











Power Meter Family **Product Overview**







Company Introduction

Established in 1990 and headquartered in New Taipei City, Taiwan, ADTEK is a leading Taiwanese meter manufacturer, owning rich experience nearly up to 30 years.

We provide wide ranges of product lines as a specialist from entry level to high level, to meet every different market requirements in the fields of Power Management and Industrial Automation. With fast-paced research & development and production ability, we offer multiple customization services.

We have rich successful cases and well-known brand awareness in many applications, such as of power facilities, continuous production, infrastructure and commercial building. As the biggest Taiwanese meter exporter, our oversea clients are all over 35 countries.

Looking to the future, ADTEK is your best partner for IIoT and sustainable energy saving solution.

Company Evolution

1990

Established on July 30th.



2001

Found Chang Shuan Technology Co.,Ltd to expand market coverage in China.



2005

Formally complied with European Electrical Standards (CE).



ADTEK Suzhou

China Sales Team Around 20 people

ADTEK Taiwan Headquarter New Taipei City

Taiwan Sales Team
Around 20 people





2018

Aim to be a smart meter intelligent technology solution provider.

2013

Purchased R & D office and expanded headquarter area up to 580 square meter.



America Sales Representative

2017

Launched 1st self-developed innovative strategic product: AEM-DRA multi-circuit power meter.



Middle East Sales Representative 1 person

Europe Sales Representative 1 person







Communication Interface



Signal Processing & Display

Power Meter - Panel

CPM-80

CPM-70







Ethernet



AD-GW



ADPower Series Gateway (Modbus to Ethernet or WiFi)



AD300-Plus NEW IoT-Gateway





AD520







CPM-20

Multifunction Power Meter

Multifunction Power Analyzer

Multifunction Power Analyzer

Universal

Advanced



CPM-12

Multifunction Power Meter



Energy management software

with EMS software, gateway and meters.



CPM-10

Economic Multifunction Power Meter



AD-SeeS NEW IoT Platform





CM1/ CM2/ CM3-VA

4 Digitals Voltage/Current Meter



CS1/ CS2/ CS3-VA

Digital Voltage/Current Meter



Power Meter - Panel - DC Type

Process Meter - Panel

5 Single-Phase Loops / 1 (Main) Circuit



AEM-DD

Multi-Loop DC power meter



Multifunction DC Power Meter



CM1 / CM2-PR

Process Meter



CS1/ CS2/ CS3

Industrial Process Meter (Spin rate, Temperature, Weight.....)





Signal Measuring & Sensing

Power Meter - Din Rail

8 Three-Phase Loops + 2 Main Circuits



AEM-DRA
Multi-circuit Power Meter

5 Single-Phase Loops / 1 (Main) Circuit



AEM-DR Multi-Loop Power Meter

1 Loop for Single -Phase or Three Phases



CPM-12D NEW
Multifunction Power Meter



ADP-PM-A NEW
Multi-circuit Power Meter



Signal Transduce & Convert



CPT
Multifunction Power Transducer



CA / CV AC Current/ Voltage Transducer



CW / CQ AC Watt / Var Transducer



AT Converter/Isolator



MT
Industrial Signal Converter
(Frequency, AC/DC Signal...etc..)



ST Multifunction Converter



US-CTV

Split Type Current Transformer (Folder snap)



