

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Eco-POWER METER® performance comparis

		Mair	unit	Expansion unit	Main unit		Expansion unit				
		KW2M-A KW2M-X		KW2M-A/	KW2G KW2G-H			· · · · · · · · · · · · · · · · · · ·	KW2G-H		
		Standard type	Memory type	KW2M-X	Standard type	SD memory card type	Power measurement	Power measurement and Pulse output	Pulse input	Analog input	
Appearance		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	
Mod	el No.	AKW263100A	AKW264100A	AKW272100A	AKW2010G	AKW2020G	AKW2110G	AKW2160G	AKW2152G	AKW2182G	
Dime	ensions (mm in) (W × H × D)	85×140×65 3.3	346×5.512×2.559	85×70×65 3.346×2.756×2.559	50×95×65 1.9	97×3.74×2.56		25×95×65 0.	98×3.74×2.56		
Mou	nting method*1					DIN rail					
Эре	rating power supply				10	0-240V AC					
	t measured voltage ect with setting mode)		OV AC *When UL st upported 0 to 300V		100 / 200V AC system				-	-	
ystem	Single-phase two-wire system		0		0	0	0	0	-	-	
Phase and wire system	Single-phase three-wire system		0		0	0	0	0	-	-	
e and	Three-phase three-wire system		0		0	0	0	0	-	_	
Phas	Three-phase four-wire system		0		-	-	_	_	-	-	
	d measurement for V AC system*2		nsformer not requir Direct input possible	Exter	nal voltage trans	_	_				
Cur	ent transformer (CT)	Comn	nercial current sens	Dedicated to	Dedicated type: 5 A, 50 A, 100 A, 250 A, 400 A and 600 A				_		
Juil	Cit transionner (CT)		(1A or 5A CT)	Dedicated ty	po. o A, ou A, 10	, rand 000 A	-	_			
	Integrated electric power	0	0	0		○ (A	ctive)	_	_		
	Instantaneous electric power	0	0	0	○ (Act	tive, Reactive, A	pparent, Regene	-	-		
	Current	0	0	0		○ (R, N/		-	_		
	Voltage	0	0	0		O (RS, R	T, and TS)		_	_	
S	Electricity charge *4	0	0		0	0	, ,		_	_	
tem	Conversion carbon dioxide value	0	0	Discolario de la Mari	0	0	Displayed on the main unit	Displayed on the main unit	_	_	
_ 	Power factor	0	0	Displayed on the main unit	0	0			_	_	
il ne		0	0		0	0			_	_	
Measuring items	Frequency						O+5	O+F			
	Hour meter	0	0	0	-	-	○*5	○*5	O*5	-	
	Pulse count value	0	0	-	0	0	-	-	○*6	-	
	Simultaneous power and pulse measurement	0	0	_	0	0	_	_	_	-	
	Demand *7	0	0	-	-	_	-	-	-	-	
_	Electric power quality	○*9 ○*9									
nication	Communication protocol*10 Number of connected units			M	WTOCOL, MODBUS (RTU) switchover						
unic					Up	to 99 units					
Commur	Communication protocol*10 Number of connected units		TOCOL,MODBUS(-	-	-	-	-	-	
			TCP / IP , UDP / IP		_	-	-	-	_	-	
	ber of pulse input point *11	1 point		-	1 point	1 point	-	-	2 points	-	
Number of pulse output point		2 points		-	1 point	1 point	_	2 points	_	_	
Numl	ber of analog input point *12	-	-	-	-	-	-	-	-	2 points	
			0	_	0	0	_	0	-	-	
	Instantaneous active electric power	0								_	
	Instantaneous active electric power Current value	0	0	-	0	0	-	0	-		
alarm output			0	<u>-</u>	0	0	-	0	_	_	
alarm output	Current value	0								-	
alarm output	Current value Stand-by electric power	0	0	_	0	0	_	0	_		
Excess alarm output	Current value Stand-by electric power Preset value	0 0	0	-	0	0	-	O -		-	
Excess alarm output	Current value Stand-by electric power Preset value Demand	0 0	0	- - -	0 0 -	0 0 -	_ _ _	- -	_ _ _		
atx Excess alarm output	Current value Stand-by electric power Preset value Demand unit memory	0 0 0	0 0	- - -	0 0 - -	0 0 -	- - -	O - - -	- - -	_ _ _	
etxess alarm ontput	Current value Stand-by electric power Preset value Demand unit memory rnal memory endar timer	0 0 0 - -	0 0 0 0 -	- - - -	0 - - -	0 0 - 0	- - - - -	- - - - -	- - - -	- - - -	
Excess alarm ontbut Excess alarm ontbut Excess alarm ontbut	Current value Stand-by electric power Preset value Demand n unit memory rnal memory endar timer ble measurement	0 0 0 0 - -	0 0 0 0 -	- - - - -	0 - - - -	0 0 - 0 0	- - - - -	- - - - -	- - - - -	- - - - -	
Mair Excess alarm ontbut	Current value Stand-by electric power Preset value Demand n unit memory rnal memory endar timer ble measurement server	0 0 0 - - -	0 0 0 0 -	- - - - - - -	0 - - - - - 0	0 0 0 0 0	- - - - - - -	- - - - - 0	- - - - - -	- - - - - -	
Mair Excess alarm ontbut	Current value Stand-by electric power Preset value Demand n unit memory rnal memory endar timer ble measurement server	0 0 0 - - - 0	0 0 0 0 - 0 0	- - - - - - 0	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0	- - - - - - 0	0 - - - - 0	- - - - - - -	- - - - - - -	
Excess alarm ontbut Excess alarm ontbut Excess alarm ontbut	Current value Stand-by electric power Preset value Demand n unit memory rnal memory endar timer ble measurement server	0 0 0 - - -	0 0 0 0 -	- - - - - - -	0 - - - - - 0	0 0 0 0 0	- - - - - - 0	- - - - - 0	- - - - - - - - - 0	- - - - - - - 0	

