIRST before the other module are attached.