MYPIN

DW8A series of Power meter

Instruction Manual

Thanks a lot for selecting the products!

Before operating this instrument, please carefully read this manual and fully understand its contents. If have problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice

■ Warning

Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.

Do not wire when the power is on. Do not turn on the power supply when cleaning this instrument.

Do not disassemble, repair or modify the instrument. This may cause electrical shock, fire or malfunction

Use this instrument in the scope of its specifications. Otherwise fire or malfunction may result.

The use life of the output relay is quite different according to is capacity and conditions. If use out of its scope, fire or malfunction may result.

⚠ Caution

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result. The operating temperature environment should between 0 ℃(32F) to 50℃ (122F).

To avoid using this instrument in environment full of dust or caustic gas.

To avoid using this instrument in environment of strong shock or concussion.

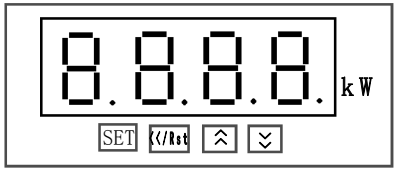
To avoid using this instrument in environment of overflow water or explosive oil.

The power supply wire should not put together with large current wire to avoid electromagnetic radiation, If it must to put together, we suggest to use the individual pipe.

★ Applications

The instrument is to measure any range of AC/DC voltage or current set by user. To measure or display voltage/ampere/watt/power factor/frequency/energy consumption. Up to 3 alarm output. The instrument is widely applied to power system, factory power distribution, building automation etc. With RS485 MODBUS protocol.

■ Name of parts



DW8A

PV: Main measured value

SET: Set/Confirm key

⟨⟨/Rst: Shift/Clear key

⩓: Up key

⩔: Down key

■ Models

DW□□-□□□ — IN2 input signals: AV, AA, DA, DV for option

IN1 input signals: AV, AA, DA, DV for option

Communication Blank:None 2: RS232 4: RS485

Size: 8:48H×96W×80L 9:96H×96W×100L

Power: Default: AC 90-260V 50/60Hz E: DC 18-30V AC/DC

DW series power meter

★Input signal selection (please mention the range when order)

Input signals	Measured range	Input impedance	Factory setting
A(AA/DA)	AC 0～5A.0～2A	P/T free set by software	0～5A
mA	0～1mA.0～10mA.4～20mA	≤150Ω	
V(AV/DV)	0～5V.0～10V.0～600V	≤200KΩ	0～600V
mV	0～10mV. 100mV	≤2MΩ	

☆ IF AC>600V, please use the instrument with P/T. IF AA> 5A, please use the instrument with C/T

■ Mounting and Sizes

★Dimensions:L48*W96*H80

★Holing: L:43.5+0.5

W:91.5+0.5

■ Specifications

Power	90-260V AC 50/60Hz or 18-30V AC/DC
Measured objects	True value, simple phases/voltage/current/Watt/Power factor/frequency/energy consumption/reactive power
Direct input range	Voltage: 0-600V Current: 0-5A or 0-10A
P/T, C/T	Free set by software
Measured frequency range	0-2.5KHz
Accuracy	Voltage:±0.2%FS±2digit
	Current:±0.2%FS±2digit
	Watt:±0.3%FS±2digit
	Power Factor:±0.3%FS±2digit
	Frequency:0-400Hz±1Hz
Communication	RS232 /RS485 MODBUS RTU protocol

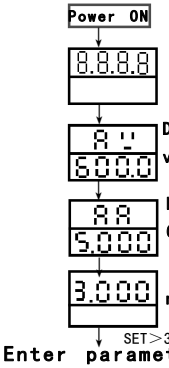
■ Parameter setting

★Press SET key for more than 3 seconds, can enter/quit from the display setting.

1. In the measuring estate, press and hold SET key > 3 seconds, enter control parameters setting menu. Press ⟨⟨/Rst key, LED flashes, press ⩔ / ⩓ key to modify, and then press SET key to confirm. Press SET key to read the following parameters one by one.
2. The instrument will return to the measuring estate without any operation for 25 seconds.

★Kwh clear : When it is display kwh, press ⟨⟨/Rst key for more than 2 seconds can clear the totalized Kwh value

■ Operation processes



Enter parameter setting menu

Control parameter setting

↓ SET>3S

LCK 000 Password setting, range: 0-200, LCK=000 means the parameter can be modified, LCK=010 can be read only, but not can be modified

↓ SET

CT 1.000 C/T rate setting, Range: 1.000-9999. If without C/T, the CT=1.000. If use with C/T, CT should be the rate to 5A.

↓ SET

Pt 1.000 P/T rate setting, Range: 1.000-9999. If without P/T, the PT=1.000. If use with P/T, PT should be the rate to 100V

↓ SET

AdP 0.000 Decimal point setting for current input. There are 0000, 0.000, 00.00, 000.0 for option

↓ SET

UdP 0.000 Decimal point setting for voltage input. There are 0000, 0.000, 00.00, 000.0 for option

↓ SET

dSL YO Power display setting: YO:W/KW A:A/mA U:KV/V PF:PF YOH:KWH Hz:HZ UA:VA UAr:VAR

↓ SET

d.S 0 Power units selection, YO: KW, O: W/MW, MW/W=I*V*cosφ, KW=I*V*cosφ/1000.

↓ SET

bAd 0 Bit rate setting. The factory setting is 9.6k bit/s, if need other value, please mention when order.

↓ SET

Add 000 Communication address, setting range: 0-255

↓ SET

Return LCK menu

☆When it not for analogue, it can be used as alarm output parameter PSA =0.00,PSV=0.00

■ Terminal configurations