

## Accuenergy Power Meters

- Revenue Grade Metering
- 5 Function Display
- Power Quality Analysis
- Over/Under Limit Alarm
- Data-Logging (Acuvim IIR)
- Web Server & Email Enabled
- Remote Switch Control
- Analog & Digital I/O Options
- 92x92 DIN or 4" ANSI Round Mounting



**Acuvim II** ▲ CE cUL US LISTED

The Acuvim II is a high-end multifunction power meter for monitoring and controlling power distribution systems. Plug-in modules expand the I/O capabilities. Alarms can be set for up to 16 parameters, selected from the 51 available. RS485 Modbus communication is standard, Ethernet is optional. The Acuvim IIR has 4M of onboard memory for datalogging in 3 assignable historical logs.

### Measured Parameters:

- Phase Voltage V1, V2, V3, Vlnav
- Line Voltage V12, V23, V31, Vllav
- Current I1, I2, I3, In, Iavg
- 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
- Harmonics 2nd-31st\* & THD (V & I)
- Voltage Crest Factor
- THFF (TIF)
- Current K Factor
- Unbalance & Unbalance Factor (V & I)
- Max/Min Statistics with time stamps for 28 parameters
- Running Hours and Real Time Clock \*up to 63rd harmonic on Acuvim IIR

Parameter	Accuracy		Resolution	Range
	Acuvim II	Acuvim IIR		
Voltage	0.2%	0.2%	0.1V	20V~500kV
Current	0.2%	0.2%	0.001A	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	0-99999999.9kWh
Energy, Secondary	0.5%	0.2%	0.001kWh	0-999999.999kWh
Reactive Energy, Primary	0.5%	0.2%	0.1kvarh	0-99999999.9kvarh
Reactive Energy, Sec.	0.5%	0.2%	0.001kvarh	0-999999.999kvarh
Apparent Energy, Primary	0.5%	0.2%	0.1kVAh	0-99999999.9kVAh
Apparent Energy, Sec.	0.5%	0.2%	0.001kVAh	0-999999.999kVAh
Harmonics	2.0%	2.0%	0.1%	0.0%~100.0%
Phase Angle	2.0%	2.0%	0.1°	0.0°~359.9°
Unbalance Factor	2.0%	2.0%	0.1%	0.0%~100.0%
Running Time			0.01h	0~9999999.9h

### COMMON SPECIFICATIONS

System Configurations:	3LN/3CT, 3LN/2CT, 2LN/2CT*, 2LN/1CT*, 2LL/3CT, 2LL/2CT, 2LL/1CT*, 1Ø/3Line, 1Ø/2Line
Voltage Input:	400 VAC L-N, 690 VAC L-L full scale, 45-65 Hz
Withstand:	1500 VAC continuous, 3250 VAC for 1 minute
Input Z:	2 Mohm per phase
Current Input:	1 or 5 A nominal, 0-6A metering range
Withstand:	20 Arms continuous, 100A for 1 sec.
Burden:	0.05 VA typical @ 5 Arms
Display:	LCD with white backlight
Temperature:	-25 to 70 °C operating, <95% RH (non-condensing)
Environment:	Pollution degree 2
Dimensions:	3.8" H x 3.8" W x 2.0" D (96x96x51mm)

\*not on Acuvim IIR or Acuvim-EL

- Multifunction TRMS Meter
- 4 Quadrant Energy
- Power Quality Analysis
- Demand
- Over/Under Limit Alarm
- Wide Temperature Range
- RS485 Modbus Option
- 92x92 DIN or 4" ANSI Round Mounting



**Acuvim-L** ▲ CE cUL US LISTED

### Measured Parameters:

- Voltage V1, V2, V3, V12, V23, V31
- Current I1, I2, I3, In
- Power P1, P2, P3, Psum
- Reactive Power Q1, Q2, Q3, Qsum
- Apparent Power Ssum
- Frequency F
- Power Factor PF1, PF2, PF3, PF
- Energy Ep\_imp, Ep\_exp
- Reactive Energy Eq\_imp, Eq\_exp
- Demand Dmd\_I1, Dmd\_I2, Dmd\_I3, Dmd\_P, Dmd\_qInput
- Harmonics 2nd-15th & THD (V & I)
- Unbalance (V & I)
- Max/Min (V & I) with time stamps
- Max Demand (I & P)
- Running Hours

Parameter	Accuracy		Resolution	Range
	Acuvim-L	Acuvim-EL		
Voltage	0.5%	0.5%	0.1V	20V~500kV
Current	0.5%	0.5%	0.02%	0~50000A
Current Demand	0.5%	0.5%	0.02%	0~50000A
Power	1.0%	0.5%	0.1%	-4294MW~4294MW
Reactive Power	1.0%	0.5%	0.1%	-4294MVar~4294MVar
Apparent Power	1.0%	0.5%	0.1%	0~4294MVA
Power Demand	1.0%	0.5%	0.1%	0~4294MW
Reactive Power Demand	1.0%	0.5%	0.1%	0~4294MVar
Apparent Power Demand	1.0%	0.5%	0.1%	0~4294MVA
Power Factor	1.0%	0.5%	0.1%	-1.0~1.0
Frequency	0.2%	0.2%	0.01Hz	45~65Hz
Energy	1.0%	0.5%	0.1kWh	0~99999999.9kWh
Reactive Energy	1.0%	0.5%	0.1kvarh	0~99999999.9kvarh
Apparent Energy	1.0%	0.5%	0.1VAh	0~99999999.9kVAh
Harmonics	2.0%	--	0.1%	0~100.0%
Running Time			0.1h	0~9999999.9h

### ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.  
Order Example: Acuvim-EL-D-60-5A-P1

Acuvim—  —  —  —

<b>A</b> Model	II-D Acuvim II
	IIR-D Acuvim II with Datalogging
	AL-D Acuvim L
	BL-D Acuvim L with Energy Pulse & Alarm Outputs
	CL-D Acuvim L with RS485 Modbus Comm (half-duplex)
	EL-D Acuvim L with Time of Use & RS485 Modbus Comm

<b>B</b> Frequency	50 50 Hz
	60 60 Hz

<b>C</b> Current Input	5A 5 Amp
	1A 1 Amp

<b>D</b> Power Supply	P1 100-415 VAC, 50-60 Hz; 100-300 VDC, 3 W
	P2 20-60 VDC, 3 W

### Plug-In Options for Acuvim II: (select up to 3)

DI	Four Digital Input (wet) 20-220V AC/DC, 2mA max.
RO	Two Form A Relay Out 250VAC/30VDC, 5A res., 2A inductive
DO	Two Isolated Digital Out 0-250V AC/DC, 100mA, photo-MOS
AO	Two Analog Out specify 0-5V, 1-5V, 0-20mA, 4-20mA (15V max)
AI	Two Analog In specify 0-5V, 1-5V, 0-20mA, 4-20mA
NET	Ethernet Communications 10/100M Modbus TCP/IP