US-CTS

Split Core Current Transformer



UA-SHT DC Current Shunt



WTM-100

Wireless Temperature Transmitter & Meter



TH

Temperature Sensor



AQW

Wireless Air Quality Sensors



HTO

CO / CO2 / Temperature & Humidity Transmitter



PS

Pressure Transmitter



UC1 NEW

Universal Transmitter

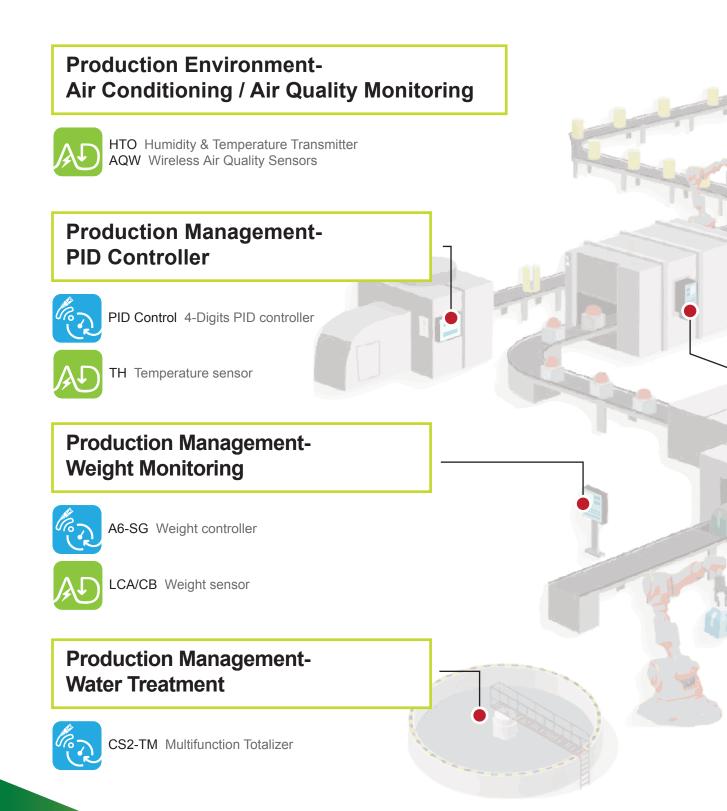




Four major application fields:

1. Continuous production Industry

Example: Machinery Production Line





EMS (Energy Management Software)



AD-SeeS IoT Platform

with EMS software, gateway and meters.

Factory Power Quality Monitoring & Power Management

Factory Power Quality monitoring



CPM-80 Multifunction Power Analyzer CPM-70 Multifunction Power Analyzer

Production line-Power monitoring & energy saving



AEM-DRA Multi-Circuit Power Meter



CPT Multifunction Power Transducer

Production Management- Process Control & Monitoring



CM1 Series Process Meter Frequency meter, counter ..etc.

Device Status- Motor Monitoring



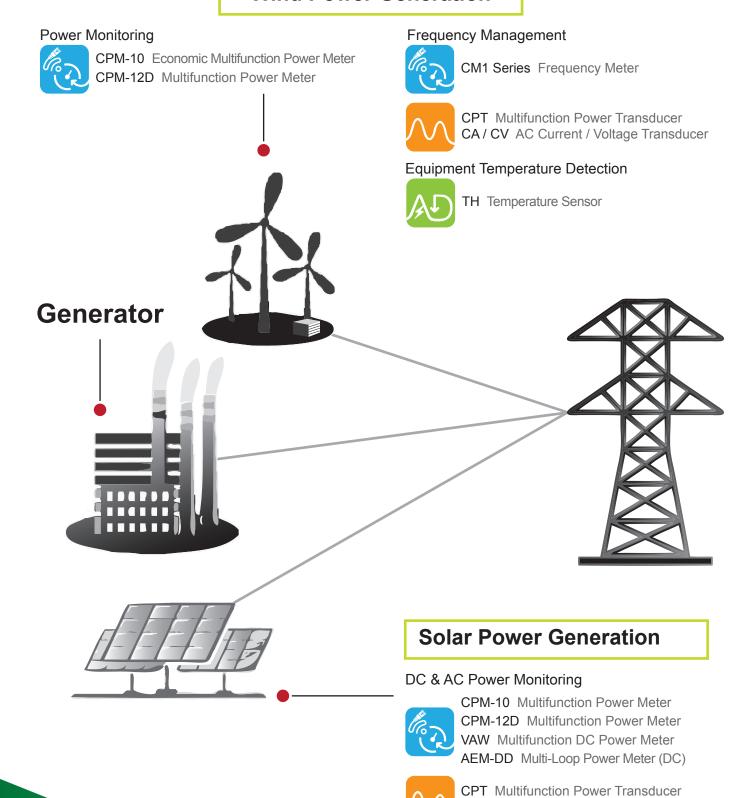
CPM-10 Economic Multifunction Power Meter
MWH Digital Energy Meter
CS1 Digital Voltage / Current Meter
VAW Multifunction DC Power Meter



Four major application fields:

2. Power facilities

Wind Power Generation



CA / CV AC Current / Voltage Transducer



Substation

Power Quality monitoring



CPM-80 Multifunction Power Analyzer CPM-70 Multifunction Power Analyzer

Panel Temperature Detection



WTM-100 Wireless Temperature Transmitter & Meter



CPT Multifunction Power Transducer CA / CV AC Current / Voltage Transducer

High Voltage Switchboard

Factory Power Quality monitoring



CPM-80 Multifunction Power Analyzer CPM-70 Multifunction Power Analyzer

Panel Temperature Detection



WTM-100 Wireless Temperature Transmitter & Meter



CPT Multifunction Power Transducer CA / CV AC Current / Voltage Transducer





EMS (Energy Management Software)



AD-SeeS IoT Platform with EMS software, gateway and meters.