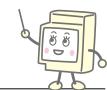
^{*1} DIN rail, mounting frame, and terminal socket are sold separately.
*2 VT (secondary side rated value 110V) is necessary for load measurement which exceeds

the rated input voltage.
*3 KW2M, KW9M: Primary side 65,535A or less, AKW8115: Primary side 4,000A or less. A general-purpose CT with a secondary side current 1A or 5A.

^{*4} The eco-power series is for self-managed energy-savings and cannot be used for billing

 ^{*5} Displayed at the main unit

Select as required!



KW9M				KW1M-H	KW4M DIN□48			ı	KW8M DIN48×9	16	
Standard type	Advanced type	KW1M Standard type		SD memory card type	MEWTOCOL type	MODBUS type	KW7M DIN rail		High performance type	1 A / 5 A CT input type	
2000) 2000) 2000) 2000) 2000)	2000) - 0000) - 0000 - 0000	500 B	S S S S	200 0 0 0 Manage	23 27 ¹ 1	anguar an		SECTION OF	E Caro	100	
PANEL mounting	PANEL mounting	DIN Scr	PANEL mounting	DIN Screw PANEL mounting	DIN Scr	PANEL mounting	DIN	PANEL mounting	PANEL mounting	PANEL mounting	
AKW91110	AKW92112	AKW1110	AKW1111	AKW1121	AKW5111 AKW5211	AKW5112 AKW5212	AKW7111	AKW8111	AKW8111H	AKW8115	
96×96×68 3.78×3.78×2.68 (including terminal base)		75×90×50 2.95×3.54×1.97			Screw terminal type: 48×48×81.9 1.89×1.89×3.22 22.5×75×1 11-pin type: 48×48×87.5 1.89×1.89×3.44 0.89×2.95×3						
Panel mounting		DIN rail, Screw, Panel mounting(mounting frame is required)			DIN rail, Screw, Panel mounting (option parts are required for each method)			Panel mounting			
100-240V AC 100-300V DC					100-240V AC						
0 to 500V AC		100/200V AC system	100/200/400	V AC system	1	00/200V AC syste	m	100/200/400V AC system			
0	0	0	0	0			0	0	0	0	
0	0	0	0	0		<u> </u>	0	0	0	0	
 0	0	0	0	0	0		0	0	0	0	
0 0		-	0	0	-		-	0 0 0			
	not required. ut possible	External voltage transformer (VT) required. Transformer not required Direct input possible			External voltage transformer (VT) required.			Transformer not required. Direct input possible.			
Commercial current sensor *3 (1A or 5A CT)		Dedicated type: 5 A, 50 A, 100 A, 250 A, 400 A and 600 A			5 A, 50	Dedicated type: A, 100 A, 250 A ar	d 400 A	Dedicated type: 5 A, 50 A, 100 A, 250 A, 400 A and 600 A		Commercial current sensor*3 (1A or 5A CT)	
