

MYPIN

DW Series single phase Power meter Instruction Manual

Thanks for selecting **MYPIN** products!
Before operating this instrument, please carefully read this manual and fully understand its contents. If any 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.
Do not wire when the power is on.
Do not turn on the power when cleaning this instrument.
Do not disassemble, repair or modify the instrument.
Use this instrument within the scope of its specifications.

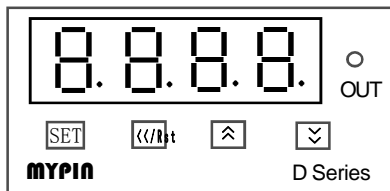
Caution

This instrument should be installed in a domestic environment.
The operating environment : 0 °C(32F) to 50°C (122F). between 0 (32F) to 50 (122F).
To avoid using this instrument in environment full of dust or caustic gas/strong shock / concussion/ overflow water or explosive oil.

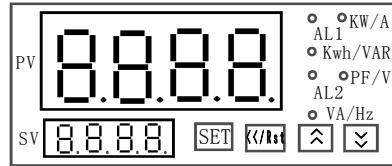
Applications

- 1 RMS Multi-measurement: AC/DC Voltage / Ampere / power factor / active power / Reactive power / frequency /watt-hour etc.
- 2 input: single-phase, AC 1mA-5A, 0.1V-600V, current and Voltage Ratio can be set
- 3 Multi-function alarm and transmit output.
- 4 RS485 RS232 LAN RJ45 Modbus-RTU protocol
- 5 Can be widely applied to power system, factory power distribution, building automation etc.

Panel

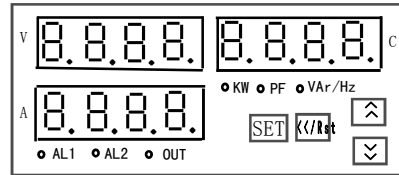


DW8A

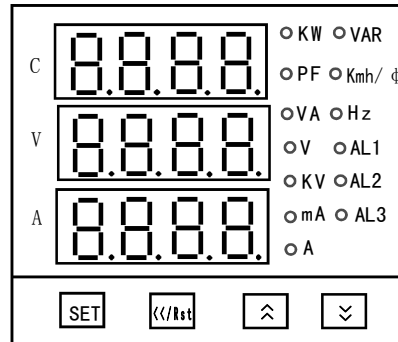


DW8

PV/SV Multi-function windows
KW/A: KW: Active power, A: ampere
On: KW, Flash: A
KWH / VAR: KWh: Kilowatt-hour,
VAR: Reactive power, On: KWh Flash: VAR
PF / V: PF: power factor , V:voltage
On: PF Flash: V
VA/Hz: VA :apparent power,Hz: frequency
On: VA Flash: Hz



DW8C

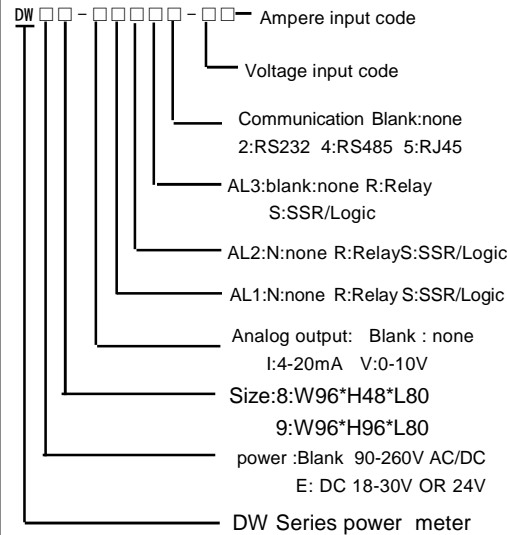


DW9

V window: DW8C/ DW9 Voltage display
A window: DW8C/DW9 Ampere display
C window: DW8C / DW9 display
KW /PF / VAR /VA /Hz /KWh
AL1/AL2/AL3/OUT: Alarm or output LED
On: active OFF:inactive

SET: Select / Confirm key
<</Rst: Shift / Clear Kwh key
∧: Up key
∨ : Down key

Ordering code



E.g :DW8-RR4-00, single phase power meter,power supply:90-260V,SIZE: W96*H 48* L80,AL1 :relay alarm ,AL2:Relay,AL3:none, comm:RS485 input: AV 0-600V/ AC 0-5A

Ampere inputs

Input code	range	Input code	range
0	AC 0-5A	3	AC0-100mA
1	AC 0-1A	4	AC0-1mA
2	AC 0-10A	F	order

