

KW7M Eco-POWER METER DIN Type

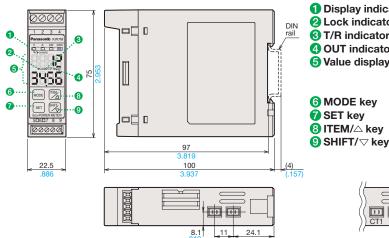


KW7M Eco-POWER METER DIN Type ARCT1B281E '07.6

New

KW7M Eco-POWER METER DIN Type

PART NAME AND DIMENSIONS



- 1 Display indicator ······Lighting or Blinking according to the display
- 2 Lock indicator ·····Lighting while in lock mode.
- 3 T/R indicatorBlinking while communication
- OUT indicator·····Lighting when pulse output
- 5 Value display Displays the instantaneous electrical power, integrated electrical energy, current,
 - voltage and electricity charge.

 Displays the all settings.



56789

Terminal layouts		
No.	Туре	
1	R	
2	S	
3	T	
4	No connection	
5	Pulse output "+"	
6	Pulse output "-"	
7	RS485 "+"	
8	RS485 "-"	
9	RS485 "E"	

PRODUCT TYPES AND SPECIFICATIONS

Main unit

Phase and wire system	Rated input	Current transformer	Part No.
Single-phase two-wire system Single-phase three-wire system Three-phase three-wire system	100 to 120/200 to 240 V AC	Dedicated CT type (5 A, 50 A (common)/ 100 A/250 A/400 A)	AKW7111

Dedicated current transformer (CT)

Rated primary current	Part No.
5 A/50 A	AKW4801C
100 A	AKW4802C
250 A	AKW4803C
400 A	AKW4804C

Measurement items

Item Unit		Unit	Data range
Instantaneous electrical power		kW	0.00 to 999999.99
Integrated electrical energy		kWh	0.00 to 999999.99 to 1000000.0 to 9999999.9
Current	L1 (CT1) phase current	А	0.0 to 999.9 to 1000 to 6000
Current	L2 (CT2) phase current	А	0.0 to 999.9 to 1000 to 6000
Voltage	Voltage between 1-2	V	0.0 to 999.9 to 1000 to 9999
Voltage	Voltage between 2-3	V	0.0 to 999.9 to 1000 to 9999
Electricity charge*			0.00 to 999999.99 to 1000000.0 to 9999999.9 to 10000000 to 99999999

^{*}Eco-POWER METER is designed chiefly for managing energy saving. It is not intended to be used for billing.

Main unit

Rated operating voltage	100 to 120/200 to 240V AC
Rated frequency	50/60 Hz common
Rated power consumption	6 VA
Allowable operating voltage range	85 to 132/170 to 264V AC (85% to 110% of rated operating voltage)
Allowable power off time	10 ms
Ambient temperature	-10°C to +50°C +14°F to +122°F (Storage temperature: -25°C to +70°C -13°F to +158°F)
Ambient humidity	30 to 85%RH (at 20°C non-condensing)
Display method	7-segment LED
Power failure memory method	EEP-ROM (Over 100,000 overwrites)

Communication

Interface	Conforming to RS485
Protocol	MEWTOCOL/Modbus (RTU)
Number of connected units	Max. 99 units

Input

	Rating	Single-phase two-wire system: 100 to 120/200 to 240 V AC (common use) Single-phase three-wire system: 100 to 120 V AC Three-phase three-wire system: 200 to 240 V AC
Input voltage	Allowable measuring voltage	85% to 110% of rated operating voltage
	VT ratio	1.00 to 99.99 [External voltage transformer (VT) is required.]
	Max. displayed voltage	9999 V
	Rating of primary side	5 A/50 A/100 A/250 A/400 A (when using dedicated CT) 1 to 4000 A (when using secondary 5A CT)
Input current	CT ratio	1 to 4000/5 A (Can be set in setting mode.) (Supported when dedicated CT used in 2-step configuration.)
	Max. displayed current	6000 A (When 400 A or higher, use commercial CT with 5 A rated secondary current.)
Accuracy (Not including CT error)	Basic accuracy	Instantaneous electrical power, Integrated electrical energy, Voltage, Current and Electricity charge (±2.5% F.S. ±1 digit (at 20°C rated input, rated frequency, power factor: 1), Guarantee accuracy range: 10 to 100% of a rated current of each CT
(Not including VT error)	Temperature characteristics	±1.5% F.S./10°C ±1 digit (for -10 to 50°C range, rated input and power factor: 1)
	Frequency characteristics	±1.5% F.S. ±1 digit (for ±5% frequency change, rated input and power factor: 1)

- Please read "Installation instruction" before using to ensure correct usage.
 For details, specifications and handling, please read the KW7M Eco-POWER METER user's manual.
- You can download the user's manual from http://www.mew.co.jp/ac/e.

These materials are printed on ECF pulp. These materials are printed with earth-friendly vegetable-based (soybean oil) ink.



■ Head Office: 1048, Kadoma, Kadoma-shi, Osaka 571-8686, Japan

http://www.mew.co.jp/ac/e/

■ Telephone: +81-6-6908-1050 ■ Facsimile: +81-6-6908-5781

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