Netonomy

Product Deep-dive

Accuenergy AcuRev 2100 Energy Meter

PRODUCT DESCRIPTION

Accuenergy AcuRev 2100 is the next generation multi-circuit sub-meter designed to measure up to 18 single-phase or 6 three-phase circuits using Snap-On CT technology for quick and easy installations in high-density, multi-point applications. Reliably monitor real-time energy consumption and perform power quality analysis in commercial, industrial, and residential multi-tenant energy management systems

PRODUCT DETAILS

- Measure 18 single & 6 three phase circuits simultaneously
- Built-in data logging (8GB Storage & Adjustable)
- 18 Digital Inputs for water and gas metering
- Simple installation with Snap-On CT technology
- Programming and terminal tamper-proof seal
- Built-in WEB2 module (Communication IO)

APPLICATIONS

- Facilities Management
- Power & Energy Management
- Branch Circuit Monitoring
- Panel Metering

BENEFITS

- Wide Connectivity options Modbus-RTU via RS485, ModbusTCP, BACnet IP, SNMP and data post via Ethernet and Wi-Fi and I/O to provide for extensive reliable and interoperable data communications.
- Real-time metering, measures energy consumption, multi-tariff time-of-use (TOU) and monitors power quality
- Ease of installation and maintenance with Snap-On CT technology

Purchase on Online at https://netonomy.com.au/product/acurev-2100 | **Contact** us at sales@netonomy.com.au for more information

Accuenergy AcuRev 2100 Energy Meter – Technical Details

METERING

Parameter	Accuracy	Resolution	Range
Active Energy	0.5s	0.1kWh	0~99999999.9kWh
Reactive Energy	0.50%	0.1kvarh	0~99999999.9kvarh
Apparent Energy	0.50%	0.1kVAh	0~99999999.9kVAh
Voltage	0.50%	0.1V	10~400V
Current	0.50%	0.001A	5mA~10,000A
Real Power	0.50%	0.1W	4000.0kW
Reactive Power	0.50%	0.1var	4000.0kvar
Apparent Power	0.50%	0.1VA	4000.0kVA
Power Factor	0.50%	0.001	-1.000~1.000
Frequency	0.20%	0.01Hz	45~65Hz
Real Power Demand	0.50%	0.1W	4000.0kW
Reactive Power Demand	0.50%	0.1var	4000.0kvar
Apparent Power Demand	0.50%	0.1VA	4000.0kVA
Current Demand	0.50%	0.001A	5mA~10,000A
Unbalance	1%	0.01%	0~300%
Harmonics	1%	0.01%	0~100%
Meter Running Time	0.01hour	0~999999.9	hours
Temperature Drift	less	than	100ppm/℃(0-50℃)

INPUT

Voltage Input	Nominal Full Scale	400Vac L-N, 690Vac L-L
	Input Impedance	2M/per phase
	Metering Frequency	45Hz~65Hz
	PT Burden	<0.2VA
Current Inputs	Nominal Current	80mA, 100mA, 333mV

DIGITAL OUTPUT

External Circuit Voltage	5-30Vdc
Output Current (MAX)	5-50mA
Pulse Width (High)	20-100ms, Programmable
Pulse Constant	1-60000imp/kWh, Programmable

IO SPECIFICATIONS

Digit Input (DI)	Input Style	Dry Node
	Input Current (Max)	2mA
	Pulse Frequency (Max)	100Hz, 50% Duty Cycle
	SOE Resolution	2ms
Auxiliary Power of DI (15V)	Output Voltage	15Vdc
	Rated Power	1W
Relay Output (RO)	Load Voltage Range	250Vac, 30Vdc
	Load Current	3A
	Opening Time	10ms (Max)
	Conduction Impedance	100m (Max)
	Isolation Voltage	4,000Vac
	Mechanical Life	5,000,000 times
Communication with WEB2 Module	RS485 Baud Rate	1200-38400bps
	Protocol	Modbus-RTU Modbus-TCP/IP, BACnet-IP, SNMP SNTP, SMTP MQTT, HTTP/HTTPs Post, FTP, RSTP IPv6

POWER SUPPLY

Power Supply	Vac 100~415Vac,50~60Hz; Vdc 100-300Vdc
Power Consumption	5W