



Digitized Automation for a Changing World

# Delta Power Meter DPM Series



[www.deltaww.com](http://www.deltaww.com)



# Delta Power Meter

## DPM Series

The DPM Series precisely measures various electrical energy and power quality parameters, including power factors, harmonics, and current/voltage unbalance. This series also features a variety of communication protocols for easy integration with critical power systems and monitoring functions to provide power data, off-limit alarms, and history logs.

### Panel Mount Type DPM-C Series



- Real-time data display and easy integration with remote monitoring systems, suitable for general applications in machine rooms

#### Applications

Distribution board | Electrical room |  
Factory/Building energy management system

### DIN Rail Mount Type DPM-D Series



- Easy installation and integration for equipment energy management

#### Applications

High power consuming equipment |  
Electrical equipment cabinet | Enclosure

### Multi-Loop Type DPM-M Series



- Multiple and selective large-scale circuit monitoring with lots of power circuits to save cost

#### Applications

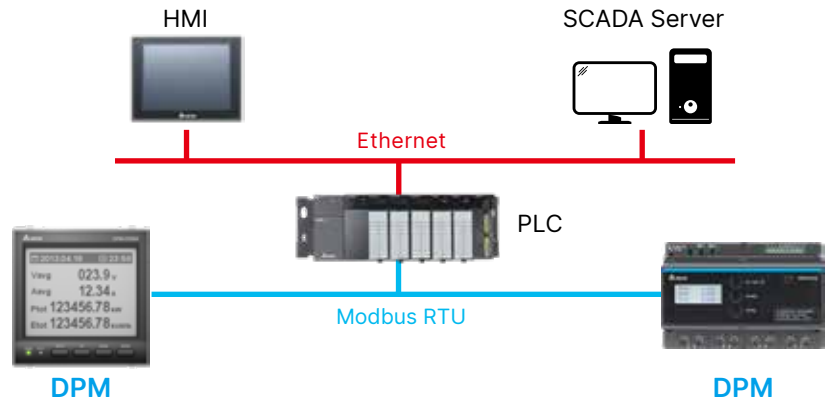
Shopping mall | Dormitory | Telecommunication System

## High Precision Power Measurement

- Precise measurement of bidirectional electrical energy and power parameters, meeting IEC 62053-22 standards

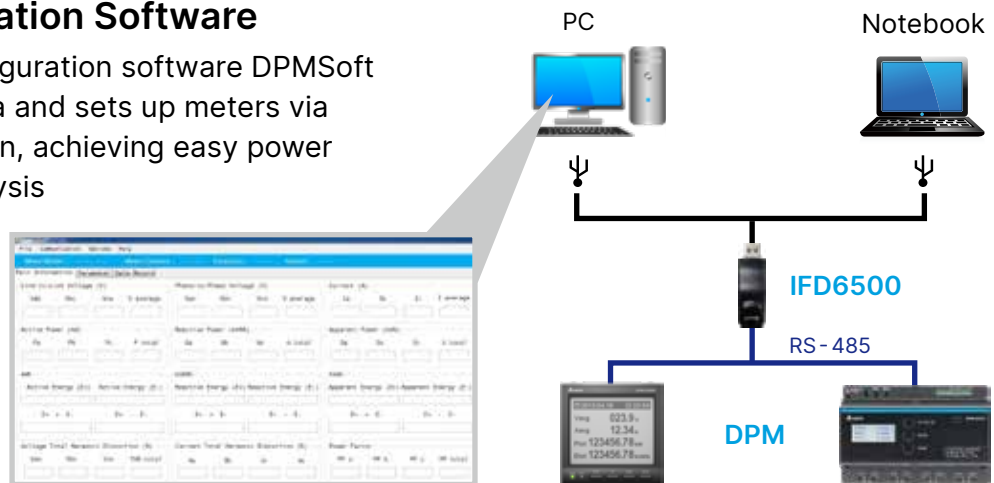
## Built-in Protocols for Easy Integration

- Built-in RS-485 communication port supports Modbus for transmission of all measurement values to the PLCs, PCs and monitoring software



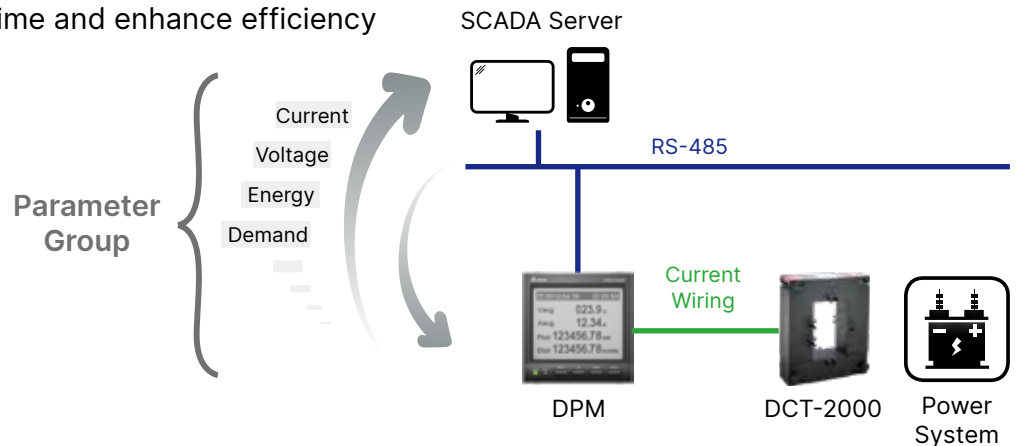
## PC-based Configuration Software

- The power meter configuration software DPMSoft collects electricity data and sets up meters via Modbus communication, achieving easy power management and analysis



## User-defined Parameter Groups

- Allows user-defined Modbus addresses to multiple corresponding parameters for the host computer to acquire data at one time and enhance efficiency



# Panel Mount Type

## DPM-C Series

- Suitable for applications in general power systems
- Large LCD displays power data in real time
- A variety of communication protocols for easy integration
- Various power monitoring functions for different applications



### Applications

Distribution board | Electrical room |  
Factory/Building energy management system

## Features

### Multi-Language Display

- Large dot matrix LCD (198x168 dots), high font recognition
- Multi-language display: English (capital and lowercase letters), Chinese, Japanese and other languages



DPM-C530: dot matrix LCD for high recognition display, better than segment LCD display

Ptot 123456.78 kW  
Etot 123456.78 kWh



### Event Alarms and History Logs

- Keeps max. 2 months of electricity measurement values for analysis;  
up to 17 power parameters selectable for recordings of different time intervals  
(e.g. recording 17 electricity parameters every 5 minutes for up to 2 months);  
29 types of built-in alarms and up to 500 alarms recording

Interval	0 ~ 59 secs.	1 ~ 5 mins.	5 ~ 60 mins.
Capacity			
Max. Data Types	6	17	17
Max. Storage Time (Days)	7	31	62

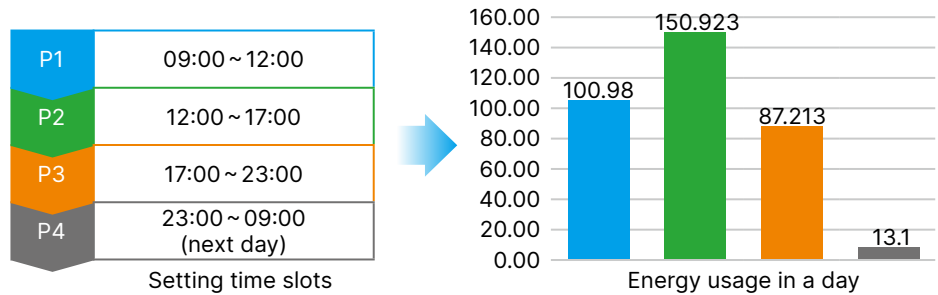
## Auto-Recording

- Automatic calculation of monthly energy consumption
- Allows users to setup specific dates for monthly calculation



## Multi-Tariff

- Automatic measurement & calculation of power consumption during a specific time period
- Multiple interval groups setting to measure power consumption at different periods of time



## Ethernet Communication

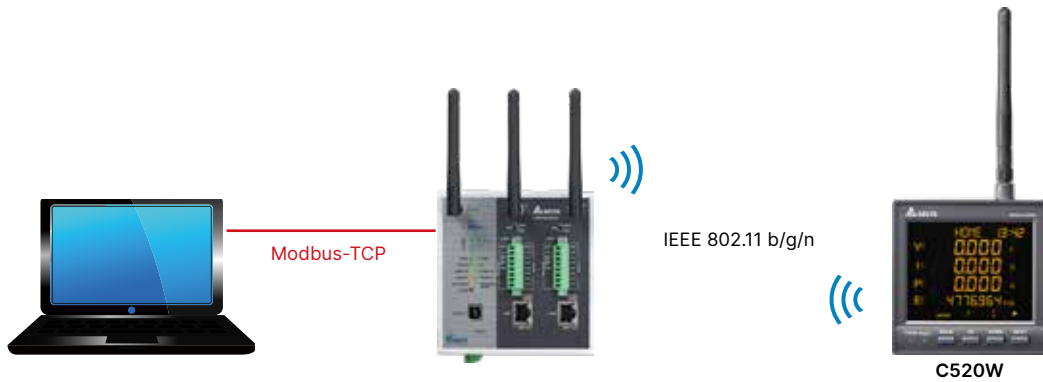
- Dual Ethernet protocols support Modbus TCP
- Easy serial connection without gateway, no need to occupy communication ports
- Basic settings and data viewing on web page





## WiFi

- WiFi transmission
  - Reduced wiring cost and time
  - High-speed data exchange and data transmission capability (faster than RS-485)
  - Highly secure wireless data exchange
- No wiring limit, reduces cost and manpower for wiring



## Input / Output Capability

Achieves easier system integration with functions such as anomaly alarms, and connected devices' monitoring & control.



