Yesterday's Maximum is Today's Minimum!



APM/APR

AMI - DIN RAIL LOAD CONTROL DEVICES

The APM/APR DIN Rail units are used as appliance (load) control devices. The units are a part of JnJ Powercom AMI solution, allowing the Utilities or the customers to control the major appliances at the customer premises (as Geyser, swimming pool pump, etc.). The units are activated by the master AMI system (through the "Smart Meter" or by serial control interface). The APM/APR units include internal relay (16A-60A), serial communication interface (RS485) and Radio Frequency. The APM unit includes metering capability offering information as Energy consumption, Voltage, Current, PF. A real time clock (RTC) enables scheduled connect/disconnect functionality. The APM/APR are perfect for use of "Smart Home Applications" and Industrial control application.

FEATURES

- Single Phase and Poly Phase connection.
- Fully featured IEC standard, Certified to IEC 62052-11, 62053-11, Class 2, for active energy
- Measures active energy, RMS voltage, RMS current, power factor, Frequency
- TOU with 4 tariffs and 8 customer billing cycles
- Two step tariffs can be activated over a designated time (upon time or consumption)
- Integrated Load Switch (16-60Amp)
- Load disconnection when configurable power thresholds are exceeded
- Event log with circular memory buffer
- Anti-tamper protection (terminal cover lock)
- Large-character LCD manual and auto-scrolling display(Optional)
- Supports display and IR reading during power outage (Optional)
- Hardware and software security protection
- Includes RS485 and RF (optional) communications
- Digital Input and output for event reading and additional control functionality
- Remote Firmware upgrade through communication
- Supports both Prepayment and Credit modes by remote configuration.
- Multi current thresholds: Imax(Protects the utility circuit breakers), Icritical(in power shortage will limit consumption), and Idebt (limit when the customer has existing debt)
- Long life time of 15 years



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SPECIFICATIONS

Voltage Range	0.7 1.3Un
Nominal frequency	50Hz ±5%
Reference Voltage Un	230V/400V +/- 20%
Connection Voltage	One phase and poly phase connection
Power Consumption	
Accuracy	Active class 2 to IEC 62053-11, 62053-21, 62053-22, 62053-23
Real time clock	<0.5s/d with temperature compensation function
Temperature Range	
Specified operate range	-40 ° to +85 °
Limit range of operation	-40 ° to +85 °
Storage and transport	-40 ° to 85 °
Humidity	6kV with 1.2/50us to IEC62052-11
Voltage impulse strength	6kV with 1.2/50us to IEC62052-11
Insulation strength	4kV at 50Hz for 1 minute
EMC	To IEC 61000-4
Radio interference	To IEC/CISPR 11, Class A equipment
Protection class	IP 54 (IEC 529) Indoor use
Disconnect switch	16A-60A, local and remote control
Display (Optional)	Large LCD with backlight, display at outage
Output/Input interferences	
Digital Input/ Output	Two digital isolated outputs and two inputs
Measurement function	
• Energy (kWh)	Active Energy
Power quality	voltage, current, PF and Frequency (optional)
• Event Log	Records with date/time stamp
 Programming, RTC time synchronization, Outage, load switch on/off, Max. Current, Max. Voltage 	Records 10 most recent logs of each event with a time stamps
• Power fail	Disconnecting the load in case the supply voltage drops under 70% or if the Current is less than 5% In
Firmware Upgrade	Remote firmware upgrade through communication
Renewable Energy special Tariff	Separate tariff setting (import and export) for energy metering when renewable energy is used (PV, wind Energy etc.)
Unit Life Time	At least 15 years

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