Four major application fields:

3. Infrastructure

Example: Airport



Air Quality Detection



HTO Humidity & Temperature Transmitter AQW Wireless Air Quality Sensors

Lighting Power Management

Billing of Power Consumption



AEM-DRA Multi-Circuit Power Meter (TOU)

CPM-12D Multifunction Power Meter (TOU)



22.8KV/11.4KV



Substation in Airport Area



Substation in Airport Area

Power Quality monitoring



CPM-80 Multifunction Power Analyzer CPM-70 Multifunction Power Analyzer

Panel Temperature Detection

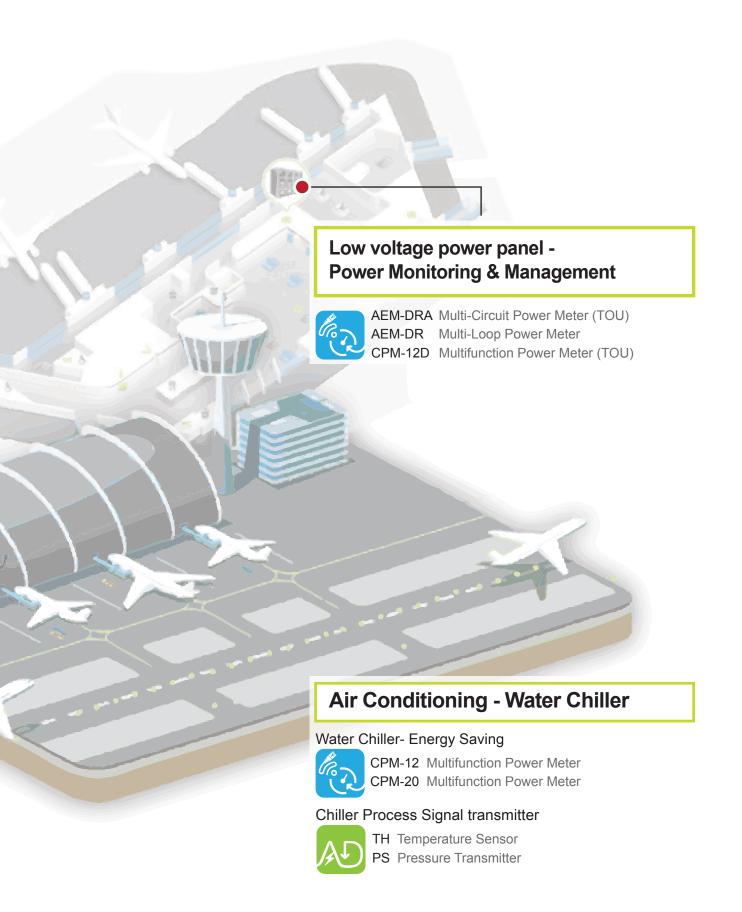


WTM-100 Wireless Temperature Transmitter & Meter



CPT Multifunction Power Transducer CA / CV AC Current / Voltage Transducer



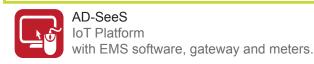




Four major application fields:

4. Commercial building





Data Center- UPS/ Battery room

Data center power monitoring



CPM-80 Multifunction Power Analyzer CPM-70 Multifunction Power Analyzer

UPS/ Battery room power monitoring



VAW Multifunction DC Power Meter

Multiple Rack power monitoring



AEM-DRA Multi-Circuit Power Meter

Data Center Environment Detection



HTO Humidity & Temperature Transmitter AQW Wireless Air Quality Sensors

Shopping mall-Air Conditioning - Water Chiller

Water Chiller- Energy Saving



CPM-12 Multifunction Power Meter CPM-20 Multifunction Power Meter

Chiller Process Signal transmitter



TH Temperature Sensor

PS Pressure Transmitter



Solar Power Station

DC & AC Power Monitoring



CPM-10 Multifunction Power Meter CPM-12D Multifunction Power Meter VAW Multifunction DC Power Meter AEM-DD Multi-Loop Power Meter (DC)



CPT Multifunction Power Transducer CA / CV AC Current / Voltage Transducer

Air Quality Detection



HTQ Humidity & Temperature Transmitter AQW Wireless Air Quality Sensors

Lighting Power Management

Billing by Time-Of-Use function



AEM-DRA Multi-Circuit Power Meter (TOU)

CPM-12D Multifunction Power Meter (TOU)

Shopping mall: Time of use (TOU) / Billing



AEM-DRA Multi-Circuit Power Meter (TOU)

CPM-12D Multifunction Power Meter (TOU)



