

Microprocessor Multifunction Power Meter

MODEL DMMP

Features:

- Applicable Standard: Answer for DIN-IEC 688
- Display at one time: 3V、3A、W、Var、WH、VarH、PF、Hz、Harmonics、Demand
- Measurable 1 ϕ 2W、1 ϕ 3W、3 ϕ 3W、3 ϕ 4W
- Harmonics Analyze Voltage, Current for 31 times, Display for 15 times.
- Demand Management & Demand Control
- 10 Years Power-Off Memory for 5000 data
- With RS-485 Modbus Output



MODEL : DMMP — — — — — — — — —
 DMMPH — — — — — — — — — Harmonics
 DMMPD — — — — — — — — — Demand

INPUT		INPUT/C		INPUT/F		OUTPUT		Setting Function		AUX.POWER	
A	55 ~ 300V	A	1A	A	50Hz	O	10 Units Analog, 1 Unit Impulse	A	4 Alarm Joining	C	DC 24V
C	300 ~ 600V	B	5A	B	60Hz	P	Print Function	N	NONE	F	AC 85~265V DC 100~300V
Y	SPECIAL	Y	SPECIAL	Y	SPECIAL	Q	Full Function			Y	SPECIAL
						N	NONE				
						Y	SPECIAL				

3 ϕ 4 ω Voltage Line-Neutral

Specifications :

INPUT:

- Input Frequency : 45Hz ~ 70Hz.
 Input Burden : Voltage 0.25VA/Unit, Current 0.25VA/Unit, as 50/60Hz..
 Input Range : Voltage: 55~300V AC, 45~65Hz or 300~600V AC, 45~65Hz
 Current: 110% for rating.
 Input Over : Voltage: 200% Continuous, 300% of rating for 10 Sec.
 Current: 400% Continuous, 2000% of rating for 10 Sec., 8000% of rating for 0.5 Sec.

OUTPUT:

- DC Current:** 0 ~ 20 mA DC
DC Voltage: 0 ~ 10 V DC
Load resistance drive: output drive 10 VDC maximum
Load resistance drive: output drive 5 mA maximum

Output	Load Resistance
0 ~ 20 mA :	500 Ω
4 ~ 20 mA :	500 Ω

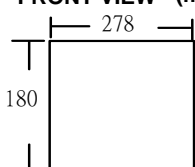
Output	Load Resistance
0 ~ 5 V :	1 K Ω
1 ~ 5 V :	1 K Ω
0 ~ 10 V :	2 K Ω

- Output Protection : Without Damage for Output Open or Short Circuit.
 Output Response Time : \leq 1 Sec.
 Digital Output Load : RS-485 Output, Isolate Type with MODBUS RTU mode., 4800, 9600, 19200 Baud Rate, User Selectable.

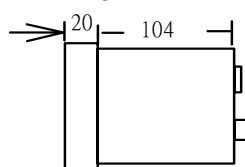
INSTALLATION & PERFORMANCE:

- Accuracy** : V、A、W、 = \pm 0.2% Fs+2C at 23 $^{\circ}$ C \pm 3 $^{\circ}$ C. Var、WH、VarH、PF = \pm 0.4%RD+2C ,
 Hz = \pm 0.02% Fs+1C at 23 $^{\circ}$ C \pm 3 $^{\circ}$ C., THD = \pm 2%
Display Range : V、A、W、Var、PF、Hz, 0.56" Super Red LED 4 Digits = 0~9999 Counts, PT、CT User Selectable.
 WH ; VarH, 0.36" Super Red LED, 7 Digits = 0~9999999 Counts.
Response Time : \leq 1 Sec.
Memory Capacity : 10 Years Power Off Memory for 5000 Data.
Dielectric Strength : AC 2.8KV / Min, Input/Power/Case, DIN IEC 688.
Impulse : 6 KV 1.2x50 μ S, ANSI C37.90a / 1983.DIN IEC 1000.4- 5, 4 - 4.
Stability : \leq 0.2%/Year.
Temperature Coefficient : \leq 100ppm / $^{\circ}$ C From 0 ~ 60 $^{\circ}$ C,
Operation Condition : -10 $^{\circ}$ C ~ +55 $^{\circ}$ C 20 ~ 95% RH Non-Condensed.
Storage Condition : -40 $^{\circ}$ C ~ +75 $^{\circ}$ C 20 ~ 95% RH Non-Condensed.
Power Supply : AC 85~265V and DC 100~300V of Power can be withstood.
Mounting : Panel Flush Mounting.

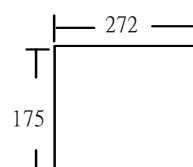
FRONT VIEW (mm)



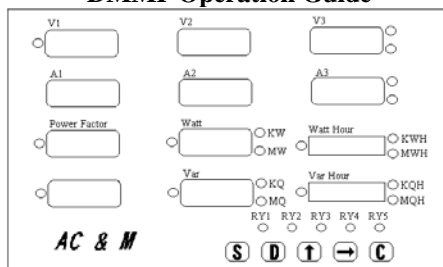
SIDE VIEW



CUT OUT



DMMP Operation Guide



S : SELECT

↑ : UP (change number)

D : DATA

→ : RIGHT (change digit)

Press “S” to enter 01 display, press “D” to enter 01 set point level.

1. After into set point, press “↑ & →” to change set point level.
2. Press “S” can exit from present set point level, select 01 , 03 , …… , 09 conditions directly.
3. After into set point, press “D”, the orders are 01~set point level~02~set point level~03~set point level~……09
4. Under normal condition, press “D” to enter clear condition.
5. Under normal condition, press“ ↑ ”or “→” to enter page division display, “↑” to cross prior (…→7→6→…→1) , “→” to cross later (1→2→…→1→…)

Function	Button	Range & Instruction of Functions
01 PW	→	Among 3P4W~1P2W~1P3W~3P3W cyclic switch (34W mark change)
02 PT	→ ↑	Show1 PT equals to one multiple (enter 02 condition, press “→” to display)
03 U-unit	→	Unit mark of “V” , “KV” will vary.
04 U-dot	→	The decimal of first V line will vary.
05 CT	→ ↑	Show 1 CT equals to one multiple (enter 05 condition , press “→” to display)
06 A-dot	→	The decimal of second Aline will vary.
07 W-unit	→	Unit mark of “KW” - “MW” 、 “KVar” - “MVar” will vary.
08 W-dot	→	The decimal of second & third W 、 Q line will vary.
09 Special function	→ ↑	00-99 press “D” again to enter below function.
06 Baud	→	Baud among 9600-19200-38400 -1200-2400-4800 cyclic switch.
07 Address	→ ↑	Modbus conventional address.
15 History data saving interval time	→ ↑	History data set 1-999 minutes per interval to save data. Save one-hour, set to 060 minutes.
16 Set time	→ ↑	Calibrate present time
17 Set demand interval time	→ ↑	Set basic time (1-60 min)
18 Set demand W/VA	→	Select demand unit as VA or W
19 Clear printing data	→ ↑	Key in password
20 Set W, V analogy output	→ ↑	0~9999
25 Set target demand	→ ↑	0~9999
26 Set maximum demand	→ ↑	0~9999
28 Clear maximum demand	→ ↑ D	Key in correct password, enter D to clean history maximum demand and occurred time.
50 Alarm Function		Please see alarm function setting description
51 Alarm / Demand Control switch	→ ↑ D	Press “D” to assure, “S” to cancel setting, “→ or ↑” to change setting
87 Change password	→ ↑	Key in old password and new codes twice (except zero)
99 Save altered data	→ ↑ D	Key in correct password to save