

# Panasonic

ideas for life

## KW1M Series Eco-POWER METER

Simple and compact power meter  
perfect for control panels



KW1M-H Eco-POWER METER  
SD memory card type



KW1M Eco-POWER METER  
Standard type



# KW1M/-H

## Eco-POWER METER

CE

### Features

- Use “visualization” to grasp current status (measurement)  
In addition to simple measurement of voltage, current, power and integrated electrical power, etc., output of warning signals is possible using the “warning setting”.
- 50 mm thickness makes it perfect for control panel installations.
- Both screw and DIN rail installation (easy installation).
- Switchable between electrical power and electricity charge usage.
- Display of calculated CO<sub>2</sub> value possible.

### Features of KW1M-H

- Inherits features of KW1M.
- Internal memory (SD memory card reading)
- Built-in battery (for clock and log data backup)
- Addition of measurement items.
  - Power factor, frequency, and pulse counter
  - Integrated electrical power by month/day/hour
  - Calendar timer function

### Specifications

## Product type, Measurement items and Specifications

### Product type

Product name	Measured voltage input	Model No.
KW1M Eco-POWER METER Standard type	100/200 VAC	<b>AKW1110</b>
	100/200/400 VAC (Select with setting mode)	<b>AKW1111</b>
KW1M-H Eco-POWER METER SD memory card type	100/200/400 VAC (Select with setting mode)	<b>AKW1121</b>

  

Phase and wire system	Operating power supply	Measured current input	Current transformer (sold separately)	Terminal type
Single-phase two-wire system Single-phase three-wire system Three-phase three-wire system	100 to 240 VAC, 50/60 Hz	50A	Dedicated CT type [5 A, 50 A (common)/ 100 A/250 A/400 A]	Screw terminal (M3 “+/-” screw) or (M3.5 “+/-” screw)*1
Three-phase four-wire system (For AKW1111, AKW1121 only)		100A		
		250A		
		400A		

\*1 The M3.5 “+/-” screws are only for the operation voltage and voltage input terminals (P0, P1, P2, and P3).

### Measurement items

Item	Unit	Data display range
Instantaneous electrical power (Active)	kW	0.00 to 9999.99
Integrated electrical power (Active)	kWh/MWh	0.00 to 9999.99MWh 0.00 to 9999999.99kWh (When 9-digit display)
Current	R current	A
	S current*2	A
	T current	A
Voltage	R (RS) voltage	V
	S (RT) voltage*2	V
	T (TS) voltage	V
Electricity charge*1	–	0.00 to 999999
Converted CO <sub>2</sub> value	kg-CO <sub>2</sub>	0.00 to 999999
Power factor*2	–	0.00 to 1.00 [Identify leading phase (–) or lagging phase] (Only in range of phase angle $\theta = -90^\circ$ to $+90^\circ$ )
Frequency*2	Hz	47.5 to 63.0
Hour meter	ON time	h (Hour)
	OFF time	h (Hour)
Pulse counter*2	–	0 to 999999

\*1 Eco-POWER METER is designed chiefly for managing energy saving. It is not intended to be used for billing.

\*2 For AKW1111, AKW1121 only