Office Area



Shopping Mall



Panel Mounting

CPM-80 Series

Multifunction Power Analyzer



- Energy accuracy: 0.2S (IEC62053-22:2003)

• High sampling rate: 256 points / cycle

- True RMS Measurement
- Power Quality Event Record (Instantaneous Voltage Sag / Swell Event Time stamp)
- 3.5 "TFT LCD color screen and four quadrant display
- 1 Modbus Port as default
- Second communication port available (optional) : Ethernet or Modbus (Slave or Master)
- High individual harmonic measurement available (~63th)
- With phase angle, power demand, Time of Use (TOU), CO² emissions, electricity cost calculation
- Up to 48 kinds of alarm parameter measurement with data logging for analysis
- 4MB internal flash memory
- Up to 8 digital input, 4 relay output, 2 analog output, 2 pulse output.
- Easy to install with auto-wiring correction function
- FCC, CE, EMC, LVD certification, CMET (as UL) on-going

Application:

Advanced

- O For complex power system environment
- Factory automation applications
- Main panel, distribution panel measurement
- O Long-hour data logging for power quality analysis

CPM-70 Series

Multifunction Power Analyzer



- Sampling rate: 128 points / cycle
- Energy Accuracy: 0.5S (IEC62053-22:2003)
- With individual harmonic measurement (2~31th)
- With power demand, TOU, CO2 emissions
- Provide 34 kinds of alarm parameter measurement. Maximum / minimum value recording function
- Up to 4 digital input, 2 relay output, 1 digital output
- 1 Modbus Port as default
- · 2MB internal flash memory
- Dielectric strength more than 2KV
- Easy to install with auto-wiring correction function
- FCC, CE, EMC, & LVD certification
- Mean time between failure (MTBF) reliability more than 60,000 hours

Application:

- Motor control panel / Power measurement
- O Main panel, sub-panel, power parameter management
- Time of Use (TOU) function
- O Power quality analysis

Target markets:













Continuous production industry



CPM-20 Series

Multifunction Power Meter



- Sampling rate: 128 points / cycle
- Energy Accuracy: 0.5%
- With power demand, CO² emissions calculation
- Provide 33 kinds of alarm parameter measurement.
 Maximum / minimum value recording
- Up to 2 digital input, 2 digital output.
- 1 Modbus Port as default
- Dielectric strength more than 2KV
- FCC, CE, EMC, & LVD certification
- Mean time between failure (MTBF) reliability more than 60,000 hours

Application:

Universal

- Power system, sub-panel, power parameter measurement
- Electromechanical equipment electricity consumption monitoring
- O Time of Use (TOU) calculation
- O High CPI value

CPM-12 Series

Multifunction Power Meter



- Sampling rate: 128 points / cycle
- Energy Accuracy: 1%
- With total harmonic, import / export power measurement. CO² emissions calculation
- Provide 32 kinds of alarm parameter measurement.
 Maximum / minimum value recording
- Easy to install with auto-wiring correction
- Optional: 1 pulse output / 1 Modbus Port
- Dielectric strength more than 2KV
- FCC, CE, EMC, & LVD certification
- Mean time between failure (MTBF) reliability more than 60,000 hours

Application:

- Motor control panel / Power monitoring
- Power consumption monitoring and control
- O Distribution panel system
- Smart Building Automation / Energy Management System

CPM-10 Series

Ecomomic Multifunction Power Meter

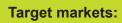


- Support balanced / unbalanced power system (3P3W, 3P4W, 1P2W, 1P3W)
- With unique dual-window display (10 digits + 4 digits)
- Energy Accuracy: 0.5%
- Provide 1 relays / 1 analog output
- Optional: 1 pulse output, 1 Modbus (RS485)
- Provide 25 alarm parameter measurement
- Compact size, comply to standard DIN size (96 * 48mm)
- CE, EMC, & LVD certification
- Mean time between failure (MTBF) reliability more than 60,000 hours

Ecomomic

Application:

- Motor control panel / Power monitoring
- Power consumption monitoring and control
- O Distribution panel system
- Smart Building Automation / Energy Management System
- O Power test equipment









