

DER EE[®]

D. P. M. (MICROPROCESS)



WATT CONTROLLER METER

ISO 9001

DE - S12MW 1 ϕ 2W Watt Meter Relay

Features

- True RMS V/A
- CT and PT rate free setting(1~999.9)
- Input / Output / Power is isolated
- RS-485 interface (Option)
- ABS fire-retardant case(94-V0)
- DIN case 96 x48mm

Specifications

Display : Red LED 0.4" high
Green LED 0.3" high

Max. Display : 4 Digits

Over range Indication : " O.L "

Conversion Rate : 1/sec.

Isolation : Input/Output/Power

Memory : EEPROM

Accuracy : $\pm 0.25\%$ FS. ± 2 digit ($23 \pm 5^\circ\text{C}$)

Operating Temp. : $0\sim 50^\circ\text{C}$ / Below 80%R.H.
(No Condensation)

Storage Temp. : $-10\sim 60^\circ\text{C}$ / Below 70% R.H.
(No Condensation)

Power Supply : AC 115/230V $\pm 10\%$, 50/60Hz
Option : DC 24, 48, 120V $\pm 20\%$

Power Consumption : Approx. 4VA

Weight : Approx.550g

Dielectric Strength : AC 2000V/1min (Input/Power)

Insulation Resistance : More than 100M Ω at 500VDC

Dimensions : 96(W) x48(H) x144(D)mm

Panel Cut-Out : 91.5(W) x44(H)mm

Input

Min.Input : Voltage 5% of range
Current 1% of range

Voltage : AC 8~150V
AC 15~300V
AC 30~600V

Current : AC 0.01~1A , AC 0.05~5A , AC 0.1~10A

Burden : Voltage $\leq 0.1\text{VA}$
Current $\leq 0.2\text{VA}$

Watt : Corresponding to V xA

Power Factor : 0.001 to 1.000

Frequency : 40~100Hz

Control Output

Output Relay x2

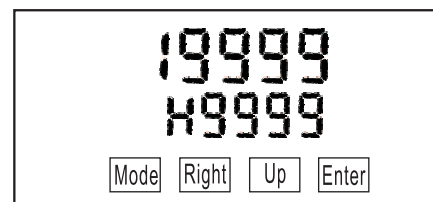
Relay Contact Capacity AC 250V , 1A
DC 30V , 2A

Comparative Condition

Indication HI set point \rightarrow HI LED on .

LO set point Indication \rightarrow LO LED on .

RS-485 Interface (Option)



Address : 1 ~ FF

Baudrate : 19200,9600,4800,2400,1200

Frame : (1)N.8.2

(2)E.8.1

(3)O.8.1

Protocol : Modbus RTU Mode

Order Code

DE - S12MW - - - -

Input V

- 1 : 8~150V
- 2 : 15~300V
- 3 : 30~600V
- Y : Option

Input A

- 1 : 0.01~1A
- 2 : 0.05~5A
- 3 : 0.1~10A
- Y : Option

Power Supply

- 1 : AC 115/230V $\pm 10\%$, 50/60Hz
- Y : Option (DC 24V, 48V, 120V $\pm 20\%$)

Output

- N : None
- 1 : RS-485

Code Number

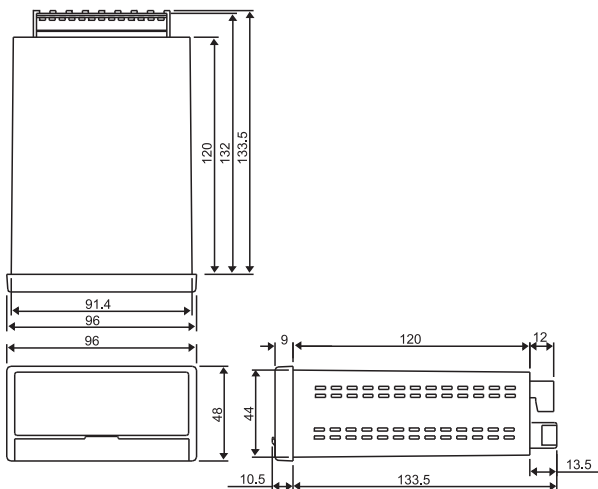
Example : DE - S12MW - 22 - 1 - 1

Input : AC 15~300V , 0.05~5A

Power Supply : AC 115/230V $\pm 10\%$, 50/60Hz

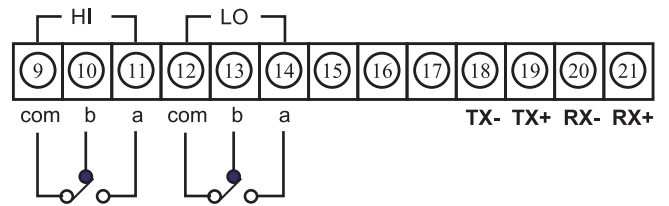
Output : RS-485

Dimensions

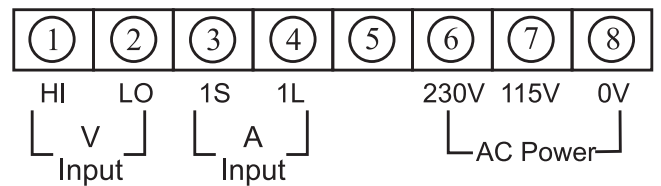


Connection Diagram

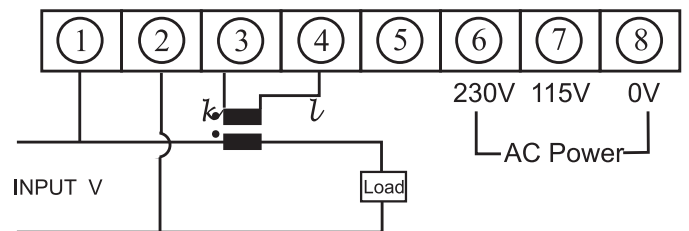
Upper



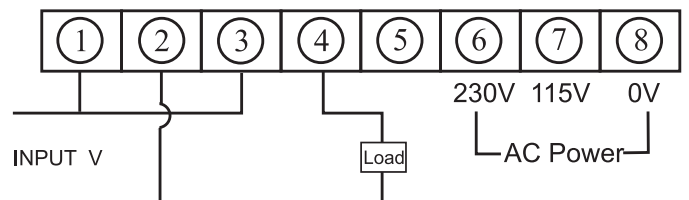
Lower



Lower



Lower



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Appearance and specification may be revised if needed without notice in prior.