

MYPIN

DW8 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 °C(32F) to 50°C (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.

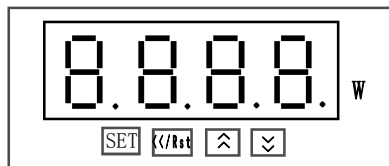
To avoid using this instrument in environment of overflow water or explosive oil.

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.

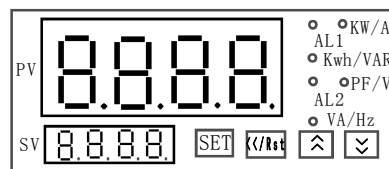
★ Applications

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.

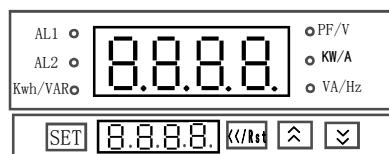
■ Name of parts



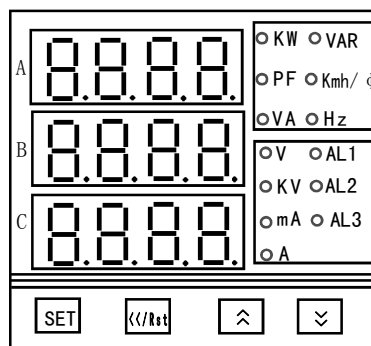
DW8A



DW8 flat type



DW8 with covering



DW9

PV: Main measured value/parameter code
SV: Via measured value/setting parameter values
A: DW9 indication for Hz/VA/PF/KW/VAR /KWh
B: DW9:Voltage value/Parameter code
C: DW9 Current value/setting parameter

SET: Set/Confirm key

Shift: Shift/Clear key

Up: Up key

Down: Down key

Indication lamps

AL1: Alarm 1 On: alarm active Off: No alarm
AL2: Alarm 2 On: alarm active Off: No alarm
AL3: Alarm 3 On: alarm active Off: No alarm
KW/A: watt/ampere On: Watt Flash: Ampere

KWH/VAR: energy consumption/Reactive power

On: energy power Flash: Reactive power
PF/V: power factor/voltage

On: Power factor Flash: Voltage

VA/Hz: apparent power/frequency

On: apparent power Flash: Frequency

V&KV: Voltage unit

mA&A: Current unit

Hz: Frequency

PF: Power factor

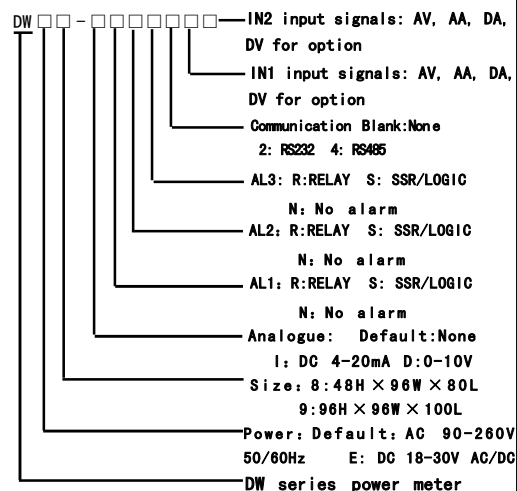
Var: Reactive power

VA: Apparent power

Kwh/φ: Energy consumption KWh or phase angle

Indication lamp on stands for the left unit, indication lamp flashing stands for the right unit.

