



An ISO 9001:2000 Company

# Microprocessor Watt / Watthour & Var / Varhour Digital Meter MODEL DMWWH / DMQQH

## FEATURES :

- Output / Display Range User Selectable
- Dual Aux. Power 110/220V AC
- WH/VarH Output 0 ~ 200 Pulses User Selectable
- Analog / Digital RS485 and Pulse Output
- 10 Years Power-OFF Memory for WH and VarH
- Dual Display



Ordering : DMWWH           Watt / Watthour Uni-Direction  
 DMWWH2           Watt / Watthour Bi-Direction  
 DMQQH2           Var / Varhour Bi-Direction

	Circuit	I/P Voltage	I/P Voltage	Frequency	W (VAR) O/P	WH (VARH) O/P	Aux. Power	
A	1 φ 2W	A 110V	A 1A	A 50Hz	A 0 ~ 10mA DC	A 1 Count / 1 Pulse	A AC 110/220V	
B	3 φ 3W	B 220V	B 5A	B 60Hz	B 0 ~ 20mA DC	B 1 Count / 10 Pulse	(Dual Power)	
C	3 φ 4W		C 5A	Y Other	C 4 ~ 20mA DC	C 1 Count / 100 Pulse	C DC 24V	
Y	Other		Y Other		D 0 ~ 5V DC	F RS-485	F RS-485	D DC 110V
			E 1 ~ 5V DC		N None			N None
			F RS-485	Y Other	Y Other			F AC/DC 85~265V
			N None					
			Y Other					

3 φ 4 ω Voltage Line-Neutral

## SPECIFICATIONS :

### INPUT :

- Input Range : Normal Voltage 110V, Effective Range 85 ~ 150V. Normal Voltage 220V, Effective Range 160 ~ 300V AC.  
 Normal Current 5A, Effective Range 0 ~ 7.5A. Normal Current 1A, Effective Range 0~1.5A.
- Input Burden : Voltage 0.25VA/Unit, Current 0.25VA/Unit, at 60Hz.
- Input Frequency : 50Hz ± 5Hz, 60Hz ± 5Hz.
- Input Over : Normal AC 5A, Current Over 15A Continuous; 50A 10 Sec/Hour; 400A 0.5 Sec/Hour.  
 Normal AC 110V, Voltage Over 500V Continuous; 1200V 10 Sec/Hour.

### OUTPUT :

DC Current : 0 - 20 mA DC

Load Resistance Drive : Output drive 10 VDC maximum

Output	Load Resistance
0 - 10 mA :	1000 Ω
0 - 20 mA :	500 Ω
4 - 20 mA :	500 Ω

DC Voltage : 0 - 10 V DC

Load Resistance Drive : Output drive 5mA maximum

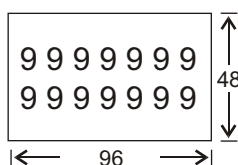
Output	Load Resistance
0 - 5 V :	1 KΩ
1 - 5 V :	1 KΩ
0 - 10 V :	2 KΩ

- Output Protection : Without Damage for Output Open or Short Circuit.
- Output Response Time : Watt and Var ≤ 1 Sec.
- Digital output Load : RS-485 Output, 1200,2400,4800, 9600, 19200 Baud Rate, User Selectable.
- Display Range : Dual Display  
 Up-Row Display Watt or Var, 0.36" Super Rate Led 4-1/2, 5 digits, ± 19999 Counts. Display range user selectable.  
 Down-Row Display Watthour or Varhour, 0.36" Super Rate LED, 7 Digits, ± 9999999 Counts.
- Output of WH or VarH : Open Collect Type, Output speed 0 ~ 100 Pulses User Selectable.  
 Effective Range : 5 ~ 30V DC, 5 ~ 100mA.

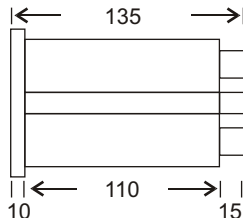
## INSTALLATION & PERFORMANCE :

- Accuracy : 0.2% RD/PF+0.02%FS at 23°C ± 3°C.
- Dielectric Strength : 2.6KV AC / Min Between Input / Power / Case.
- Impulse : 4 KV 1.2x50 μS, ANSI C37.90a / 1983.DIN IEC 255 - 4.
- Stability : ≤ 0.2% Year.
- Temperature Coefficient : ≤ 100ppm / °C From 0 ~ 60°C.
- Operating Condition : -10°C ~ + 55°C 20 ~ 95% RH Non-Condensed.
- Storage Condition : -40°C ~ + 75°C 20 ~ 95% RH Non-Condensed.
- Power Supply : AC or DC ± 20%, 50 / 60Hz.
- Outline Dimension : 1/8 DIN 96(W) X 48(H) X 135(D) mm.

FRONT VIEW (mm)



SIDE VIEW



CUT OUT