### Digital input

External condition monitoring / input metering / setting adjustment



### Digital output

Alarms / pulse (kWH only) calculation









### Relay

Alarms / external devices activation



# DPM-C Series Information

Model	DPM-C530	DPM-C530E	DPM-C532	DPM-C520	DPM-C520W
Product Appearance					
Front Panel Dimensions	96 x 96 mm	96 x 96 mm	96 x 96 mm	96 x 96 mm	96 x 96 mm
Accuracy Class					
Active Energy	IEC 62053-22 Class 0.5S	IEC 62053-22 Class 0.5S	IEC 62053-22 Class 0.5S	0.5%	0.5%
Instantaneous Measurement					
Current	●	●	●	●	●
Voltage	●	●	●	●	●
Frequency	●	●	●	●	●
Active, Reactive and Apparent Power	●	●	●	●	●
Power Factor	●	●	●	●	●
Active, Reactive and Apparent Energy	●	●	●	●	●
Demand Value					
Current	●	●	●		
Power	●	●	●		
Calculation Mode	Fixed Block	Sliding/Fixed Block	Sliding/Fixed Block		
Power Quality Analysis					
Current/Voltage Unbalance	●	●	●	●	●
Total Harmonic Distortion (Current/Voltage)	●	●	●	●	●
Individual Current/Voltage Harmonics	31 <sup>st</sup>	31 <sup>st</sup>	31 <sup>st</sup>		
Advanced Function					
Max./Min. Instantaneous Values with Timestamp	●	●	●	●	●
Alarm Function	●	●	●	●	●
Alarm Condition	29	29	29	10	10
Alarm History	●	●	●		
Data Logs	●	●	●		
User-Define Modbus Address	35	35	35	5	5
Monthly Energy Usage	●	●	●		
Multi-Tariff (Section number)	8	8	8		
Multi-Language UI	Chinese/English/Japanese				
I/O					
Digital Input			4		
Digital Output			2		
Communication					
RS-485	●		●	●	●
Ethernet		● (2 ports)			
Modbus	RTU/ASCII	TCP	RTU/ASCII	RTU	RTU/TCP
BACnet MS/TP	●		●		
WiFi (802.11 b/g/n)					●

Model	DPM-C320	DPM-C510	DPM-C510	DPM-C501L	DPM-C502
Product Appearance					
Front Panel Dimensions	72 x 72 mm	96 x 96 mm	96 x 96 mm	96 x 96 mm	96 x 96 mm
<b>Accuracy Class</b>					
Active Energy	0.5%	IEC 62053-22 Class 0.5S	IEC 62053-22 Class 0.5S	0.5%	0.5%
<b>Instantaneous Measurement</b>					
Current	●	●	●	●	●
Voltage	●	●	●	●	●
Frequency	●	●	●	●	●
Active, Reactive and Apparent Power	●	●	●	●	●
Power Factor	●	●	●	●	●
Active, Reactive and Apparent Energy	●	●	●	●	●
<b>Demand Value</b>					
Power					●
Calculation Mode					Sliding Block
<b>Power Quality Analysis</b>					
Current / Voltage Unbalance	●			●	●
Total Harmonic Distortion (Current / Voltage)	●			●	●
Individual Current / Voltage Harmonics					31 <sup>st</sup>
<b>Advanced Function</b>					
Max. / Min. Instantaneous Values with Timestamp	●			●	●
Alarm Function	●			●	●
Alarm Condition	10			10	10
Data Logs					●
User-Define Modbus Address	5			5	5
Multi-Tariff (Section number)					4
<b>I/O</b>					
Digital Input				4	4
Relay				2	2
<b>Communication</b>					
RS-485	●	●		●	●
Ethernet			●		
Modbus	RTU	RTU	TCP	RTU	RTU



# Technical Specifications

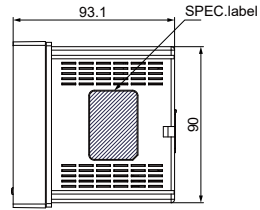
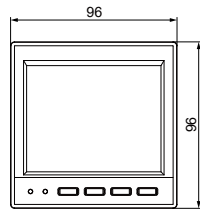
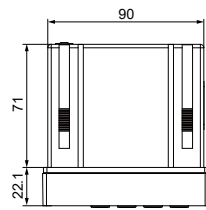
Model	DPM-C530	DPM-C530E	DPM-C532
<b>Measurement Accuracy</b>			
Current		± 0.5%	
Voltage		± 0.5%	
Active Energy		IEC 62053-22 Class 0.5S	
Reactive Energy		± 1%	
Apparent Energy		± 2%	
Active Power		± 0.5%	
Reactive Power		± 1%	
Apparent Power		± 2%	
Power Factor		± 0.5%	
Frequency		± 0.5%	
<b>Input Characteristics</b>			
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W		
Voltage	35 ~ 690 V <sub>AC</sub> (L-L) 20 ~ 400 V <sub>AC</sub> (L-N)		
Current	1A / 5A		
Frequency	45 ~ 70Hz		
Control Power	AC: 100 ~ 240 V (Max.Power Consumption 4.6W) DC: 100 ~ 300V		
<b>Digital Input</b>			
On Voltage			11 ~ 40 V <sub>DC</sub>
Off Voltage			0 ~ 4 V <sub>DC</sub>
Input current			≤ 8 mA
Input Resistance			3k Ω
Maximum Frequency			200Hz
Isolation			5kV rms
<b>Digital Output</b>			
Max Load Voltage			40 V <sub>DC</sub>
Max load current			20 mA
On Resistance			50 Ω max
Frequency for Digital Output			100Hz max
Pulse width for Digital Output			50% duty cycle
Isolation			5kV rms
<b>Data Record</b>			
Max. /Min. Log	●	●	●
Alarm Status & Timestamp	●	●	●
Alarm Counting	●	●	●
Alarm History Record	500	500	500
Data Logging	Up to 17 parameters with configurable interval & duration (e.g. 17 parameters for 30 days at 1 minute interval)		
Customizable Data Logs	●	●	●
<b>Communication</b>			
Protocol (Interface)	Modbus RTU / ASCII (RS-485) BACnet MS/TP (RS-485)	Modbus TCP (Ethernet)	Modbus RTU / ASCII (RS-485) BACnet MS/TP (RS-485)
<b>Mechanical Characteristics</b>			
IP Protection - Front Display		IP52	
IP Protection - Meter Body		IP20	
Dimensions (W x H x D, mm)	96 x 96 x 95.4	96 x 96 x 127.5	96 x 96 x 127.5
Weight (g)	400	450	450
<b>Environmental Characteristics</b>			
Operating Temperature	-20 ~ +60 °C		
Storage Temperature	-30 ~ +70 °C		
Relative Humidity	~ 95% RH		
Altitude	Below 2,000 meters		
<b>Electromagnetic Compatibility</b>			
Electrostatic Discharge	IEC 61000-4-2		
Immunity to Radiated Fields	IEC 61000-4-3		
Immunity to Fast Transients	IEC 61000-4-4		
Immunity to Impulse Waves	IEC 61000-4-5		
Conducted Immunity	IEC 61000-4-6		
Immunity to Magnetic Fields	IEC 61000-4-8		
Immunity to Voltage Dips	IEC 61000-4-11		
Radiated Emissions	FCC Part 15, EN 55011 Class A		
Conducted Emissions	FCC Part 15, EN 55011 Class A		
Harmonics Emissions	IEC 61000-3-2		
Flicker Emissions	IEC 61000-3-3		
<b>Certification</b>			
Safety	UL / CE / RCM		UL / CE
Accuracy	IEC 62053-22 / CMA		

