



Make It Easy



JOY311

Three Phase Prepaid Electricity Meter

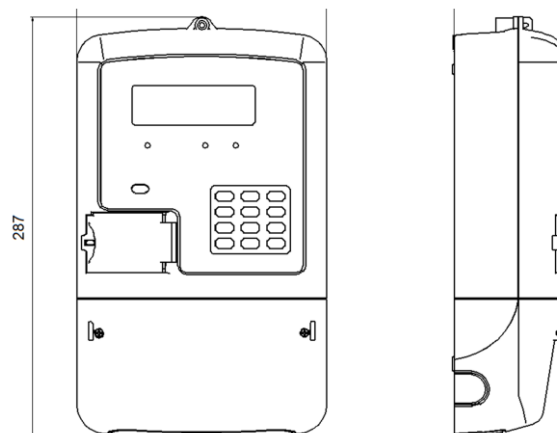
DESCRIPTION

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 house making it accessible for the consumer to enter in a credit token.

FEATURES

- ▶ Keypad with audible and text feedback
- ▶ 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
- ▶ Easy switch between prepayment and post-payment option
- ▶ Wide working voltage range from 120 to 240V
- ▶ Automatic diagnosis of various malfunction includes relay fault, memory devices fault, etc.
- ▶ Optional configuration with integrated or split(2-wire or PLC)
- ▶ STS compliant
- ▶ Terminal cover detection
- ▶ Over-load protection
- ▶ No-load protection
- ▶ Enlarged LCD



TECHNICAL SPECIFICATIONS

Item	Parameter	
Nominal Voltage	3x120/220/230/240V	
Operating Range	70% to 130% of Un	
Frequency Range	50/60Hz	
Base Current (Ib)	5A/10A	
Max Current (Imax)	100A	
Pulse 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	
CIU Types	JOYU3(2-wire), JOYU1(PLC)	
Maximum Cable Size	Φ9.5 mm	
LCD	8 digits+icons+2 digits (index)	
	Size:87mm x 34mm	
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	2-wire or PLC	
	Distance: over 200m	
Installation	Indoor or outdoor wall-mounted	
	CIU optional	
Weight(without CIU)	1900g	
operating Temperature	-30~60°C	
Storage Temperature	-40~70°C	
Relative Humidity	95%;annual mean 75%	
IP Rating	IP 54	
Standard Compliance	Meter Standard	IEC 62052-11, IEC62053-21, IEC 62055-31
	Communication Standard	IEC62055-41, IEC62056-21