

Accuenergy AcuDC Meter



PRODUCT DESCRIPTION

The impressive AcuDC 240 Series is a line of DC power meters specifically designed to measure voltage, current, power and energy parameters. This line is used for monitoring and controlling energy flow in DC systems. Whether part of small or large installations, the Accuenergy AcuDC meter should be part of your solution. Monitoring solutions for solar PV energy generation, wind turbine power generation, transport systems, cell towers, power distribution in data centers, IT networks and other DC applications

PRODUCT DETAILS



Datalogging
(4MB Storage & adjustable intervals)



Time of Use Monitoring
(sharp, peak, valley and normal)



Accessible with SCADA, PLC systems



Flexible Current Input
(via Shunt and Hall Sensors)



Set Alarms
(Adjustable parameters)



I/O Modules
(Expansion Digital/Analog input modules)

APPLICATIONS



Solar & Battery Management



Facilities Management



Power & Energy Management



Fuel & Liquid Management

BENEFITS

- DC power system metering to monitor and control power switches
- Easy installation, simple wiring
- 3 assignable logs where all metering parameters can be recorded
- Expandable plug-in modules for DI, AO, RO
- Panel mount meter with digital display
- Purchase requires Optionality. Please contact us with questions

Accuenergy AcuDC Meter – Technical Details

METER SPECIFICATIONS

Parameter	Accuracy	Resolution	Range
Voltage	0.002	0.001V	0~1200V
Current	0.002	0.001A	0~±50000A
Power*	0.005	0.001kW	0~±60000kW
Energy*	0.005	0.01kWh	0~9999999.99kWh
Drift with Temperature	<100ppm / C		
Stability	0.5% / year		

* 0.2% accuracy on Power and Energy available upon request

VOLTAGE

Input Range	Voltage	Direct Input 0~1000V; Via Hall Effect Sensor 0~1200V
	Input Impedance	2MΩ
	Load	<0.6W
	Accuracy	0.2%
Current	Input Range	0~±10A(Direct Input, pick up current 0.01A) 0~±50,000A(via Shunt or Hall Effect Sensor)
	Shunt	50~100mV(programmable)
	Hall Effect Sensor	0~±5V/0~±4V, 4~20mA/12mA±8mA
	Power Consumption	2W(Max)
Digital Input	Accuracy	0.2%
	Type	Dry Contact
	Isolation Voltage	2500Vac

COMMUNICATION

Modules	Type	RS485, half duplex, Optical Isolated
	Protocol	Modbus-RTU
	Baud rate	1200~38400bps
	Isolation Voltage	2500Vac

OUTPUTS

Relay Output (RO)	Type	Mechanical contact, Form A
	Max Load Voltage	250Vac/30Vdc
	Max Load Current	3A
Digital Output (Photo-Mos)	On Resistance	100mΩ (Max)
	Isolation Voltage	4000Vac
	Mechanical Life	5 x 10 ⁶ times
	Load Voltage Range	0~250Vac/dc
	Load Current	100mA(Max)
	Max Output Frequency	25Hz, 50% duty cycle
Analog Output (AO)	Isolation Voltage	2500Vac
	Range	4~20mA/0~20mA; 0~5V/1~5V
	Accuracy	0.5%
Load Capacity	Current type, max load resistance:	750 Ohm
	Voltage type, max load current:	20 mA

POWER SUPPLY / CONSUMPTION

Input	(P1)100-240Vac, 50/60Hz, 100-300Vdc (P2) 20-60Vdc
Consumption	3W (typical value)