Model	DPM-C520	DPM-C520W	DPM-C320
<b>Measurement Accuracy</b>			
Current		± 0.5%	
Voltage		± 0.5%	
Active Energy		± 0.5%	
Reactive Energy		± 1%	
Apparent Energy		± 2%	
Active Power		± 0.5%	
Reactive Power		± 1%	
Apparent Power		± 2%	
Power Factor		± 0.5%	
Frequency		± 0.5%	
<b>Input Characteristics</b>			
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W		
Voltage	35 ~ 690 V <sub>AC</sub> (L-L) 20 ~ 400 V <sub>AC</sub> (L-N)		
Current	1A/5A		
Frequency	45 ~ 70Hz		
Control Power	AC: 100 ~ 240 V (Max. Power Consumption 4.6W) DC: 100 ~ 300 V		
<b>Data Record</b>			
Max./Min. Log	●	●	●
Alarm Status & Timestamp	●	●	●
Alarm Counting	●	●	●
<b>Communication</b>			
Protocol (Interface)	Modbus RTU (RS-485)	Modbus RTU (RS-485) / Modbus TCP (WiFi, IEEE802.11 b/g/n)	Modbus RTU (RS-485)
<b>Mechanical Characteristics</b>			
IP Protection - Front Display	IP52		
IP Protection - Meter Body	IP20		
Dimensions (WxHxD, mm)	96x96x95.4		72x72x107.7
Weight (g)	400	400	250
<b>Environmental Characteristics</b>			
Operating Temperature	-20 ~ +60 °C		
Storage Temperature	-30 ~ +70 °C		
Relative Humidity	~ 95% RH		
Altitude	Below 2,000 meters		
<b>Electromagnetic Compatibility</b>			
Electrostatic Discharge	IEC 61000-4-2		
Immunity to Radiated Fields	IEC 61000-4-3		
Immunity to Fast Transients	IEC 61000-4-4		
Immunity to Impulse Waves	IEC 61000-4-5		
Conducted Immunity	IEC 61000-4-6		
Immunity to Magnetic Fields	IEC 61000-4-8		
Immunity to Voltage Dips	IEC 61000-4-11		
Radiated Emissions	FCC Part 15, EN 55011 Class A		
Conducted Emissions	FCC Part 15, EN 55011 Class A		
Harmonics Emissions	IEC 61000-3-2		
Flicker Emissions	IEC 61000-3-3		
<b>Certification</b>			
Safety	UL/CE		
Accuracy	CMA		
WiFi	CE/FCC/JRF/ KCC/NCC/NBTC		

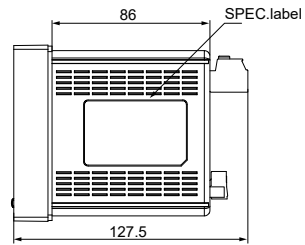
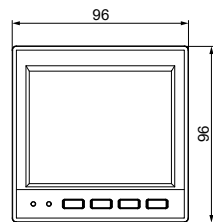
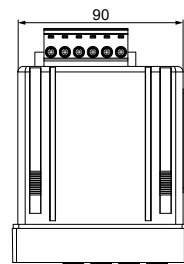
Model	DPM-C510	DPM-C510E	DPM-C501L	DPM-C502
<b>Measurement Accuracy</b>				
Current	± 0.5%		± 0.5%	
Voltage	± 0.5%		± 0.5%	
Active Energy	IEC 62053-22 Class 0.5S		± 0.5%	
Reactive Energy	± 2%		± 1%	
Apparent Energy	± 2%		± 2%	
Active Power	± 0.5%		± 0.5%	
Reactive Power	± 2%		± 1%	
Apparent Power	± 2%		± 2%	
Power Factor	± 0.5%		± 0.5%	
Frequency	± 1%		± 0.5%	
<b>Input Characteristics</b>				
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W		1P2W, 1P3W, 3P3W, 3P4W	
Voltage	80 V <sub>AC</sub> ~ 690 V <sub>AC</sub> (L-L) 50 V <sub>AC</sub> ~ 400 V <sub>AC</sub> (L-N)		35 V <sub>AC</sub> ~ 690 V <sub>AC</sub> (L-L) 20 V <sub>AC</sub> ~ 400 V <sub>AC</sub> (L-N)	
Current	1A/5A		1A/5A	
Frequency	50/60Hz		45 ~ 70Hz	
Control Power	AC: 100 ~ 240V (Max. Power Consumption 4.6W) DC: 100 ~ 300V		AC: 100 ~ 240V (Max. Power Consumption 4.6W) DC: 100 ~ 300V	
<b>Digital Input</b>				
On Voltage			With build-in power	
Off Voltage				
Input Current			≤ 5 mA	
Input Resistance			3k Ω	
Maximum Frequency			20Hz	
Isolation			2.5kV rms	
<b>Relay</b>				
Max Output Frequency			20 Hz	
Switching Current			240V <sub>AC</sub> at 2 Amps, resistive 24V <sub>DC</sub> at 2 Amps, resistive	
Isolation			2.5kV rms	
<b>Data Record</b>				
Max. /Min. Value			●	●
Alarm Status & Timestamp			●	●
Alarm Counting			●	●
Data Logs				Fixed 4 parameters with configurable interval & duration (e.g. 4 parameters for 7 days at 1 minute intervals)
<b>Communication</b>				
Protocol (Interface)	Modbus RTU (RS-485)	Modbus TCP (Ethernet)	Modbus RTU (RS-485)	
<b>Mechanical Characteristics</b>				
IP Rating - Front Panel	IP52		IP52	
IP Rating - Meter Body	IP20		IP20	
Dimensions (W x H x D, mm)	96 x 96 x 98.1		96 x 96 x 95.4	
Weight (g)	350		400	400
<b>Environmental Characteristics</b>				
Operating Temperature	-20 ~ +60 °C		-20 ~ +50 °C	
Storage Temperature	-30 ~ +70 °C		-30 ~ +60 °C	
Relative Humidity	~ 95% RH		~ 95% RH	
Altitude	Below 2,000 meters		Below 2,000 meters	
<b>Electromagnetic Compatibility</b>				
Electrostatic Discharge	IEC 61000-4-2		IEC 61000-4-2	
Immunity to Radiated Fields	IEC 61000-4-3		IEC 61000-4-3	
Immunity to Fast Transients	IEC 61000-4-4		IEC 61000-4-4	
Immunity to Impulse Waves	IEC 61000-4-5		IEC 61000-4-5	
Conducted Immunity	IEC 61000-4-6		IEC 61000-4-6	
Immunity to Magnetic Fields	IEC 61000-4-8		IEC 61000-4-8	
Immunity to Voltage Dips	IEC 61000-4-11		IEC 61000-4-11	
Radiated Emissions	FCC Part 15, EN 55011 Class A		FCC Part 15 EN 55011 Class A	
Conducted Emissions	FCC Part 15, EN 55011 Class A		FCC Part 15 EN 55011 Class A	
Harmonics Emissions	IEC 61000-3-2		IEC 61000-3-2	
Flicker Emissions	IEC 61000-3-3		IEC 61000-3-3	
<b>Certification</b>				
Safety	UL / CE			
Accuracy	IEC 62053-22		CMA	

# Dimensions

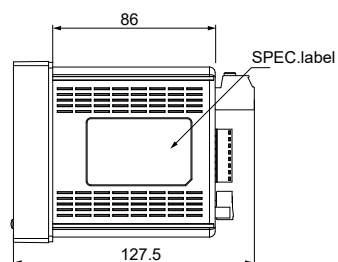
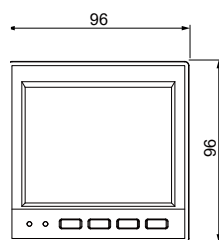
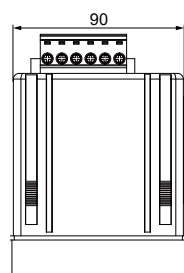
DPM-C530  
DPM-C520  
DPM-C520W