Din Rail

AEM-DRA series

Multi - Circuit Power Meter

8 Three-Phase Loops + 2 Main Circuits



- Large display window, easy to install, suitable for standard din-rail mounting
- With power demand, CO² emissions calculation
- Provide individual harmonic measurement function (2nd ~ 31th)
- Provide 48 kinds of alarm parameter measurement. Maximum / minimum value recording
- Energy accuracy: 0.5%
- Support 2 individual main circuits, programmable mixture of wiring system (3P3W, 3P4W, 1P2W, 1P3W)
- Provide 8 three-phase or 24 single-phase loops measurement or mixture.
- Optional: 4 relay output, 2 digital input, 1 pulse output.
- 2MB internal flash memory
- 1 Modbus Port as default
- Second communication port available (Optional): 1 Ethernet (Modbus TCP) or 1 Modbus.
- Dielectric strength more than 2KV,
- FCC, CE, EMC, & LVD certification
- Mean Time Between Failure (MTBF) reliability more than 60,000 hours

Application:

- O For suites, shopping malls, dorm electricity bills
- O Hybrid power system power measurement
- Cong-hour data logging for power quality analysis
- Main panel, distribution panel, power demand measurement
- Electromechanical equipment electricity consumption monitoring

AEM-DR series

Multi - Loop Power Meter

5 Single-Phase Loops / 1 (Main) Circuit



- Support 5 single-phase Loops power measurement (3P3W, 3P4W, 1P2W, 1P3W)
- Simple din-rail installation, compact size : 54 * 81mm (without Relay module)
- Provide 34 kinds of alarm parameter measurement. Maximum / minimum value recording
- Energy accuracy: 0.5%
- 1 Modbus Port as default
- Optional: 1 extensional module- 5 relay output
- By Request : 1 extensional module WiFi or NB-loT
- Dielectric strength more than 2KV,
- Mean Time Between Failure (MTBF) reliability more than 60,000 hours
- FCC, CE, EMC, & LVD Certification

Application:

- Suites, shopping malls, dorm electricity bills
- Main panel, distribution panel, power demand measurement
- O Long-hour data logging for power quality analysis
- Electromechanical equipment electricity consumption monitoring
- Continued space

CPM-12D series

Multifunction Power Meter



- Sampling rate: 128 point/cycle
- Energy accuracy: 1.0%
- True RMS Measurement
- 2MB internal flash memory
- Provide 36 kinds of alarm parameter measurement
- Power demand, data logging, and Time-of-use (TOU) function, CO² emissions calculation.
- 1 Modbus Port as default
- Built-in 1 Pulse Output
- Dielectric strength more than 2 KV

Application:

- Energy management system
- Sectory automation
- Intelligent power panel
- O Industrial automation
- O Power Grid automation Community power monitoring
- Intelligent green building







AEM-DD series

Multi-Loop Power Meter -DC



- Support 5 single-phase Loops DC power measurement
- Simple din-rail installation, compact size: 54 * 81mm (without relay module)
- Provide 11 kinds of parameter measurement. maximum / minimum value recording
- Energy accuracy: 0.5%
- 2 line 6-digits value display simultaneously
- 1MB internal flash memory
- 1 Modbus Port as default
- Optional: 1 extensional 5 relay output module
- · Dielectric strength more than 2KV
- FCC, CE, EMC, & LVD certification
- Mean Time Between Failure (MTBF) reliability more than 60,000 hours

Application:

DC Type

- O Suitable for DC power system
- Multi-Loop DC power parameter measurement
- Electromechanical equipment electricity consumption monitoring
- O DC power measurement system
- Upgrade or maintenance of old system
- Solar power, wind power system and energy storage / Measurement of DC parameters of the system

VAW Series

Multifuntion DC Power Meter



- Provide DC voltage, current, power parameter measurement and operation time calculation
- With a unique dual-window display (10 digits +5 digits)
- Energy Accuracy: 0.1%
- Provide bidirectional energy measurement
- Sampling rate: 15 points / second
- The reaction time is less than 100 milliseconds
- Optional: 4 relays output / 2 external control input / 1 analog output /1 Modbus (RS485 communication)
- Relay can set to multiple power parameters for alarm
- Dielectric strength more than 2KV
- EMC & LVD certification

Application:

- O Solar & wind power system
- O DC power measurement system
- Battery Energy Storage monitoring
- Measurement and testing equipment
- O Portable 3c device

Target markets:











ADP-PM Series

Multi-Circiut Power Meter



- Sampling rate: 128 point/cycle
- Energy accuracy: 1.0%
- True RMS Measurement
- Modular design with Remote IO module in one rack.
- Up to 12 single phase or 4 three-phase circuit power input.
- \bullet Software programmable input. EEPROM auto-configuration. \bigcirc Market Stalls
- 2MB internal flash memory
- Provide 50 kinds of parameter measurement
- Power demand, data logging, and Time-of-use (TOU)
- 1 Modbus Port as default
- Built-in 1 Pulse Output
- Dielectric strength more than 2 KV

Modular

Application:

