

AccuEnergy Acuvim-AL-D-5A-P1 Multifunction LCD Power Meter, 100-415VAC, 50-60Hz, 100-300VDC



Model: Acuvim-AL-D-5A-P1

The AccuEnergy Acuvim L three-phase multifunction energy meter is ideal for power distribution and energy management applications. This model includes a 60Hz basic unit without communication, standard mount with LCD display, 5Amp current, and a 100~415Vac, 50~60Hz, 100~300Vdc power supply. The Acuvim L features TRMS measurements, power quality analysis, and 4 quadrant energy. The Acuvim L satisfies the demands of medium and low voltage systems for commercial, industrial, and utility uses.

Brand:	AccuEnergy
Model:	Acuvim-AL-D-5A-P1
Order No:	Acuvim-AL-D-5A-P1
Condition:	NEW

Description

ACCUENERGY ACUVIM-AL-D-60-5A-P1 Multifunction LCD Power Meter 100~415Vac, 50~60Hz, 100~300Vdc

The AccuEnergy Acuvim L three-phase multifunction power and energy meter offers you reliability, with features like True-RMS measuring parameters and ANSI and IEC 0,2 Accuracy class. This model includes a 60Hz basic unit without communication, standard mount with LCD display, 5Amp current, and a 100~415Vac, 50~60Hz, 100~300Vdc power supply. With the Modbus TRU protocol, monitored data is easily accessible via a standard RS485 communication port. This energy meter also features 4 Quadrant Energy, Power Quality analysis, and Time of Use data. The Acuvim L is ideal for the metering of distribution feeder, generators, motors, transformers, and more: perfect for use with medium and low voltage systems in a variety of commercial, industrial, and utility applications.

Features:

- True-RMS measuring Parameters
- ANSI and IEC 0.2 Accuracy class
- Power Quality Analysis
- 4 Quadrant Energy
- Measure Individual Harmonics from 2nd to 15th (Acuvim-AL/BL/CL/DL)
- Module Design (Acuvim-DL/EL)
- TOU, 4 Tariffs, 12 Seasons, 14 Schedules (Acuvim-EL)
- Class leading Warranty

Applications:

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

Specifications

ACCUENERGY ACUVIM-AL-D-60-5A-P1 Multifunction LCD Power Meter Specifications

Metering

Parameters	Acuvim-L Accuracy	Acuvim-EL/KL Accuracy	Resolution	Range
Voltage	0.5%	0.5%	0.1V	20V~1000kV
Current	0.5%	0.5%	0.001A	0~50000A
Current Demand	0.5%	0.5%	0.001A	0~50000A
Power	1.0%	0.5%	1W	-9999MW~9999MW
Reactive Power	2.0%	0.5%	1var	-9999Mvar~9999Mvar
Apparent Power	1.0%	0.5%	0.001V	0~9999MVA
Power Demand	1.0%	0.5%	1W	-9999MW~9999MW
Reactive Power Demand	2.0%	0.5%	1var	-9999Mvar~9999Mvar
Apparent Power Demand	1.0%	1VA	1VA	0~9999MVA
Power Factor	1.0%	0.5%	0.001	-1.0~1.0
Frequency	0.2%	0.2%	0.01Hz	45.00~65.00Hz
Energy	0.5%	0.5%	0.1kWh	0~99999999.9kWh
Reactive Energy	2.0%	0.5%	0.1kvarh	0~99999999.9kvarh
Apparent Energy	1.0%	0.5%	0.1VAh	0~99999999.9kVAh
Harmonics	2.0%	-	0.01%	0~100.0%
Running Time			0.1hrs	0~9999999999.9hrs

Communication

RS-485 (Option)

Modbus-RTU Protocol

2-wire connection, Half-duplex, Isolated

1200 to 38400 baud rate

Input

Current Inputs (Each Channel)		
Nominal Current	5 A ac	
Metering Range	0~6 A ac	
Withstand	20Arms continuous100Arms for 1 second, non-recurring	
Burden	0.05VA (typical) @5Arms	
Pickup Current	10Vac	
Accuracy	0.5%	
Voltage Inputs (Each Channel)		
Nominal Full Scale	400Vac L-N, 690Vac L-L (+20%)	
Withstand	1500Vac continuous2500Vac, 50/60Hz for 1minute	
Input Impedance	45Hz~65Hz	
Pickup Voltage	10Vac	
Accuracy	0.5%	
Energy Accuracy (Acuvim-EL)		
Active	(according to IEC 62053-22) Class 0.5s(according to ANSI C12.20) Class 0.5	
Reactive	(according to IEC 62053-23) Class 2	
Harmonic Resolution		
Motorod Value	and a 15th hormonics (THD of Acutin DL is and to 25th)	

2nd ~ 15th harmonics(THD of Acuvim-DL is 2nd to 25th)

Control Power

Universal	AC or DC	
AC/DC Control Power		
Operating Range	100~415Vac, 50/60Hz, 100~300Vdc	
Burden	3W	
Withstand	3250Vac, 50/60Hz for 1 minute	
Low Voltage DC Control Power (Optional)		
Operating Range	20~60Vdx	
Burden	3W	

Digital Output Option

Digital Output (DO)	(Photo-MOS)
Voltage Range	0~250Vac/dc
Load Current	100mA (Max)
Output Frequency	25Hz, 50% Duty Ratio
Isolation Voltage	2500V

Digital Input Option

20~250Vac/dc
2mA
15V
5V
100Hz, 50% Duty Ratio
2ms

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

Product		
USA	UL 61010-1	
Canada	cUL 61010-1	
Europe	IEC 61010-1	
Emission		
Radiated/Conducted	FCC Part 15 Subpart B, Class A	
Radiated/Conducted	EN 55011	
Harmonic	IEC 61000-3-2	
Voltage Fluctuation	IEC 50081-2	
Radio Interference	IEC 50081-2	
	Immunity	

ESD	IEC 61000-4-2
Radiated, radio-frequency, electromagnetic field	IEC 61000-4-3
Electrical fast transient/bust	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted disturbances	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11
Generic Immunity Standard for Industrial Environment	EN 50082-2