Voltage inputs

Input code	range	Input code	range
0	AC 0-600V	3	AC 0-30V
1	AC 0-300V	4	AC0-100mV
2	AC 0-100V	F	order

Specifications

Power supply	90-260V AC or18-30V AC/DC (DC24V)
Consumption	≤5VA
T Rms measure	Voltage: ± 0.1%FS ± 2digit
	Ampere: ± 0.1%FS ± 2digit
	Watt: ± 0.2%FS ± 2digit
	Power Factor: ± 0.2%FS ± 2digit
	Frequency: 0-500Hz ± 0.1Hz
	VA: ± 0.2%FS ± 2digit
	KWh: ± 0.3%FSt
PT/CT	Voltage or current ratio can be set free
Frequency range	0-2.5KHz
Alarm	Relay: AC 250V/3A or DC 30V/3A resistive Load
Analog	0-10V or 4-20mA etc.
Communication	RS232 or RS485 Modbus RTU protocol
Weight	≤350g

Mounting and Dimension

DW8: Dimensions:W96 x H48 x L80mm
Mounting: W 91.5+0.5 x H44.5+0.5
DW9: Dimensions:W96 x H96 x L80mm
Mounting: W 91.5+0.5 x H91.5+0.5

Parameter setting

- 1 In the displaying estate, Keep holding ' SET' key until to enter setting menu.
- 2 Press <</RST key,Shift / LED flashes,
- 3 press ∨ / ∧ key to modify data
- 4 press SET key to confirm.
- 5 Press SET key to read or change the following parameters one by one.

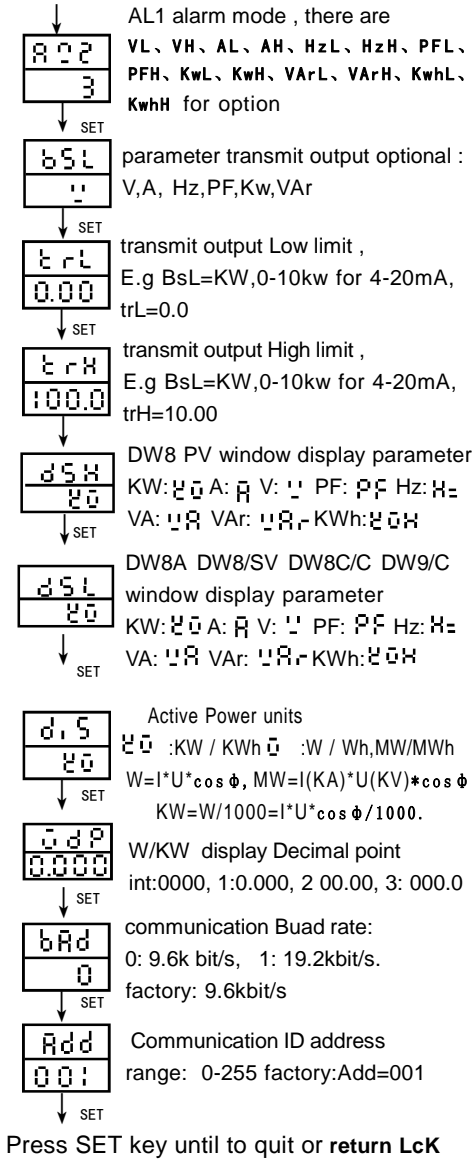
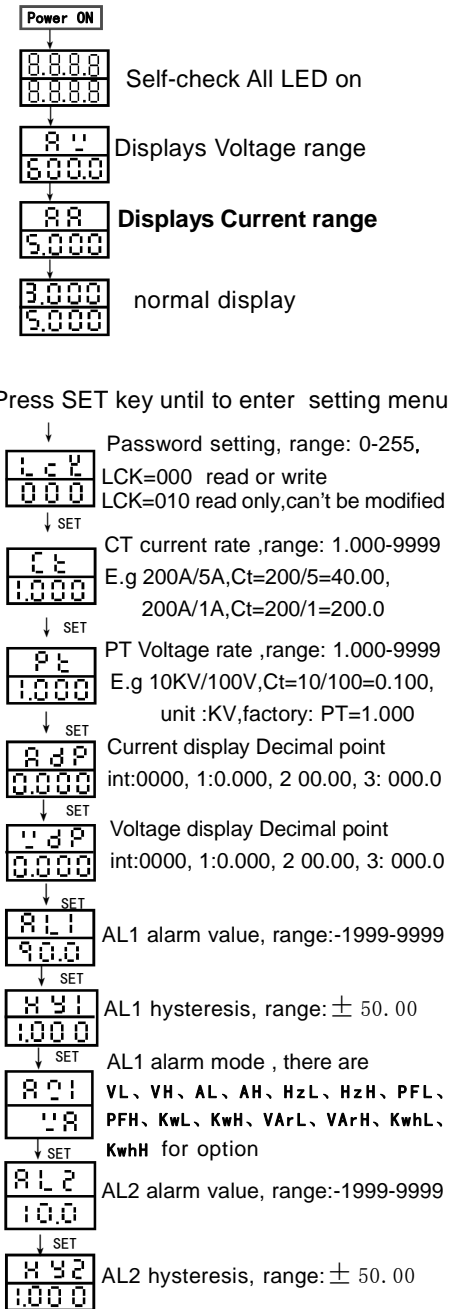
Kwh clear: Press SET key,let KWh LED ON, then press <</Rst key until the totalized Kwh display changes 0

