



Make It Easy

 JOYMETER



JOY211
Single Phase Prepaid Electricity Meter



Tel: +86-573-83775889 Fax: +86-573-82237330 marketing@joymeter.com www.joymeter.com
No.88 West Zhengyang Rd, Jiaxing, Zhejiang, China

Joy Technology Co., Ltd

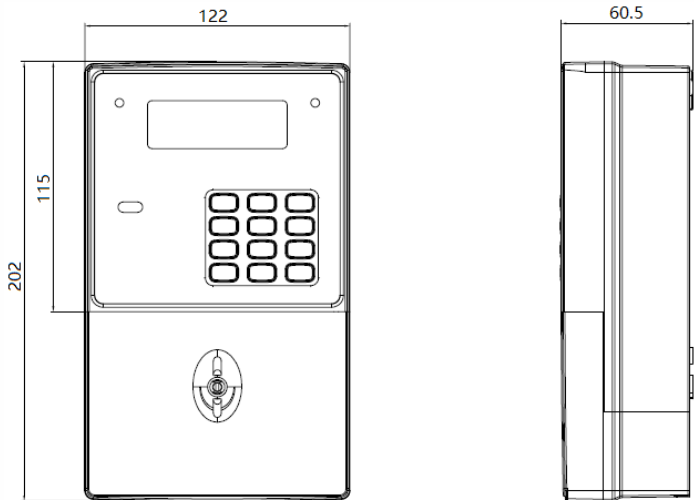
DESCRIPTION

JOY211 provides integrated/split solution for kWh measurement and prepayment. 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.

JOY211 is robust and reliable, offering innovative functional features with a modern design. The meter (integrated) or CIU (split) can be installed inside 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
- Improved sealing against ingress of insects
- Significant Reverse Energy (SRE) detection
- Magnetic interference detection
- Easy switch between prepayment and post-payment option
- Automatic diagnosis of malfunction includes relay fault, memory fault, etc.
- Wide working voltage range from 120 to 240V
- Optional configuration with integrated or split(2-wire or PLC)
- Optional terminal cover(short or long)
- STS compliant
- Terminal Cover Detection
- Over load protection
- No-load protection



TECHNICAL SPECIFICATIONS

Item		Parameter
Nominal Voltage		120/220/230/240V
Operating Range		70% to 130% of Un
Frequency Range		50/60Hz
Base Current (Ib)		5A/10A
Max Current (Imax)		80A
Constant		1000 imp/kWh
Accuracy		Class 1
Starting Current		4%Ib
Max Withstand Voltage		420V (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		Φ8.5 mm
LCD	8 digits + icons + 2 digits (index)	
	Size: 58mm x 26mm	
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		Optical port
Installation	Indoor or outdoor wall-mounted	
	CIU optional	
Weight(without CIU)		622g
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