

Joymeter



Make It Easy



JOY111M2
Single Phase DIN-Rail 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 Electronic Technology Co., Ltd

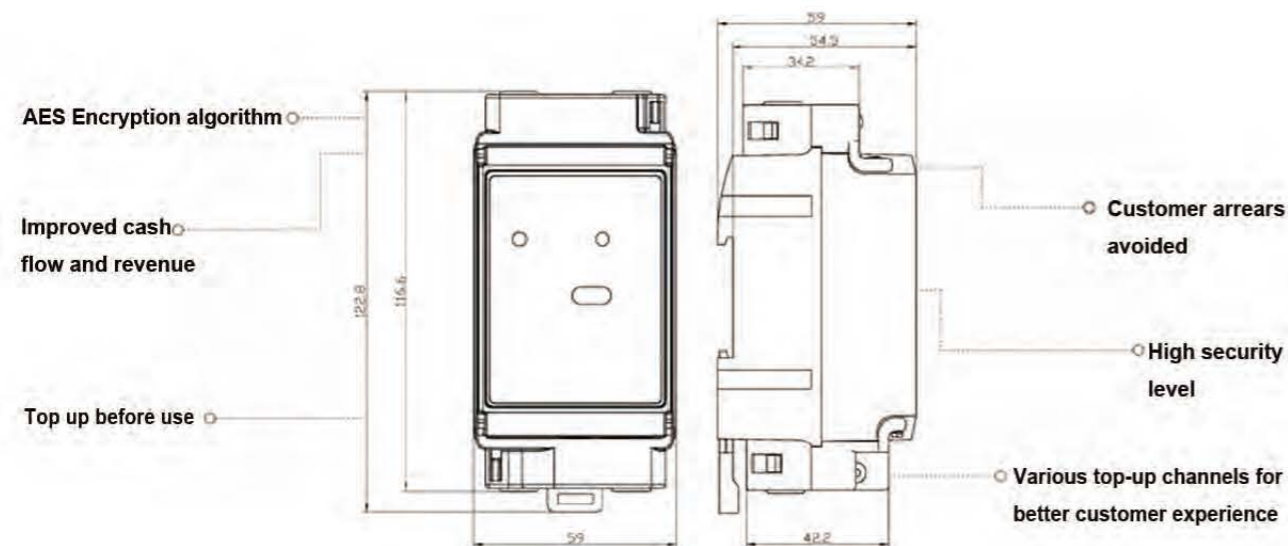
DESCRIPTION

JOY111M2, a DIN-Rail prepaid meter, consists of two parts, MCU (Metering Control Unit) and CIU (Customer Interface Unit), which communicate via a non-polarized twin-core cable.

The MCU can be installed outside house in a meter box and communicates with the CIU via non-polarized 2-wire communication, while the CIU is installed in customer's house. It provides more safety and easier daily operation.

FEATURES

- ▶ Improved sealing against ingress of insects
- ▶ Significant Reverse Energy (SRE) detection
- ▶ Magnetic interference detection
- ▶ Over load protection
- ▶ Easy switch between prepayment and post-payment option
- ▶ Automatic diagnosis of various faults includes contactor fault, memory fault, etc.
- ▶ Optional configuration: JOY111+ CIU3 (2 wire communication)
- ▶ Open cover detection
- ▶ No-load protection
- ▶ STS compliant



TECHNICAL SPECIFICATION

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 Classification	Double insulation
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(On CIU)	12 keys, international outlay standard with 0-9 numeric key, backspace and enter key
External Interface	Optical port
Disconnection Device	Internal Contactor
Terminal Type	Moving Cage
Maximum Cable Size	Φ8.5 mm
LED Indicator	Pulse LED: 1000 imp/kWh Credit LED: low credit alarm with blinking Communication LED
Communication With CIU	Non-polarized 2 wire low voltage Distance: over 200m
Installation	MCU: DIN Rail mounted CIU: Wall mounted
Weight	300g
Product Life	15 Years Data retained over 20 years
Operating Temperature	-30°C - 60°C
Storage Temperature	-40°C - 70°C
Relative Humidity	≤ 95%; annual mean 75%
IP Rating	IP51
Standard	Meter Standard
Compliance	Communication Standard
	IEC 62052-11, IEC62053-21, IEC 62055-31
	IEC62055-41, IEC62056-21