

AcuRev 1300 Series

Rail-mounted Three phase Energy Meter



ISO9001 Certified



DESCRIPTION

AcuRev 1300 series rail-mounted three phase energy Meters has a small size and high accuracy, can access to 80A current directly, it is ideal for use in distributor and tight spaces. The meter is equipped with an easy to read liquid crystal display (LCD) which displays all the important information. It is ideal for building energy management systems, energy monitoring and energy metering systems.

APPLICATIONS

- Commercial Complex/Mall
- Apartment/Condominiums
- Hospitals/Public Services
- Hotels/Office Buildings
- Tenant Submetering/Billing
- Data Centers
- LEED Projects
- Energy Management Systems
- Industrial and Utilities Applications

FEATURES

- Comply to IEC62053-22 classes 0.5S Measurement Standard
- Small size, DIN rail mounting
- Direct metering up 80A
- Support active / reactive energy pulse output
- Support multi-rate features: 4 rates, real-time clock
- 7 digits backlit LCD display
- Facilitate communication, RS485 interface, infrared interface; MODBUS-RTU protocol
- Easy to install, easy to meter reading, less set, easy maintenance and replacement (separate base and header design)

AcuRev 1300 Meter

	FUNCTION	PARAMETER	AcuRev 1301	AcuRev 1302	AcuRev 1303	AcuRev 1304
ENERGY	Energy	Combination active energy, Ep_imp, Ep_exp	●	●	●	●
	Reactive Energy	Combination reactive energy Four-quadrant reactive energy			●	●
	Apparent Energy	Es_imp, Es_exp			●	●
TOU	4 Tarrifs			●	●	
POWER DEMAND	Power Demand	Dmd_P, Dmd_Q, Dmd_S			●	●
	Peak Power Demand	Dmd_P_max, Dmd_Q_max, Dmd_S_max			●	●
CURRENT DEMAND	Current Demand	Dmd_I1, Dmd_I2, Dmd_I3			●	●
	Peak Current Demand	Dmd_I1_max, Dmd_I2_max, Dmd_I3_max			●	●
REAL TIME METERING	Phase Voltage or Line Voltage	V1, V2, V3; V12, V23, V31		●	●	●
	Current	I1, I2, I3		●	●	●
	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		●	●	●
TIME	Year, Month, Date, Hour, Minute, Second			●	●	
COMMUNICATION PORT	Non-contact infrared		●	●	●	●
	RS-485			⊙	⊙	⊙
COMMUNICATION PROTOCOL	Modbus-RTU			⊙	⊙	
ENERGY PULSE OUTPUT	kWh/kvarh Output		●	●	●	●
DISPLAY	LCD Display		●	●	●	●
TREND RECORDS	Electrical parameters					●

● Function ⊙ Option Blank NA

SPECIFICATIONS

METERING			
Parameter	Accuracy	Resolution	Range
kWh	0.5%	0.1kWh	0-999999.9
kvar	0.5%	0.1kvar	0-999999.9
kVAh	0.5%	0.1kVAh	0-999999.9
V	0.5%	0.1V	175.0V-265.0V
I	0.5%	0.001A	100mA-80A
P	0.5%	0.1W	-80-80kW
Q	0.5%	0.1var	-80-80kvar
S	0.5%	0.1VA	-80-80kVA
PF	0.5%	0.001	-1.000-1.000
Freq	0.2%	0.01Hz	50/60
Active power Demand	0.5%	0.1W/var/VA	80kW/kvar/KVA
Current Demand	0.5%	0.001A	80A

Voltage	
Reference Voltage	220Vac L-N, 380Vac L-L
Operation Voltage Range	80%-120%Vn
Operation Frequency	50/60Hz

Current	
Reference Current In	10A
Maximum Current	80A
Starting Current	0.001In

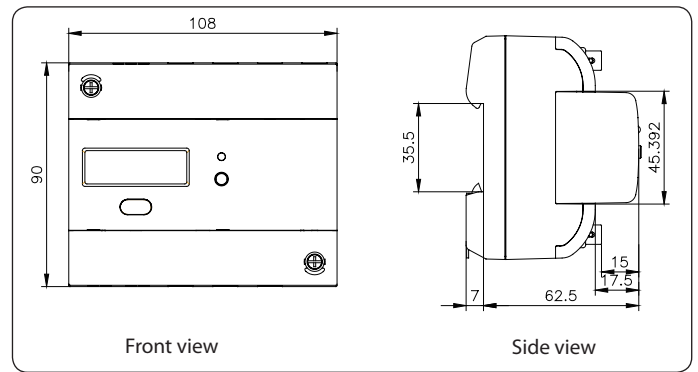
Power (Taken from the voltage loop)	
Supply Voltage	Taken from the voltage loop
Burden	<2W or <10VA

Operating Environment	
Operation temperature	-25-70°C
Storage temperature	-40-85°C
Humidity	The annual average humidity of 85%, a year can have 30 to 95%

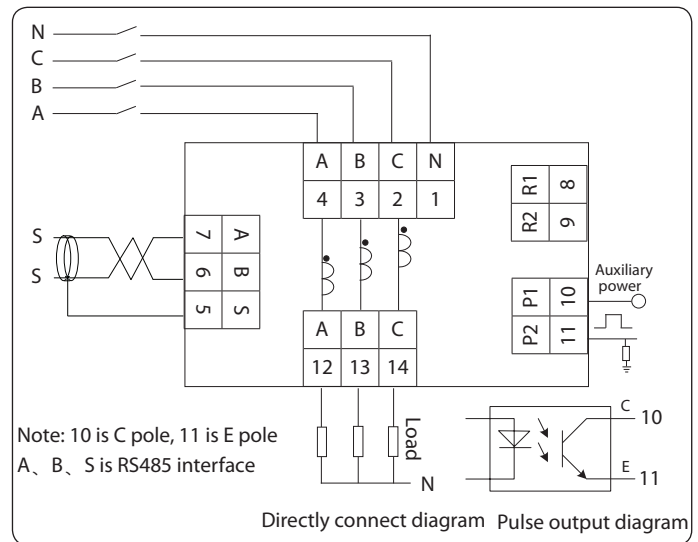
Pulse Output	
Isolation Voltage	2500Vac
External loop voltage	5-60V
Maximum Current	10mA
Pulse Width (high)	100ms
Pulse Constant	200 imp/kWh

Communication	
RS485 interface rate	1200-38400bps
Communication protocol	MODBUS-RTU
IR interface	Non-contact Far-infrared
IR rate	1200bps

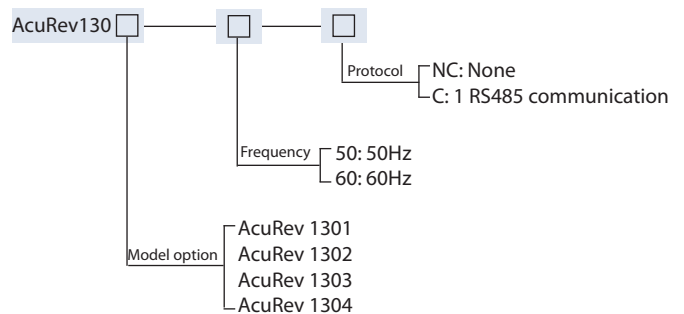
DIMENSIONS



TYPICAL WIRING



ORDERING INFORMATION



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