0	0	(Active)	(Active)	(Active)	(Active)	(Active)	(Active)	○ (A	ctive, Reactive, Ap	parent)	
0	0	(Active)	(Active)	(Active)	(Active)	(Active)	(Active)	· · · · · · · · · · · · · · · · · · ·	ctive, Reactive, Ap	<u>'</u>	
0	0	(R and T)	○ (R, S, and T)	, ,	(CT1 and CT2)	. ,	(CT1 and CT2)				
0	0		, , , ,		(between 1 and 2, between 2 and 3)		(between 1 and 2, between 2 and 3)		P0, between P2 and P0		
		○ (R and T)		(RS, RT, and TS)					1	,	
0	0	0	0	0	0	0	0	0	0	0	
-	-	0	0	0	0	0	_	_	-	_	
0	0	_	0	0	_	-	_	0	0	0	
0	0	_	0	0	-	-	-	0	0	0	
-	_	0	0	0	0	0	_	0	0	0	
_	0	-	0	0	0	0	_	0	0	0	
_	0	_	0	0	_	-	_	0	0	0	
0	0	_	_	○*8	_	_	_	_	○*8	_	
○ THD only	○*9	_	_	_	_	_	_	_	_	_	
MEWTOCOL, MODBUS (RTU	U), DL / T645-2007 switchover	MEWTOCOL	, MODBUS (RT	U) switchover	MEWTOCOL	MODBUS(RTU)	MEV	WTOCOL, MODE	BUS (RTU) switche	over	
					Up to 99 units		.,,	, 2 -			
_	_	_	_	_	-	_	_	-	_	-	
_	_	_	_	_	_	_	_	_	_	_	
_	2 points	_	1 point	1 point	1 point	1 point	_	1 point	1 point	1 point	
_	2 points					-					
_		1 point	1 point	1 point	1 point	1 point	1 point	1 point	1 point	1 point	
	-			-	-	-	_				
-	0	0	0	0	0	0	0	0	0	0	
-	0	0	0	0	-	-	-		0	0	
_	0	_	0	0	-	_	_	_	0	0	
-	0	-	0	0	0	0	_	0	0	0	
_	0	-	_	0	_	_	_		0	_	
-	0	-	-	0	-	-	_	-	0	_	
_	_	_	_	0	_	_	_	-	_	_	
_	0	-	_	0	-	-	_	-	0	_	
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_	_	-	_	-	_	_	_	-	_	-	
_	_	0	0	0	0	_	0	0	0	0	
0	0	0	0	0	0	_	0	0	0	0	
_	_	_	_	0	_	_	_	_	_	_	
		_					_			_	
CE,c1	TUVus		CE,S-MARK		CE, UL,	S-MARK		CE,S-MARK			

^{*7} Only for the reference value. Please refer to the product manual for details.

*8 IEC demand cannot be used. 30 minutes fixed demand only.

*9 Higher harmonic wave, unbalance degree measurement, etc. Refer to the product page for details.

^{*10} Switchover possible using setting mode. Refer to the communication specifications regarding restrictions.
*11 Input method is contact / non-voltage contact (Open collector)
*12 Input range of the analog input unit is selected using setting mode Voltage: 0 to 5V / 1 to 5V Current: 0 to 20mA / 4 to 20mA