

Joymeter



Make It Easy



JOY311
Three Phase Prepaid Electricity Meter



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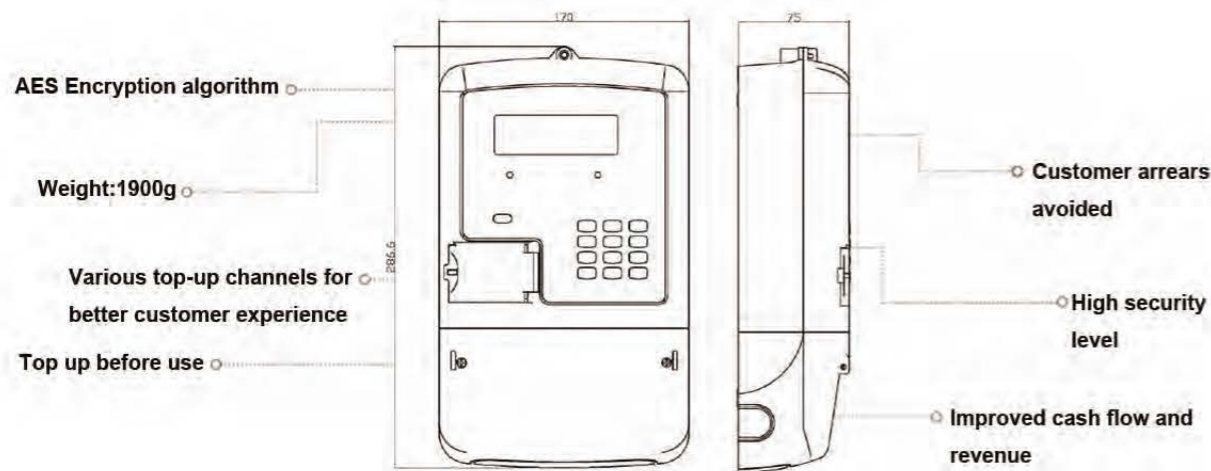
DESCRIPTION

JOY311 provides integrated/split solution for kWh measurement and prepayment. It is suitable for residential, commercial and light industrial environments. Credit and management data is transferred from a point of sales (POS) to the meter via a 20-digit numeric token which is generated using the Standard Transfer Specification (STS) encryption protocol and entered into meter via a keypad.

The meter (integrated) or CIU(split) can be installed inside the home making it accessible for the consumer to enter in a credit token.

FEATURES

- ▶ Adjustable audio and visual low credit warning level
- ▶ Reliable three in one relay in controlling the power supply
- ▶ Significant Reverse Energy (SRE) detection
- ▶ Magnetic interference detection
- ▶ Keypad with audible and text feedback
- ▶ Easy switch between prepayment and post-payment option
- ▶ Automatic diagnosis of various faults includes contactor fault, memory devices fault, etc.
- ▶ Optional configuration:
 - JOY311M0 (Integrated)
 - JOY311M2 +CIU3 (2 wire communication)
 - JOY311MP +CIU1 (PLC communication)
- ▶ STS compliant
- ▶ Open cover detection
- ▶ Over load protection
- ▶ No-load protection
- ▶ Enlarged LCD



TECHNICAL SPECIFICATIONS

Item	Parameter	
Nominal Voltage	3X220/230/240V	
Operating Range	70% to 130% of Un	
Frequency Range	50/60Hz	
Base Current (Ib)	5A/10A	
Max Current (Imax)	100A	
Constant	1000 imp/kWh	
Accuracy	Class 1	
Starting Current	4%Ib	
Max Withstand Voltage	450V (48hr)	
Insulation Level	4kV rms for 1 minute	
Voltage Circuit	≤ 2W/10VA	
Current Circuit	≤ 1.0VA@Ib	
Electrostatic Discharge	16kV air discharge; 10kV contact discharge	
Immunity to Fast Transient Burst	4kV	
Surge Immunity	4kV or 6kV alternative	
User Interface	12 keys, international outlay standard with 0-9 numeric key, backspace and enter key	
Maximum Cable Size	Φ9.5 mm	
LCD	8 digits + icons + 2 digits (index) Size: 87mm x 34mm Backlight reserved	
LED Indicator	Pulse LED: 1000 imp/kWh Credit LED: low credit alarm with blinking Communication LED	
Buzzer	Feedback on key press Token accept or reject Low credit alarm with beeps	
Communication(MCU&CIU, if split)	2-wire or PLC Distance: over 200m	
Installation	Indoor or outdoor wall-mounted CIU optional	
Operating Temperature	-30°C - 60°C	
Storage Temperature	-40°C - 70°C	
Relative Humidity	≤ 95%; annual mean 75%	
IP Rating	IP54	
Standard Compliance	Meter Standard	IEC 62052-11, IEC62053-21, IEC 62055-31
	Communication Standard	IEC62055-41, IEC62056-21