Display switching:

DW8 SV window, Press SET key to switch
KW→ A→ V→PF→KWh→Hz→VA→VAR
DW8C C window /DW9 C window,press SET key to switch
KW→PF→VA→VAR→KWh→Hz

The instrument will return to the measuring estate without any operation for 25 seconds.

Operation processes



Press SET key until to quit or return LcK

AL1 AL2 application

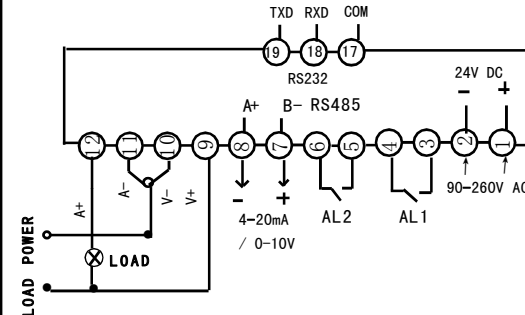
Alarm mode:

- VL: Voltage low alarm VH:Voltage high alarm
 - AL: Ampere low alarm AH:Ampere high alarm
 - HzL: Frequency low alarm HzH:Frequency high alarm
 - PFL: power factor low alarm PFH:Power factor high alarm
 - KWL: Watt low alarm KWH:Watt high alarm
 - VArL: reactive power low alarm
 - VArH: Reactive Power high alarm
 - KWhL: Kilowatt hour low alarm
 - KWhH: Kilowatt hour high alarm
- E.g AL1=100.0,AM1=AH,Hy1=2.0,
If ampere >= 100A,AL1 ON(active)
if Ampere < 98A(AL1-hy1),AL1 OFF(inactive)

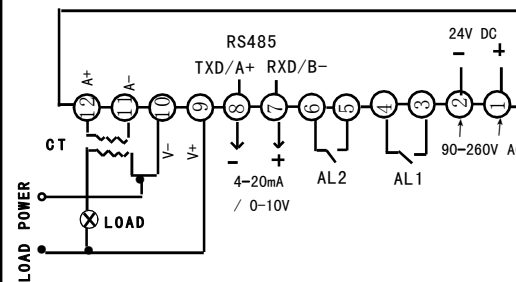
Connections

(If any changed, refer the table on meter)

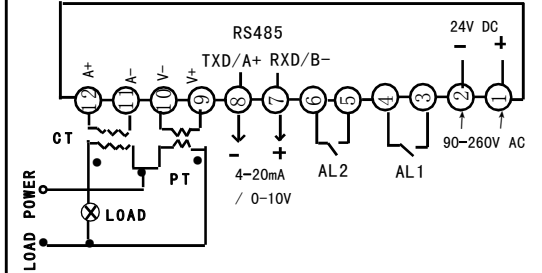
A+ V+ A- V- :phase comparison relationship



Direct input wiring diagram



With Current CT wiring diagram



With CT and PT wiring diagram

There the Same wiring diagram as DW8A DW8 DW8C DW9

Complete products contains

- ★1 copy of user manual,
- ★1 inspection QC label,
- ★2 installing brackets.

We are responsible for the overall repairment for the failure of manufacturing quality within 12 monthssince the date of purchase.Repair fee will be charged accordingly for damage caused by improper use..

Modbus protocol or other information

PLS Down load from: www.mypinchina.com

IP/wechat: 86-18689341985, Email: sale@mypinchina.com

Main Products

- Counter & length meter
- Time relay
- Temperature controller
- Panel meter
- Frequency/Tacho/Line-speed meter
- Proximity sensor Photo-electrical sensor
- Ampere & Voltage Power meter
- Transmitter
- Sensor indicator
- Power adjustor