■ Models



★ 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	

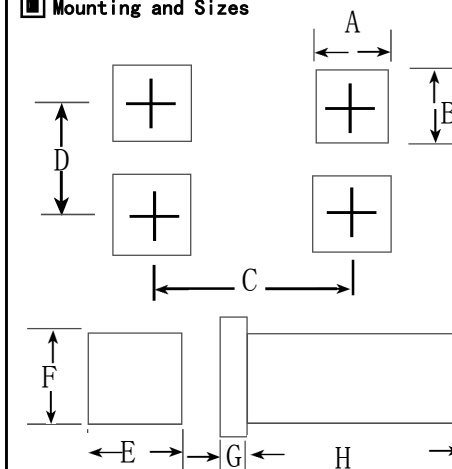
☆ IF AC>600V, please use the instrument with P/T. IF AA> 5A, please use the instrument with C/T

■ 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
Analogue	Frequency: 0-400Hz ±1Hz
	0-10V or 4-20mA selectable by software
Alarm	RELAY: NO AC 250V/3A or DC 30V/3A COSφ=1
Comm	RS232 /RS485 MODBUS RTU protocol

Note: DW8 is available for simple phase, DW9 is available for simple or three phase

■ Mounting and Sizes



Size Mode	A	B	C	D	E	F	G	H
DW8	43.5±0.5	91±0.5	65	115	96	48	12	80
DW9	91±0.5	91±0.5	115	115	96	96	12	100

Parameter setting

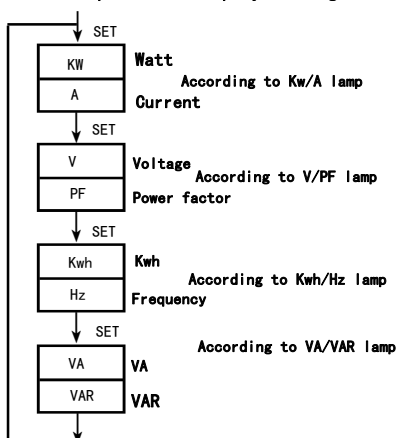
★ Press SET key for more than 3 seconds, can enter/quit from the display setting.

1. In the measuring estate, press and hold SET key > 3 seconds, enter control parameters setting menu. Press <</> key, LED flashes, press \approx / \wedge 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.

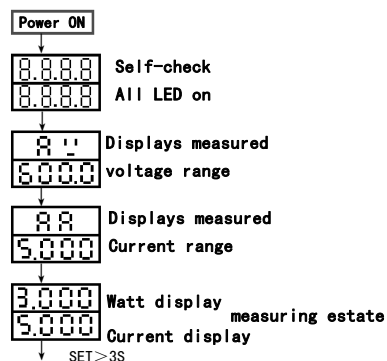
★ Kwh clear : When it is display kwh, press <</> key for more than 2 seconds can clear the totalized Kwh value

★ The up and down row measuring value display can be free set according to the DSH (up LED) and the DSL (down LED). Indication lamp on stands for the left unit, indication lamp flashing stands for the right unit.