- Rental Building / House Apartment
- O School Dormitory / Exhibition Booth
- O Food Court / Movable House
- O Distributed Electricity Measurement







	VAW series	CPM10	CF	PM seri	ies	CPM70 series		CPM80 ser			ries		
Model No.	VAW	-10	12A	-20	-21	-71	-72	-73	-81	-82	-83	-85	-87
Installation	Panel	Pane	el						Par	nel			
Present values													
Phase / Neutral current		-	•			-			•	•	•		
Average voltage / Phase voltage		-	•			•			•	•	•		
/Line voltage													
Frequency		-	•			-	-		•	•	•		
Active / Reactive / Apparent power /	•	-	•			-				•	•		
Total power													
Power Factor / Average Power		-	•			-	-	•	-	•	•		
Factor													
Demand values													
Current demand					-		-	-		-	-		-
Present average							•						•
Active / Reactive / Apparent power													
demand													
Max. Current / Power demand					-		-			-	-		
Demand calculation					-		-	-		-			-
methods(sliding / fixed)													
Demand interval setting					•		-			•	•		
Power quality measurements													
THD measurement			•						•				•
Total harmonic distortion (THD)			•							•			
voltage / current													
Individual harmonic distortion (2nd													
~ 31th)													
Individual harmonic distortion (2nd													
~ 63th)													
Other measurements:													
Digital Input / Output					-	•	-	•	-	-	-	-	-
Run hours	•		•			•	-	•	•	•	•		•
Carbon emissions calculation (CO2)			•			-	-			•			
Electricity rate (single rate)						-	-		•				
Time of use (TOU) - 4 seasons, 8 tariff													
per day. Per year / up to 5 years													
Measurement type(three-phase /		-	-	-	-	-	-	-	-		•	-	•
single-phase)													
Load type display (R / L / C)				-	-	•	-	-	•	•	•		
Max. / Min. display and recording					•		-			•	•	•	
Record													
Maximum / Minimum value	•				•	•	-	-	-	-	•		-
(present value + definition of each													
phase)													
Alarm records				-	-	•	-	-	•	•	•	•	-
Data storage				-	-	•	-	-	•	•	•	•	
Firmware upgrade						•	-	-	•	-	•	•	•
alarm and event records				-	•		-			•	•		
Modbus			•	•	•	•	-	•	•	•	•	•	
Loading percentage indication				•			-		•	•			
Simultaneous display of four kinds			•	•			•		•	•			
of data													
Panel integration screen		•	-	•			-	•	•	•			
Auto-Wiring Correction			-				•		_	•	•		
3													



	٨	EM seri	۵¢	CPM series	ADD series
Madel No	- DR	- DRA	- DD	- 12D	ADP-PM-A
Model No.	- DK	- DRA	Din -		ADF-FIVI-A
Installation Present values			- וווט	Naii	
Phase / Neutral current					-
Average voltage / Phase voltage					-
/Line voltage				•	
Frequency					
Active / Reactive / Apparent power /				•	•
Total power					
Power Factor / Average Power Factor					
Demand values					
Current demand				_	
				-	-
Present average					
Active / Reactive / Apparent power demand				-	-
Max. Current / Power demand					
Demand calculation				-	-
methods(sliding / fixed)				-	
Demand interval setting		_		_	_
Power quality measurements				-	
THD measurement				-	_
Total harmonic distortion (THD)				-	-
voltage / current Individual harmonic distortion (2nd					
~ 31th)					
Individual harmonic distortion (2nd					
~ 63th)					
Other measurements:					
Digital Input / Output					■ ※
Run hours					-
Carbon emissions calculation (CO2)					
Electricity rate (single rate)				-	
Time of use (TOU) - 4 seasons, 8 tariff					
per day. Per year / up to 5 years				-	-
Measurement type(three-phase /					
single-phase)				-	-
Load type display (R / L / C)					
Max. / Min. display and recording Record				_	
Maximum / Minimum value					
					-
				_	
(present value + definition of each				_	
(present value + definition of each phase)		-		-	-
(present value + definition of each phase) Alarm records				•	•
(present value + definition of each phase) Alarm records Data storage		•			
(present value + definition of each phase) Alarm records Data storage Firmware upgrade	•	-		•	•
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records	-	=			•
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records Modbus		•		•	=
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records Modbus Loading percentage indication		•		•	•
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records Modbus Loading percentage indication Simultaneous display of four kinds		•		•	•
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records Modbus Loading percentage indication Simultaneous display of four kinds of data				•	•
(present value + definition of each phase) Alarm records Data storage Firmware upgrade alarm and event records Modbus Loading percentage indication Simultaneous display of four kinds				•	