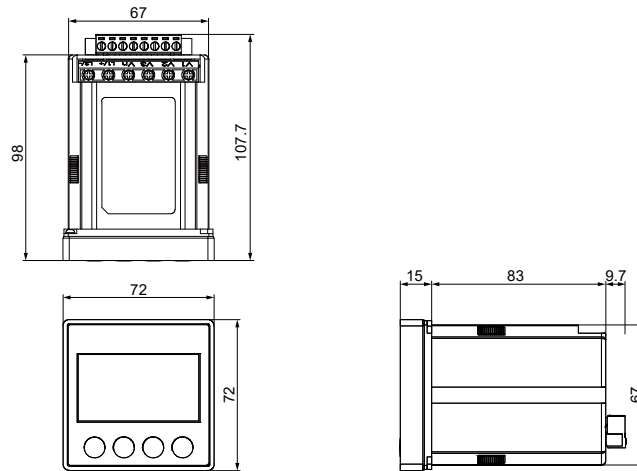
DPM-C530E



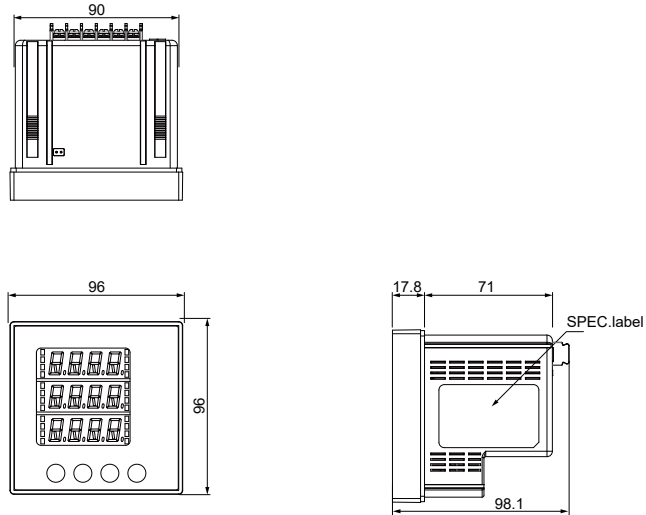
DPM-C532



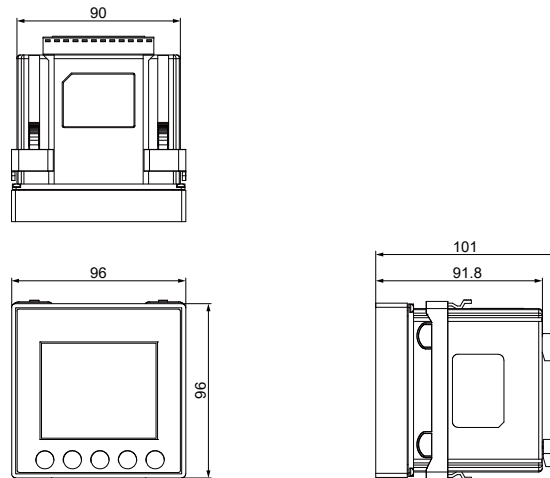
**DPM-C320**



**DPM-C510  
DPM-C510E**



**DPM-C501L  
DPM-C502**





# DIN Rail Mount Type

## DPM-D Series

- Easy installation and integration for various equipment
- Applicable to general energy management systems
- Multiple energy measurement functions for different applications

### Applications

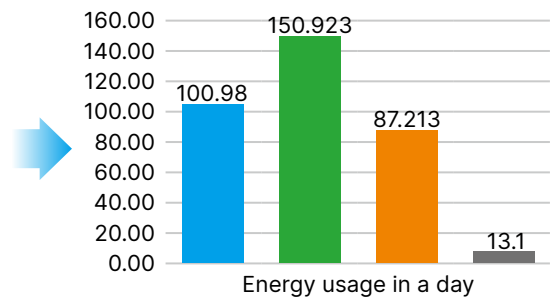
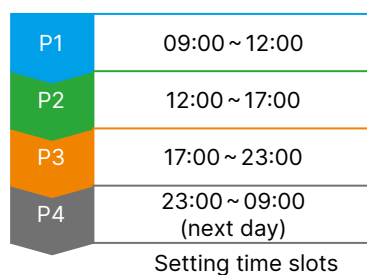
High power consuming equipment |  
Electrical equipment cabinet | Enclosure



## Features

### Multi-Tariff

- Automatic measurement & calculation of power consumption during a specific time period
- Multiple interval groups setting to measure power consumption at different periods of time



### Input / Output Capability

Achieves easier system integration with functions such as anomaly alarms, and connected devices' monitoring & control.



#### Digital input

External condition monitoring / input metering / setting adjustment



#### Digital output

Alarms / pulse (kWh only) calculation

## Data Recording (Recording conditions depend on models)

- User-defined time intervals for recording (Units: day/hour/min./sec.)
- Max. 50 parameters recording
- Max. 16 alarm conditions and max. 16 alarms recording

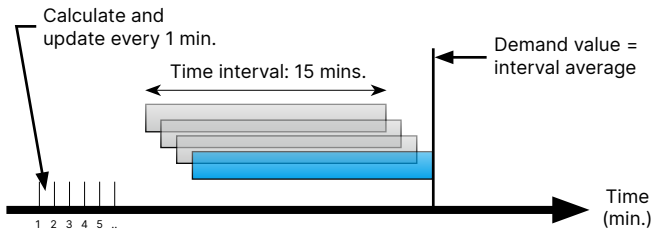
Recorded items vs. Record duration  
(at 1 minute intervals)

Parameter(s)	Recording Days
1	90
7	30
20	12

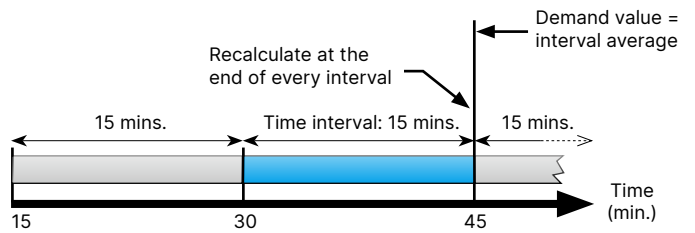
## Demand Calculation

- Defines time intervals (default: 15 mins.)
- Demand calculation methods: Sliding block/fixed block
- Calculates the max. demand value/time in each tariff period

### Sliding Block



### Fixed Block

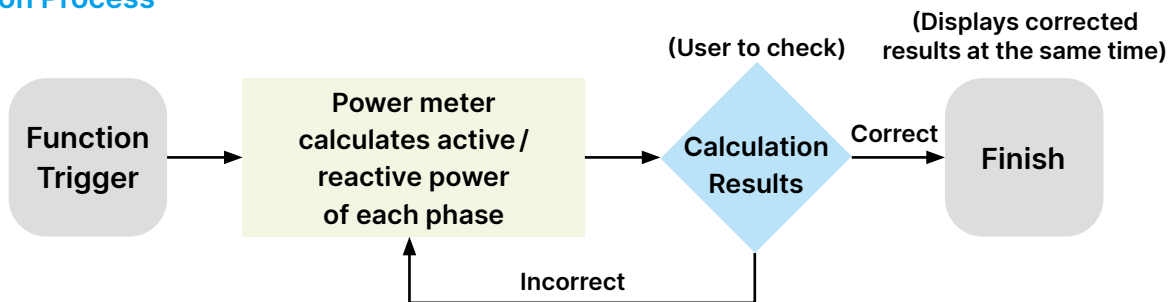


## Automatic Wiring Correction (DPM-DA530)




- Automatic wiring correction via algorithm to save manpower for on-site re-wiring
- Fixes phase wiring errors and adjusts power flow direction



\* Refer to product manual for function restrictions

### Operation Process



## DPM-D Series Information

Model	DPM-D532I	DPM-D533I	DPM-D520I
Product Appearance			
<b>Accuracy Class</b>			
Active Energy	IEC 62053-22 Class 0.5S	IEC 62053-22 Class 0.5S	0.5%
<b>Instantaneous Measurement</b>			
Current	●	●	●
Voltage	●	●	●
Frequency	●	●	●
Active, Reactive and Apparent Power	●	●	●
Power Factor	●	●	●
Active, Reactive and Apparent Energy	●	●	●
<b>Current Measurement</b>			
Direct Measurement (Current Range)	63 A	63 A	63 A
<b>Demand Value</b>			
Current	●	●	●
Power	●	●	●
Calculation Mode	Sliding/Fixed Block	Sliding/Fixed Block	Fixed Block
<b>Power Quality Analysis</b>			
Current/Voltage Unbalance	●	●	●
Total Harmonic Distortion (Current/Voltage)	●	●	●
Individual Current/Voltage Harmonics	31 <sup>st</sup>	31 <sup>st</sup>	31 <sup>st</sup>
<b>Advanced Function</b>			
Max./Min. Instantaneous Values with Timestamp	●	●	●
Alarm Function	●	●	●
Alarm Condition	29	29	29
Alarm History	●	●	●
Data Logs	●	●	●
User-Defined Modbus Address	35	35	35
Monthly Energy Usage	●	●	●
Multi-Tariff (Section Number)	8	8	8
<b>I/O</b>			
Digital Input	2	2	
Digital Output	2	2	
<b>Communication</b>			
RS-485	●	●	●
Modbus	RTU/ASCII	RTU/ASCII	RTU/ASCII