Measured parameter display setting

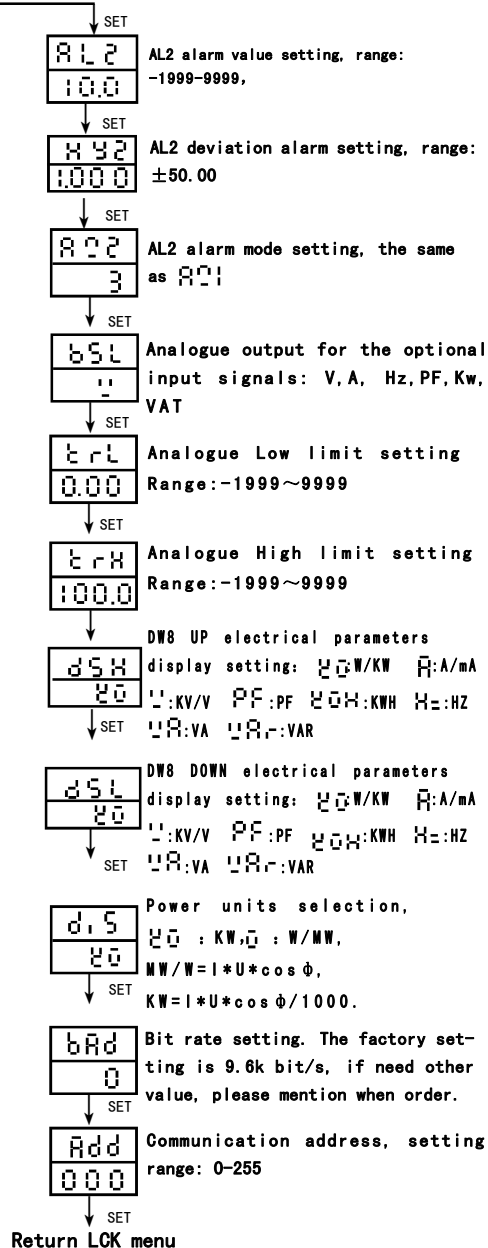
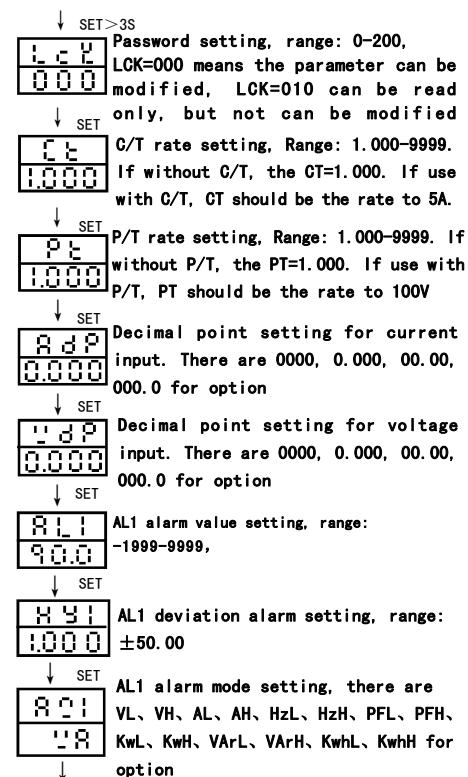


Operation processes



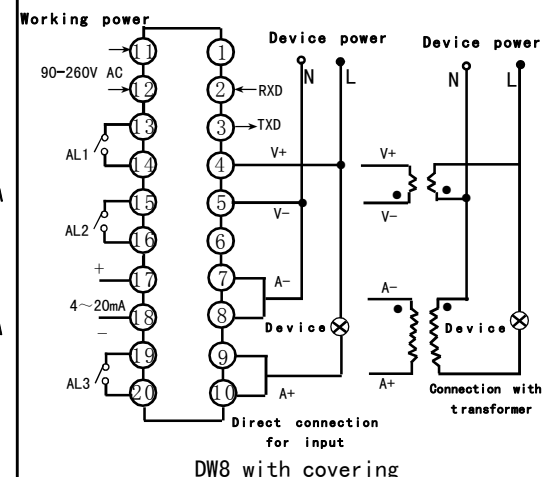
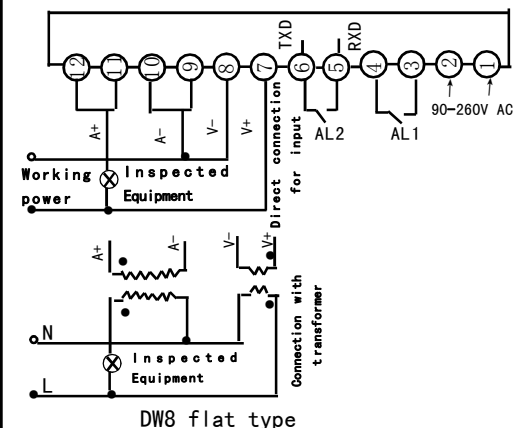
Enter parameter setting menu

Control parameter setting



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

Terminal configurations



★ If any changed, please refer to the product showing

Malfunction estimate

★ Check all the connection and wiring if it is correct. Specially pay attention to the power supply terminals and signal input terminals, please do not wrong connect. As well pay attention to do not short the output terminals by strong current.

★ If the measurement is incorrect, please check if the connection is contrary.