*With ADPower I/O Module

	VAW series CPM10 CPM series				CPM70series			
Model Name	VAW	-10	-12A -20 -21			-71	-72	-73
Measure Type	DC			AC				
Specifications / measure	ment paramet	ers						
Input voltage (with exter								
Input measurement	0~600 Vdc	50~500	40	Vac	40~400 Vac			
range (Vac: L-N / Vdc)	Vac							
Frequency (Hz)				45 ~	[,] 65			
Current (A)	from 0~200. 00 μA up to 0~10A	0~5A, 0~				0~5A (0~1A optional)		
Resistance to current capacity	300% Rated	300% Rated	20	0% Rat	ted	200)% Rat	ted
Power consumption (VA)	<5	<12		<10			<10	
Aux. power supply	\3	\1Z		110			110	
Operation range	ADH, ADL,	ADH , ADL		ADH		Δ	DH , A	
(Product code**)	ADH, ADL,	ADIT, ADL		ADII		A	DП, А	DL
Frequency				45 ~	65			
Measurement accuracy				.5				
Measurement Loop	1	1	1		1		1	
(single phase)	_	_	_		_		_	
Measuring Loop		1	1		1		1	
(three phase)		_	_		_	1		
Active / Reactive/	0.1%	0.5%	1%	0	.5%	0.5%		
Apparent power	0.170	0.570	170	0.570		0.570		
Current / phase	0.04%	0.2%	0.5%	0	0.25%		0.2%	
Voltage (L-N)	0.04%	0.2%	0.5%		0.25%		0.2%	
Frequency		0.2%	0.2%		0.1%		0.1%	
Active energy accuracy	0.1% Energy (Import)	0.5%	1%		.5%	Class 0.5S		SS
Reactive energy accuracy	0.1% Energy (Export)	0.5%	1%	0	.5%	Class 2.0)
Pulse Output	- 37 ()- 9							
Open collector output		1*	1		up to 2	1		
Maximum external		30Vdc	40Vdc		40Vdc	30Vdc		
voltage								
Maximum load current		30mA	50mA		50mA		30mA	
Isolation ability			2KV	'ac				
Communication & Displ								
RS-485 Modbus		re, Baud Rate			•		: 8,	
RTU,Jbus	Р	arity: Even/ O	dd /Non	e, Stop	Bits: 1 o	r 2		
The second Modbus port (Optional)								
Ethernet (Optional)								
BACnet (By request)						*	*	*
WiFi (By request)								
NB-IoT (By request)								
Isolation ability			2KV	ac				
Back Light	Red & Green	Red & Green		W	hite light	black		
Visual range (mm)	7.1	7.1		65x61			65x61	
Language			Engl					
<u> </u>		Continue						

*ADH: AC 85~264V / DC 100~300V

*ADL:

AC / DC 20~56\

AC 115/230V

*: Optional



								,		
	CP	M80 se	ries			AEM se	ries	CPM series	ADP series	
-81	-82	-83	-85	-87	-DR	-DRA	-DD	- 12D	ADP-PM-A	
			AC				DC	A	C	
Speci	ificatior	ns / mea	asurem	ent par	ameters	S				
						000Vac)				
		40~400				400 Vac	10~100	40~400	≤ 400V	
							Vdc	Vac	= 1001	
		45 ~ 65	 5		45	~ 65		45~65	45~65	1
		0~1A, 0		^	73	Please	rofor	0~5A, 0~1A,	depends on	***(C
	0°-3A, (O** IA, C)** 1 <i>P</i> () 3)	^		to datas	sheet	333mv	external CT.	9999
	200% Rated					120% Ra	ited	200% Rated	120% Rated	
		<15			<10	<15	<10	<5	<5	
Λιιν	powers									**AC
Aux.		ADH,A[) l		Ι Λ	\DH	ADH,ADL	VDH VDI	DC 10~60V	A.
	,	ADH,AL	JL			ווטוו	ADH,ADL	ADH,ADL	DC 10~00V	D
		45 ~ 65	 5		45	~ 65		45 ~ 65	45 ~ 65	**AD
Мезс		nt accu			73	33		.5 05	33	A
ivicas	Surcific	1	тасу		5	up to 24	5	1	Up to 12	**A:
							3			A.
		1			2 up to 8 -			1	Up to 4	
	0.2%	/ 1.0%	/ 0.5%		0.5%		0.3% of FS+ 0.3% of Rdg	1%	1.0%	
		0.1%			0	.2%	0.2%	0.5%	0.5%	
		0.1%				.2%	0.2%	0.5%	0.5%	
		0.2%			0.1%			0.1%	0.2%	
		Class 0.2	າc			.5%	0.5%	1%	1.0%	
	,	Class U.,	23		J	.5 /0	0.570		2.070	
		Class 1.	0		0	.5%		1%	1.0%	
Pulse	Outpu	ıt								
1 disc	Cutpu	up to 2)			1		1	1	
		30Vdc			40Vdc			40Vdc	30Vdc	
		30mA				50mA		50mA	30mA	
		2KVac				2KVa	c	2KVac	1.5KV	
Comi	munica	tion & I	Display							
						200/3840 op Bits: 1	0, Data Bits: or 2	8,	UP to 115200bps	
•	-	•	•	•		•				
	•	•	-			•				1
										1
					*					1
					*					†
					2KVac				1.5KV	1
	3.5	" TFT C	Color		ZKVac		White light	black		-
		320x24	.0		39x21	128x64	39x21	320x240		-
		J2012+	5		I	English	JJAZI	JEUNETU		
					C	ontinue				