Model	DPM-DA530	DPM-DA510	DPM-D510
Product Appearance			
<b>Accuracy Class</b>			
Active Energy	0.5%	0.5%	IEC 62053-22 Class 0.5S
<b>Instantaneous Measurement</b>			
Current	●	●	●
Voltage	●	●	●
Frequency	●	●	●
Active, Reactive and Apparent Power	●	●	●
Power Factor	●	●	●
Active, Reactive and Apparent Energy	●	●	●
<b>Current Measurement</b>			
Via External CT (Current Range)	1A/5A	1A/5A	1A/5A
<b>Demand Value</b>			
Current	●		
Power	●		
Calculation Mode	Sliding / Fixed Block		
<b>Power Quality Analysis</b>			
Current / Voltage Unbalance	●		
Total Harmonic Distortion (Current / Voltage)	●		
<b>Advanced Function</b>			
Max. / Min. Instantaneous Values with Timestamp	●		
Alarm Function	●		
Alarm Condition	16		
Alarm Logs	●		
Data Logs	●		
User-Defined Modbus Address	20		
Multi-Tariff (Section number)	8		
Auto Wiring Correction	●		
CO <sub>2</sub> Emission	●		
<b>I/O</b>			
Digital Output	1 (kWH only)	1 (kWH only)	
<b>Communication</b>			
RS-485	●	●	●
Modbus	RTU	RTU	RTU

# Technical Specifications

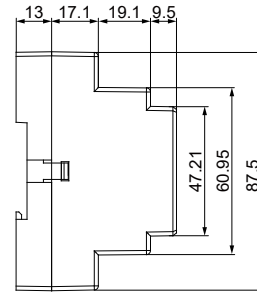
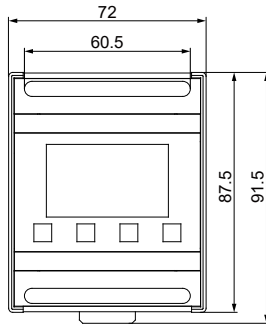
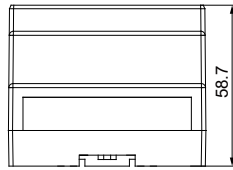
Model	DPM-D532I	DPM-D533I	DPM-D520I
<b>Measurement Accuracy</b>			
Current	± 0.5%		± 0.5%
Voltage	± 0.5%		± 0.5%
Active Energy	IEC 62053-22 Class 0.5S		± 0.5%
Reactive Energy	± 1%		± 1%
Apparent Energy	± 2%		± 2%
Active Power	± 0.5%		± 0.5%
Reactive Power	± 1%		± 1%
Apparent Power	± 2%		± 2%
Power Factor	± 0.5%		± 0.5%
Frequency	± 0.5%		± 0.5%
<b>Input Characteristics</b>			
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W		1P2W, 1P3W, 3P3W, 3P4W
Voltage	138~480V (L-L) 80~277V (L-N)	35~690V <sub>AC</sub> (L-L) 20~400V <sub>AC</sub> (L-N)	35~690V <sub>AC</sub> (L-L) 20~400V <sub>AC</sub> (L-N)
Current	63A		63A
Frequency	45~70Hz		45~70Hz
Control Power	N/A (Integrated in voltage input, Max.Power Consumption 4.6W)	DC: 12~60V (Max.Power Consumption 4.6W)	AC: 80~265V (Max.Power Consumption 4.6W); DC: 100~300V
<b>Digital Input</b>			
On Voltage	11~40V <sub>DC</sub>		
Off Voltage	0~4V <sub>DC</sub>		
Input Current	≤ 8mA		
Input Resistance	3kΩ		
Maximum Frequency	200Hz		
Isolation	5kV rms		
<b>Digital Output</b>			
Max Load Voltage	40V <sub>DC</sub>		
Max Load Current	20mA		
On Resistance	50Ω max		
Frequency for Digital Output	100Hz max		
Pulse Width for Digital Output	50% duty cycle		
Isolation	5kV rms		
<b>Data Record</b>			
Max. / Min Log	●		●
Alarm Status & Timestamp	●		●
Alarm Counting	●		●
Alarm History Record	500		500
Data Logging	Up to 17 parameters with configurable interval & duration (e.g. 17 parameters for 30 days at 1 minute interval)		Up to 17 parameters with configurable interval & duration (e.g. 17 parameters for 30 days at 1 minute interval)
Customizable Data Logs	●		●
<b>Communication</b>			
Protocol (Interface)	Modbus RTU / ASCII (RS-485)		Modbus RTU / ASCII (RS-485)
<b>Mechanical Characteristics</b>			
IP Rating - Meter Body	IP20		IP20
Dimensions (W x H x D, mm)	130 x 90 x 65.8		126 x 90 x 67.4
Weight (g)	600		600
<b>Environmental Characteristics</b>			
Operating Temperature	-30~+70°C		-20~+60°C
Storage Temperature	-40~+80°C		-30~+70°C
Relative Humidity	~95% RH		
Altitude	Below 2,000 meters		
<b>Electromagnetic Compatibility</b>			
Electrostatic Discharge	IEC 61000-4-2		
Immunity to Radiated Fields	IEC 61000-4-3		
Immunity to Fast Transients	IEC 61000-4-4		
Immunity to Impulse Waves	IEC 61000-4-5		
Conducted Immunity	IEC 61000-4-6		
Immunity to Magnetic Fields	IEC 61000-4-8		
Immunity to Voltage Dips	IEC 61000-4-11		
Radiated Emissions	FCC Part 15 EN 55011 Class A		
Conducted Emissions	FCC Part 15 EN 55011 Class A		
Harmonics Emissions	IEC 61000-3-2		
Flicker Emissions	IEC 61000-3-3		
<b>Certification</b>			
Safety	UL / CE		CE / RCM
Accuracy	IEC 62053-22		CMA



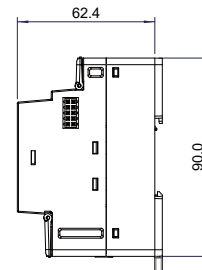
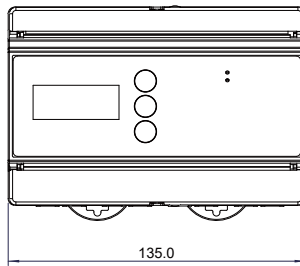
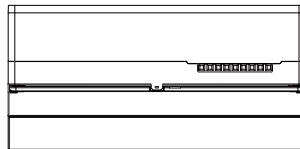
Model	DPM-DA530	DPM-DA510	DPM-D510
<b>Measurement Accuracy</b>			
Current		± 0.5%	± 0.5%
Voltage		± 0.5%	± 0.5%
Active Energy		± 0.5%	IEC 62053-22 Class 0.5S
Reactive Energy		± 2%	± 2%
Apparent Energy		± 2%	± 2%
Active Power		± 0.5%	± 0.5%
Reactive Power		± 2%	± 2%
Apparent Power		± 2%	± 2%
Power Factor		± 0.5%	± 0.5%
Frequency		± 0.5%	± 1%
<b>Input Characteristics</b>			
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W		1P2W, 1P3W, 3P3W, 3P4W
Voltage	35 ~ 600 V <sub>AC</sub> (L-L) 20 ~ 350 V <sub>AC</sub> (L-N)		35 ~ 690 V <sub>AC</sub> (L-L) 20 ~ 400 V <sub>AC</sub> (L-N)
Current	1A/5A		1A/5A
Frequency	45 ~ 65 Hz		50/60 Hz
Control Power	AC: 100 ~ 240 V (Max.Power Consumption 3W); DC: 100 ~ 250 V		AC: 100 ~ 240 V (Max.Power Consumption 4.6 W)
<b>Digital Output</b>			
Max Load Voltage	40 V <sub>DC</sub>		
Max Load Current	50 mA		
Frequency for Digital Output	1 kHz max		
Pulse Width for Digital Output	50% duty cycle		
Isolation	2.5 kV rms		
<b>Data Record</b>			
Max. / Min Log	●		
Alarm Status & Timestamp	●		
Alarm Counting	●		
Alarm History Record	16		
Data Logging	Up to 50 parameters with configurable interval & duration (e.g. 7 parameters for 30 days at 1 minute interval)		
Customizable Data Logs	●		
<b>Communication</b>			
Protocol (Interface)	Modbus RTU (RS-485)		Modbus RTU (RS-485)
<b>Mechanical Characteristics</b>			
IP Rating - Meter Body	IP20		IP20
Dimensions (W x H x D, mm)	72 x 87.5 x 58.7		90 x 90 x 66.7
Weight (g)	195		350
<b>Environmental Characteristics</b>			
Operating Temperature	0 ~ +60°C		-20 ~ +60°C
Storage Temperature	-10 ~ +70°C		-30 ~ +70°C
Relative Humidity	~ 95% RH		
Altitude	Below 2,000 meters		
<b>Electromagnetic Compatibility</b>			
Electrostatic Discharge	IEC 61000-4-2		
Immunity to Radiated Fields	IEC 61000-4-3		
Immunity to Fast Transients	IEC 61000-4-4		
Immunity to Impulse Waves	IEC 61000-4-5		
Conducted Immunity	IEC 61000-4-6		
Immunity to Magnetic Fields	IEC 61000-4-8		
Immunity to Voltage Dips	IEC 61000-4-11		
Radiated Emissions	FCC Part 15 EN 55011 Class A		
Conducted Emissions	FCC Part 15 EN 55011 Class A		
Harmonics Emissions	IEC 61000-3-2		
Flicker Emissions	IEC 61000-3-3		
<b>Certification</b>			
Safety	CE		UL / CE
Accuracy			IEC 62053-22

