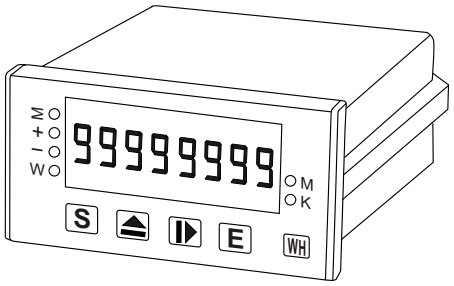
MICROPROCESS WATT/VAR HOUR METER

MODEL
S2-800WHT
S2-800RHT

FEATURES

- 8 digits display: 99999999
- Accuracy:± 0.3%
- Programmable process rate monitor
- Easy-to-wire, screw-type terminals
- Input/Output/Power/Case is isolated
- Outside dimension is DIN standard (96x48mm)



■ SPECIFICATION

• INPUT

Circuit	AC Input		Display
	Voltage	Ampere	
Single Phase	110V	5A . 1A	99999999 (Auto-Cal. Decimal point)
	220V		
3-Phase, 3-Wire	110V		
	220V		
3-Phase, 4-Wire	$\sqrt{3}$ 110V/110V		
	$\sqrt{3}$ 220V/220V		

• OUTPUT

Per 1KWH or 1KVARH		Pulse	Open Collect	SPST Relay Contacts
	1 counts	DC 5V, 5mA	DC 30V, 100mA	AC 110V, 0.5A DC 24V, 1A
	10 counts			
	100 counts			

• COMMUNICATION

Interface RS485
Protocol ..... MODBUS, RTU framing
Baud rate ..... 1200 ~ 38400 programmable
Address range ..... 1 ~ 255 programmable
Data format N82, O81, E81, N81
Number of meter ..... up to 32 on standard RS485
Display ..... 9.1mm (0.36") H, red LED
WATT/VAR Max. Display ..... 4 digits (9999)
(Temporary stay around 2 minutes)
Max. Input over capability ..... Amp. 3 x rated continuous
10 x rated 30 seconds
50 x rated 1 second
Volt. 750V continuous
Accuracy ..... ± 0.3% F.S. ± 1 digit, PF ≥ 0.5
(Option: Depending on actual measuring)
Input burden ..... Volt. input ≤ 0.5 VA/Phase
Amp. Input ≤ 0.1 VA/Phase
Input frequency range ..... 45 ~ 70Hz
Aux. Power source ..... AC 110V or 220V ±10%, 50/60Hz
DC 24V, 48V, 110V ± 15%
Power consumption ..... ≤ AC 4.5VA
Operating temperature range ..... ≤ 0 ~ 60°C
Storage temperature range ..... – 10 ~ 70°C
Temperature coefficient ..... ≤ 150PPM/ °C
Max. relative humidity 95%
Memory times ..... ≥ 10 years
Dielectric strength (IEC 688) ..... AC 2KV/1 minute
Input to power terminute
AC 3KV/1 minute
All terminals to case
Impulse (IEC 255-4) ..... Common mode 1.2 x 50μS 4 KV
Connection diagram ..... See next page, Figure B.
Dimensions ..... See next page, Figure 02.

■ ORDERING INFORMATION

S2-800WHT
S2-800RHT – □ □ □ □ □

Model

Circuit
12: single phase, 2-wire
13: single phase, 3-wire
33: 3-phase, 3-wire
34: 3-phase, 4-wire

Input Voltage
1: AC 110V
2: AC 220V
3: AC $\sqrt{3}$ 110V/110V
4: AC $\sqrt{3}$ 220V/220V
0: Option

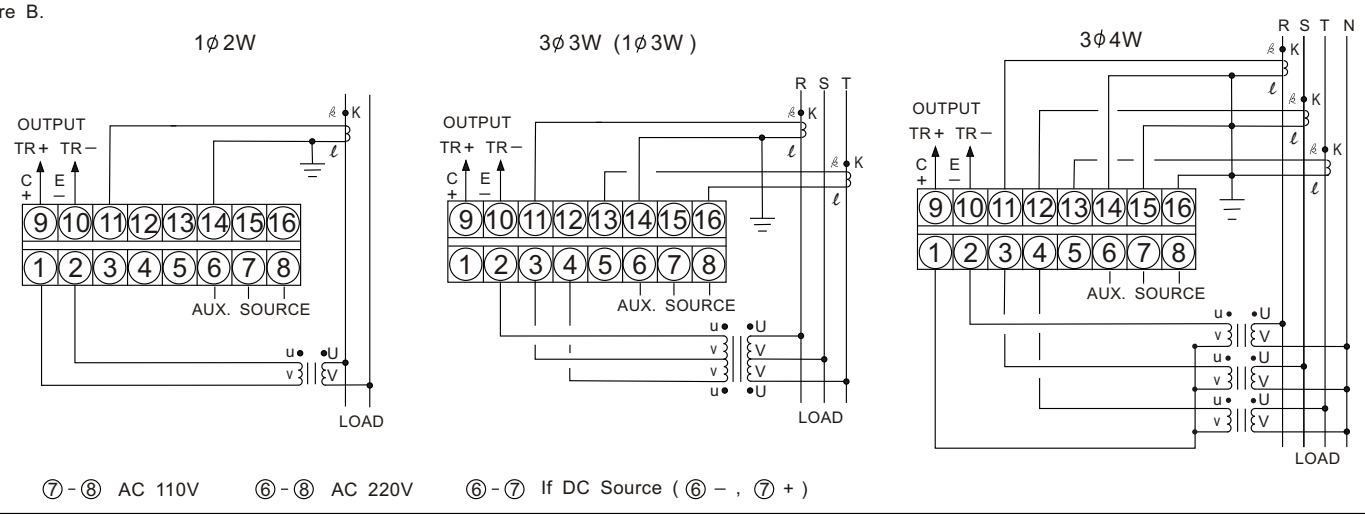
Input Current
A: 5A
B: 1A
0: Option

Output Range
P: Pulse
C: Open, Collect
R: Relay
RS: RS485

Aux. Power Supply
1: AC 110V/220V
A: DC 110V
B: DC 48V
C: DC 24V
0: Option

■ CONNECTION DIAGRAMS

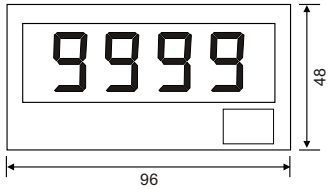
Figure B.

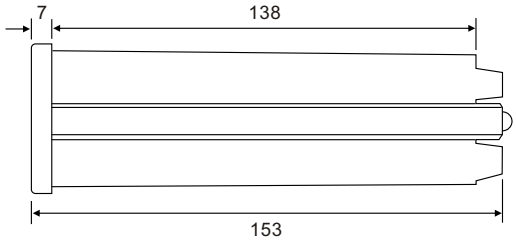


⑦-⑧ AC 110V ⑥-⑧ AC 220V ⑥-⑦ If DC Source (⑥ − , ⑦ +)

■ DIMENSIONS (Measurements in mm)

Figure 02.





● **PANEL CUT-OUT**