CT Primary up to 99A. Secondary: 333mv

DH:

AC 85~264V / DC 100~300V

DL:

AC / DC 20~56V

AC 115/230V

	VAW series	VAW series CPM10 CPM series			CPM70 series				
Model Name	VAW	-10	-12A	-20	-21	-71	-72	-73	
Alarm and control									
Alarm parameter type	5	25		33		33			
Response time (ms)	<100ms	<100ms	<100ms	<30	00ms	<300ms			
Internal Memory (MB)				2MB	2MB	2MB	2MB	2MB	
Number of digital input	up to 2				up to 2		up to 4		
Number of digital output (pulse output)		1*	1		up to 2		1		
Number of analog output	1								
Number of relay contact	up to 4	up to 2					up to 2		
output									
	for the o	letail of I/O	, please re	fer to da	atasheet.				
Electromagnetic compatibility	/								
IEC 61000-3-2						•			
IEC 61000-3-3			•			•		•	
IEC61000-4-2~6			•			•		•	
IEC 61000-4-8			•			•		•	
IEC 61000-4-11			•			•	-	•	
EN 55022 Class B								•	
IEC 61010-1 Ed 3			•			-	•	•	
IEC 62052-11						•		•	
IEC 61557-12						•		•	
EN 61326-1			•			•		•	
FCC part 15			•			•		•	
Physical parameters									
Cover protection level (IP)	52	52	50		50		50		
Size(mm)	96x48	96x48	!	96x96		96x96			
Depth(mm)	120	120		70		77			
Thickness(mm)	8	8		1~18		1~18			
Operating temperature (°C)	0~60	0~60		0~60		0~60			
Header temperature (°C)	0~60	0~60		0~60		0~60			
Panel temperature	-10~70	-10~70	-	10~70			-25~50		
(-25 °C will reduce the									
efficiency)									
Storage temperature	-10~70	-10~70	-	-10~70			-10~70		
Humidity range	20~95%	20~95%	5	~95%			5~95%		
(non-condensing)									
Weights(g)	350	350	<400	<4	400		<450		

*: Optional



CPM80 series						AEM series	S	CPM series	ADP series
-81	-82	-83	-85	-87	-DR	-DRA	-DD	- 12D	ADP-PM-A
Alarm a	ind contro	ol							
48						34		36	
		<500ms				<500ms		<500ms	<500ms
4MB	4MB	4MB	4MB	4MB	1MB	2MB	1MB	2MB	2MB
		up to 8				up to 2			up to 32 **
		up to 4				1		1	up to 32 **
		up to 2							up to 8 **
		up to 4			up to 5*	up to 4	up to 5*		up to 16 **
				he detail o	f I/O, ple	ase refer to	o datashe	et.	
Electron	magnetic	compatibil	ity						
			•						
			•						
		•	•	•					
		•	•	•					
•		•	•	•					
		•	•	•					
		•	•	•					
			•	•					
			•						
•	•	•	•	•	•	•	•	•	•
Physica	l paramet								
		50				50	1	20	20
		96x96			54x81	199x118	54x81	72x91.5	48x130
		101			65	77	65	58.7	120
		1~18			<1			<1	<1
		0~60			0~60			0~60	-25~70
		0~60			0~60			0~60	-25~70
-25~50					-10~70			-10~70	
-10~70					-10~70			-10~70	-30~75
		5~95%				5~95%		3~95%	
		<600			185	750	185	<400	

** with ADPower I/O Module

* with external I/O Module



ADTEK

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