# Dimensions

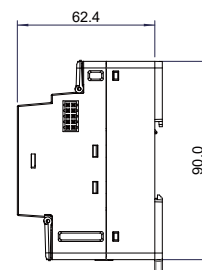
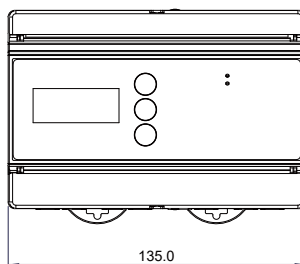
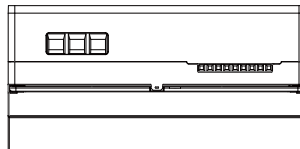
DPM-DA530  
DPM-DA510



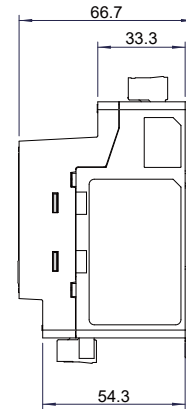
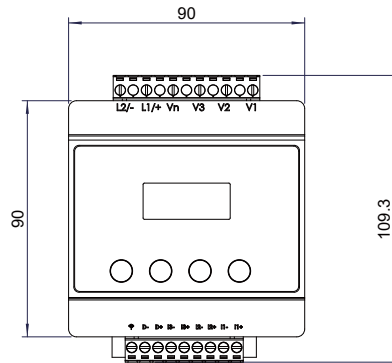
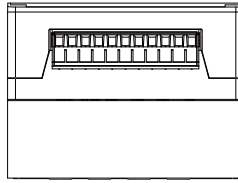
DPM-D532I



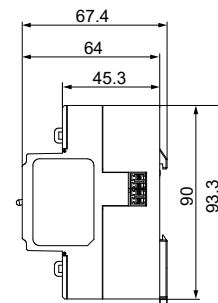
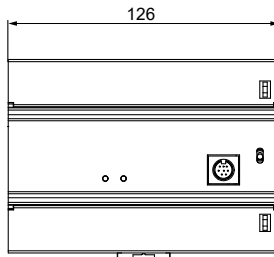
DPM-D533I



DPM-D510



DPM-D520I



# Multi-loop Type DPM-M Series

- Multiple and selective circuit monitoring reduces the use of power meters in large-scale areas
- Suitable for applications with lots of power circuits to save cost
- AC/DC measurement



## Applications

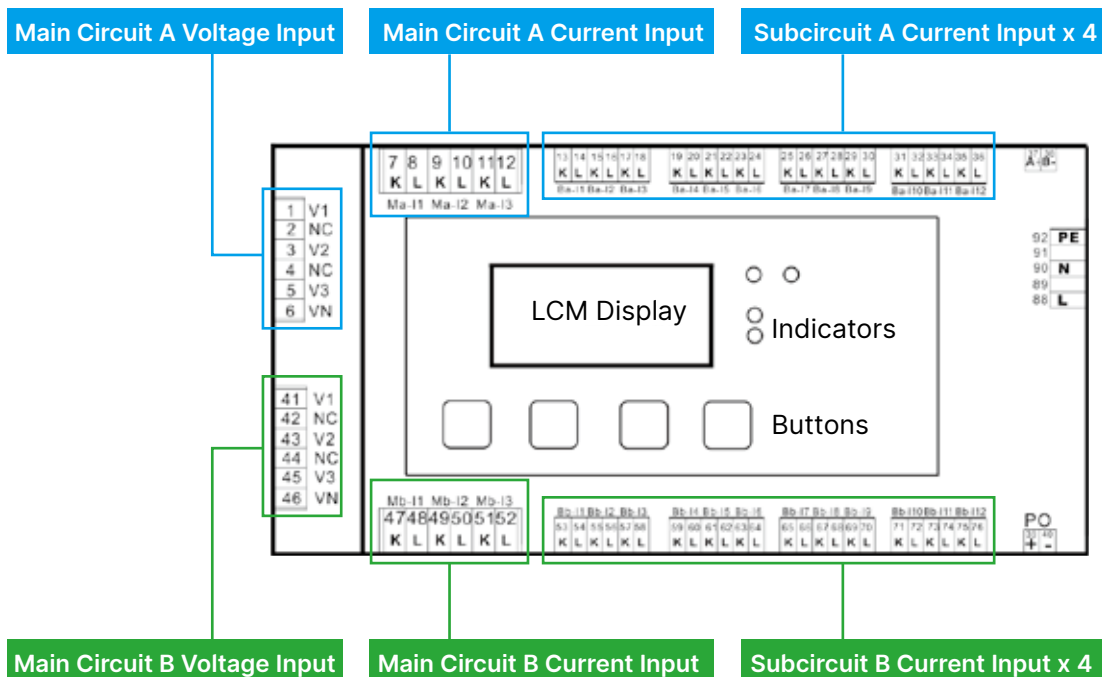
Shopping mall | Dormitory | Telecommunication System

## Features

### Scalable Multi-Loop Configuration (DPM-MA3222)

- Dual main circuits with isolation for connection to different power systems
- Each main circuit connects 4 subcircuits; configures a total of 8 circuits (three-phase) or 24 circuits (single-phase)
- Subcircuit can be set to three-phase, single-phase, or three-phase & single-phase modes

Multi-loop  
AC Power Meter  
DPM-MA3222



## I/O Configuration (DPM-MA3222)

- Various I/O types for control and integration with peripheral devices



I/O Type	Qty.	Functions
Relay Output (RO)	4	<ul style="list-style-type: none"> <li>• 5 A/250 V<sub>AC</sub>, 5 A/30 V<sub>DC</sub></li> <li>• Alarm linkage: Hi/Lo/Hi hold/Lo hold</li> </ul>
Digital Input (DI)	2	<ul style="list-style-type: none"> <li>• Demand calculation trigger/stop</li> <li>• Record clearing: demand, max. demand, energy, max./min. value</li> <li>• Relay homing</li> </ul>
Pulse Output (PO)	1	<ul style="list-style-type: none"> <li>• 30 V<sub>DC</sub>, 30 mA</li> <li>• Active/Reactive power output of any circuit</li> </ul>

## Multi-Loop DC Measurement (DPM-MA1121)

- Supports max. 5 DC circuits
- Suitable for telecommunication, green energy, energy storage applications
- Dedicated power supply for Hall sensor (optional)

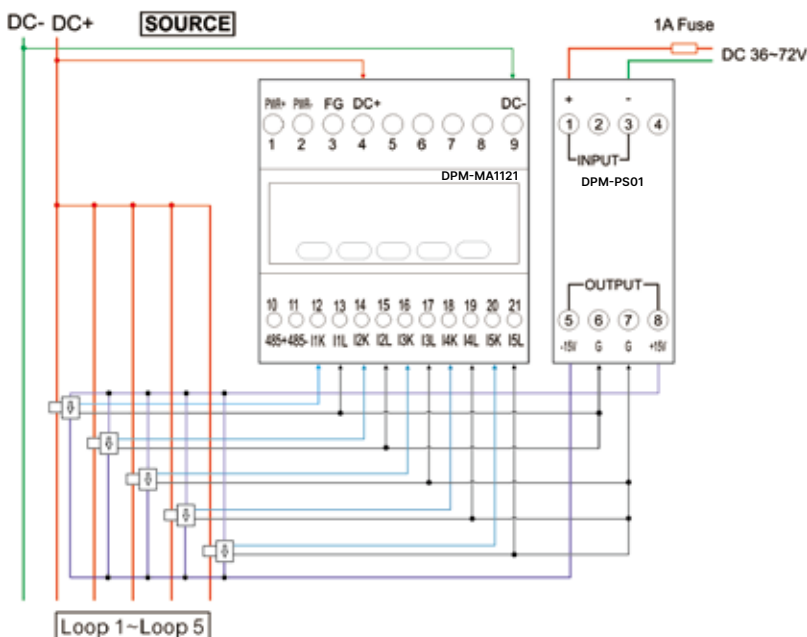
**Multi-loop DC Power Meter**  
DPM-MA1121



**Hall Current Transformer (CT) Power Supply**  
DPM-PS01



- Input voltage: 36 ~ 72 V<sub>DC</sub>
- Output voltage: ± 15V<sub>DC</sub>
- Output current: ± 100 mA





## DPM-M Series Information

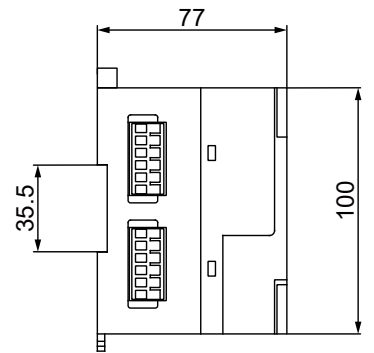
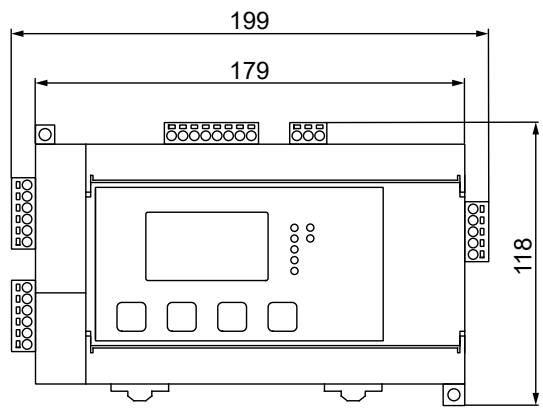
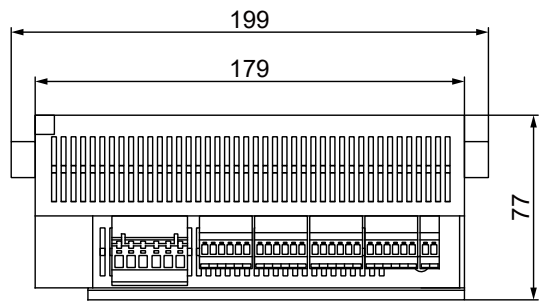
Model	DPM-MA3222	DPM-MA1121
Product Appearance		
<b>Accuracy Class</b>		
Active Energy	0.5%	0.5%
<b>Loop Number</b>		
3-Phase Measurement	8	
Single-Phase Measurement	24	5
<b>Instantaneous Measurement</b>		
Current	●	●
Voltage	●	●
Frequency	●	
Active Power	●	●
Reactive and Apparent Power	●	
Power Factor	●	
Active Energy	●	●
Reactive and Apparent Energy	●	
<b>Demand Value</b>		
Current	●	
Power	●	
Calculation Mode	Sliding / Fixed Block	
<b>Power Quality Analysis</b>		
Current / Voltage Unbalance	●	
Total Harmonic Distortion (Current / Voltage)	●	
Individual Current / Voltage Harmonics	31 <sup>st</sup>	
<b>Advanced Function</b>		
Max. / Min. Instantaneous Values with Timestamp	●	
Alarm Function	●	
Alarm Condition	48	
Data Logs	●	●
User-Defined Modbus Address	80	20
<b>I/O</b>		
Digital Input	2	
Relay	4	
Pulse Output	1	
<b>Communication</b>		
RS-485	●	●
Modbus	RTU	RTU

# Technical Specifications

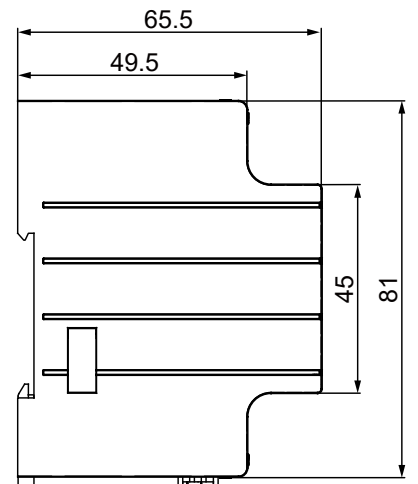
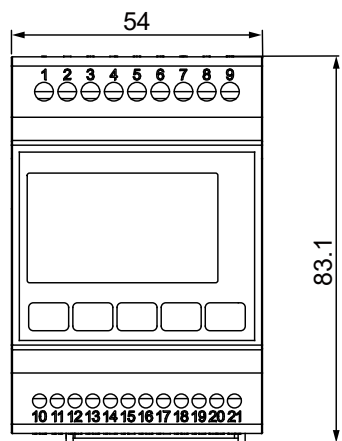
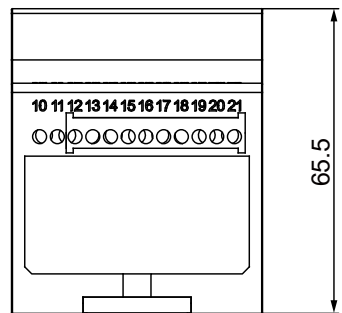
Model	DPM-MA3222	DPM-MA1121
<b>Measurement Accuracy</b>		
Current	± 0.5%	± 0.5%
Voltage	± 0.5%	± 0.5%
Active Energy	± 0.5%	± 0.5%
Reactive Energy	± 2%	N/A
Apparent Energy	± 2%	N/A
Active Power	± 0.5%	± 0.5%
Reactive Power	± 2%	N/A
Apparent Power	± 2%	N/A
Power Factor	± 0.5%	N/A
Frequency	± 0.5%	N/A
<b>Input Characteristics</b>		
Measuring System Type	1P2W, 1P3W, 3P3W, 3P4W	1P2W
Voltage	35 ~ 600 V <sub>AC</sub> (L-L) 20 ~ 400 V <sub>AC</sub> (L-N)	≤ 100 V <sub>DC</sub>
Current	Main: 5 A Subcircuit: 333 mV	± 4 V <sub>DC</sub> (Hall CT)
Frequency	45 ~ 65 Hz	
Control Power	AC: 100 ~ 240 V (Max. Power Consumption 15 W) DC: 100 ~ 250 V	DC: 20 ~ 56 V (Max. Power Consumption 4 W)
<b>Digital Input</b>		
On Voltage	0 ~ 1 V <sub>DC</sub>	
Off Voltage	10 ~ 12 V <sub>DC</sub>	
Input Current	≤ 3.5 mA	
Input Resistance	1M Ω	
Maximum Frequency	50 Hz	
Isolation	3.5 kV rms	
<b>Relay</b>		
Max Output Frequency	10 Hz	
Switching Current	250 V <sub>AC</sub> at 5.0 Amps, resistive 30 V <sub>DC</sub> at 5.0 Amps, resistive	
Isolation	2.5 kV rms	
<b>Pulse Output</b>		
Max Load Voltage	30 V <sub>DC</sub>	
Max Load Current	30 mA	
Frequency for Digital Output	40 Hz max	
Pulse width for Digital Output	50% duty cycle	
Isolation	2.5 kV rms	
<b>Data Record</b>		
Max. / Min. Log	●	●
Data Logging	Up to 86 parameters with configurable interval & duration (e.g. 40 parameters for 7 days at 1 minute interval)	Up to 21 parameters with configurable interval & duration (e.g. 20 parameters for 6 days at 1 minute interval)
Customizable Data Logs	●	●
<b>Communication</b>		
Protocol (Interface)	Modbus RTU (RS-485)	Modbus RTU (RS-485)
<b>Mechanical Characteristics</b>		
IP Rating - Meter Body	IP20	
Dimensions (WxHxD, mm)	199 x 118 x 77	54 x 81 x 65.5
Weight (g)	750	185
<b>Environmental Characteristics</b>		
Operating Temperature	0 ~ +60°C	
Storage Temperature	-10 ~ +70°C	
Relative Humidity	~ 95% RH	
Altitude	Below 2,000 meters	
<b>Electromagnetic Compatibility</b>		
Electrostatic Discharge	IEC 61000-4-2	
Immunity to Radiated Fields	IEC 61000-4-3	
Immunity to Fast Transients	IEC 61000-4-4	
Immunity to Impulse Waves	IEC 61000-4-5	
Conducted Immunity	IEC 61000-4-6	
Immunity to Magnetic Fields	IEC 61000-4-8	
Immunity to Voltage Dips	IEC 61000-4-11	
Radiated Emissions	FCC Part 15, EN 55011 Class A	
Conducted Emissions	FCC Part 15, EN 55011 Class A	
Harmonics Emissions	IEC 61000-3-2	
Flicker Emissions	IEC 61000-3-3	
<b>Certification</b>		
Safety	CE	

# Dimensions

**DPM-MA3222**



**DPM-MA1121**






# Current Transformer (CT)

- Accessories for current measurement, suitable for all types of power meters
- Proportionally transforms high circuit current into low current (or low voltage) signals for current measurement

## Applications

Matches with all types of power meters to transform high current into measurable low current (voltage)

## Product Information (Refer to Ordering Information for more details)

Type	Model	Features
<b>Solid Core CT</b> 	DCT-MC	<ul style="list-style-type: none"> <li>• Installation through the CT core</li> <li>• Applicable to new system configuration</li> </ul>
<b>Compact Split Core CT</b> 	DCT-CS	<ul style="list-style-type: none"> <li>• Compact size, easy to install/dismantle by opening the split top</li> <li>• Suitable for various applications</li> </ul>
	DCT-MV	
<b>Split Core CT</b> 	DCT-S	<ul style="list-style-type: none"> <li>• Easy to install/dismantle by opening the split top</li> <li>• Complies with safety certifications</li> </ul>

## Ordering Information

### Panel Mount Type Power Meter

Model	Functions (Refer to Technical Specs. for details)	Front Panel Dimensions (mm)	Current Measurement	I/O	Communication	Certifications		
Advanced Type DPM-C530 DPM-C530E DPM-C532	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy Class 0.5S)</li> <li>Multi-tariff energy measurement</li> <li>Demand calculation</li> <li>Data recording</li> <li>Harmonics measurement</li> <li>Multi-language display</li> </ul>	96 x 96	Through external CT (secondary side): 1A/5A	4DI/2DO	RS-485 (Modbus/BACNet MS/TP) Ethernet x 2 (Modbus)	CE/UL/RCM		
					RS-485 (Modbus/BACNet MS/TP)			
				Standard Type DPM-C520 DPM-C520W DPM-C320 DPM-C501L DPM-C502	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> <li>Harmonics measurement</li> </ul>	96 x 96	Through external CT (secondary side): 1A/5A	4DI/2RO
72 x 72	Wifi (802.11 b/g/n)							
96 x 96	RS-485 (Modbus)							
Basic Type DPM-C510 DPM-C510E	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> </ul>	96 x 96	Through external CT (secondary side): 1A/5A		4DI/2RO	Ethernet (Modbus)		CE/UL

### DIN Rail Mount Type Power Meter

Model	Functions (Refer to Technical Specs. for details)	Current Measurement	I/O	Communication	Certifications
Advanced Type DPM-D532I DPM-D533I DPM-D520I	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> <li>Multi-tariff power measurement</li> <li>Demand value calculation</li> <li>Data recording</li> <li>Harmonics measurement</li> <li>Control power: 12 ~ 60 V<sub>DC</sub> (D533I only)</li> </ul>	Direct measurement: 63A	2DI/2DO	RS-485 (Modbus)	CE/UL
			Basic Type DPM-DA510 DPM-D510		<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> </ul>
CE/UL					



## Multi-Loop Type Power Meter

Model	Functions (Refer to Technical Specs. for details)	Current Measurement	I/O	Communication	Certifications
AC Meas. DPM-MA3222	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> <li>Circuit qty.: 8 (three-phase) / 24 (single-phase)</li> <li>Data recording</li> <li>Harmonics measurement</li> </ul>	Through external CT <ul style="list-style-type: none"> <li>Main circuit: 5 A (secondary side)</li> <li>Subcircuit: 333 mV (secondary side)</li> </ul>	2DI 4RO 1PO	RS-485 (Modbus)	CE
DC Meas. DPM-MA1121	<ul style="list-style-type: none"> <li>Electrical parameters measurement (Active energy accuracy 0.5%)</li> <li>Circuit qty.: 5</li> <li>Data recording</li> </ul>	Through Hall Sensor			

## Solid Core CT

Model	Certification	Primary Current	Secondary Current	Max. Load	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)
DCT-MC010-5	-	100 A	5 A	1.5 VA	1%	Outer: 80 x 60 x 38 Inner: 20 x 30.5
DCT-MC020-5	-	200 A	5 A	3.75 VA	0.5%	
DCT-MC030-5	-	300 A	5 A	5 VA	0.5%	Outer: 98 x 74.5 x 43 Inner: 42 x 42
DCT-MC040-5	-	400 A	5 A	7.5 VA	0.5%	
DCT-MC050-5	-	500 A	5 A	5 VA	0.5%	Outer: 127 x 103 x 45 Inner: 51 x 61
DCT-MC060-5	-	600 A	5 A	10 VA	0.5%	

## Compact Split Core CT

Model	Certification	Primary Current	Secondary Current	Wiring Length	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)
DCT-CS010-5	-	100 A	5 A	1,000 mm	1%	Outer: 66.8 x 49.8 x 34.2 Inner: 23.8 x 25.2
DCT-CS020-5	-	200 A	5 A	1,000 mm	1%	
DCT-CS030-5	-	300 A	5 A	1,000 mm	1%	
DCT-CS040-5	-	400 A	5 A	1,000 mm	1%	Outer: 85 x 69 x 42.5 Inner: 36.5 x 36.5
DCT-CS050-5	-	500 A	5 A	1,000 mm	1%	
DCT-CS060-5	-	600 A	5 A	1,000 mm	1%	
DCT-MV005-3	CE	5 A	333 mV	1,200 mm	1%	Outer: 30.8 x 28.8 x 42.8 Inner: $\Phi$ 10.2
DCT-MV060-3	CE	60 A		1,200 mm	0.5%	Outer: 30.3 x 33.9 x 49 Inner: $\Phi$ 16.1
DCT-MV100-3	CE	100 A		1,200 mm	0.5%	Outer: 53.3 x 40.2 x 70 Inner: $\Phi$ 24.1
DCT-MV200-3	CE	200 A		1,200 mm	0.5%	Outer: 67 x 42.8 x 83 Inner: $\Phi$ 24.1
DCT-MV300-3	CE	300 A		1,200 mm	0.5%	
DCT-MV400-3	CE	400 A		1,200 mm	0.5%	

## Split Core CT

Model	Certification	Primary Current	Secondary Current	Max. Load	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)
DCT-S201B	UL	100 A	5 A	1.0 VA	1.0%	Outer: 90x40x110 Inner: 30x20
DCT-S211B	UL	200 A	5 A	1.0 VA	0.5%	
DCT-S221B	UL	300 A	5 A	1.5 VA	0.5%	
DCT-S231B	UL	400 A	5 A	1.5 VA	0.5%	Outer: 115x37x159 Inner: 80x50
DCT-S241B	UL	500 A	5 A	2.5 VA	0.5%	
DCT-S251B	UL	600 A	5 A	2.5 VA	0.5%	
DCT-S261B	UL	750 A	5 A	2.5 VA	0.5%	
DCT-S2C1B	UL	800 A	5 A	3.75 VA	0.5%	
DCT-S271B	UL	1,000 A	5 A	5 VA	0.5%	
DCT-S301C	CE	100 A	5 A	1.5VA	1.0%	Outer: 89x40x115 Inner: 32x21
DCT-S211C	CE	200 A	5 A	1.0VA	0.5%	
DCT-S221C	CE	300 A	5 A	1.5 VA	0.5%	
DCT-S231C	CE	400 A	5 A	2.5 VA	0.5%	
DCT-S241C	CE	500 A	5 A	2.5 VA	0.5%	Outer: 116x51x145 Inner: 80x50
DCT-S251C	CE	600 A	5 A	2.5 VA	0.5%	
DCT-S261C	CE	750 A	5 A	2.5 VA	0.5%	
DCT-S271C	CE	1,000 A	5 A	5 VA	0.5%	
DCT-S281C	CE	1,500 A	5 A	7.5 VA	0.5%	Outer: 146x51.6x196 Inner: 80x122
DCT-S291C	CE	2,000 A	5 A	10 VA	0.5%	Outer: 186x67x250 Inner: 81x160.5
DCT-S2A1C	CE	2,500 A	5 A	15 VA	0.5%	
DCT-S2B1C	CE	3,000 A	5 A	20 VA	0.5%	

## Hall Sensor Power Supply

Model	Input Voltage		Output		Ripple & Noise (mVp-p, Typ./Max.)	Efficiency (% , @ Full load)	Dimensions (mm)
	Normal (V <sub>DC</sub> , Range)	Max. (V <sub>DC</sub> )	Voltage (V <sub>DC</sub> )	Current (mA, Max./Min.)			
DPM-PS01	48 (36~72)	80	± 15	± 100/± 5	40/75	80	65.5x26x81





Smarter. Greener. Together.

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