



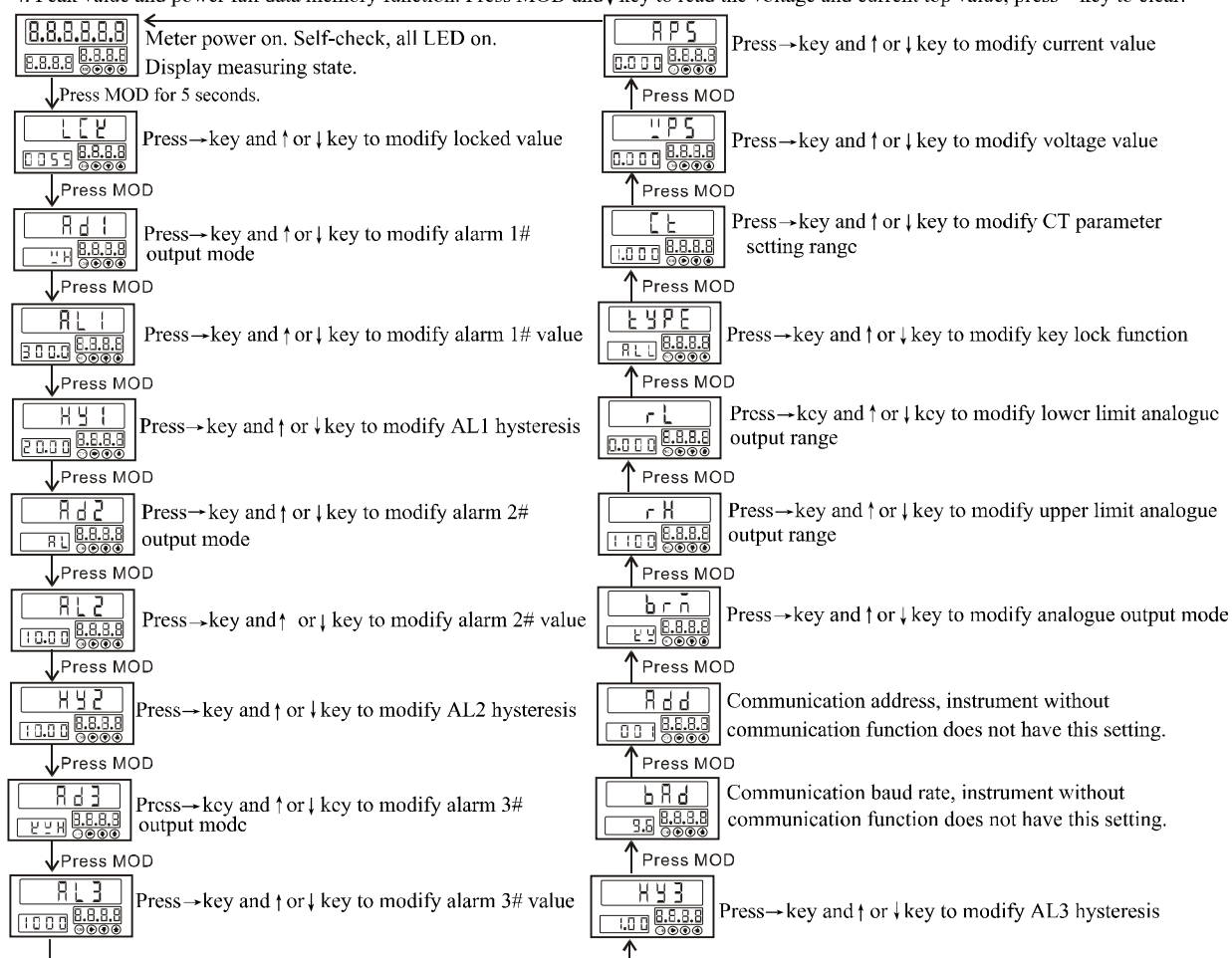
## Single-Phase Coulometer

# User Manual

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## Operation Process

1. In the measuring state, press and hold MOD key for more than 5 seconds, enter control parameters setting menu. Press→ key to shift digit, LED light flashing, press↑ or ↓ key to increase or decrease and press→ & ↑ key to modify decimal point. Press MOD to confirm and to read the following parameters one by one.
2. The instrument will return to the measuring state without any operation for 25 seconds.
3. Press MOD and ↑ key at the same time can clear the energy consumption KWh.
4. Peak value and power fail data memory function. Press MOD and ↓ key to read the voltage and current top value, press→ key to clear.



## Menu Structure

Display	Name	Description	Factory setting
LCK	Menu Lock	If the value LCK=0055, parameters can be changed	0055
LCK		If the value LCK=other, parameters can be read but can not be changed	
Ad1	1st Alarm mode setting	AL1 alarm mode setting, there are VL, VH, AL, AH, HzL, HzH, PFL, PFH, KwL, KwH, VArL, VArH, KwhL, KwhH for option Note: L means Lower limit alarm, H means upper limit alarm, such as AL means lower limit alarm	VH
AL1	1st alarm value setting	AL1 setting range -1999 ~ 9999	10
AL1			
HY1	AL1 Alarm hysteresis	AL1 hysteresis setting range: $\pm 50.00$	0000
HY1			

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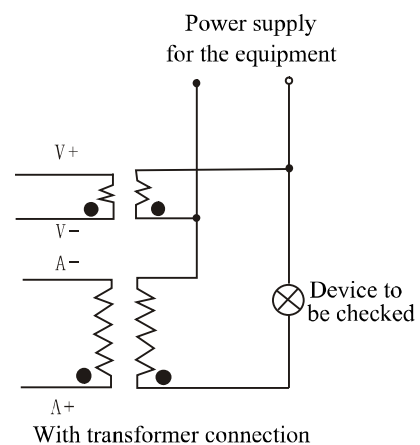
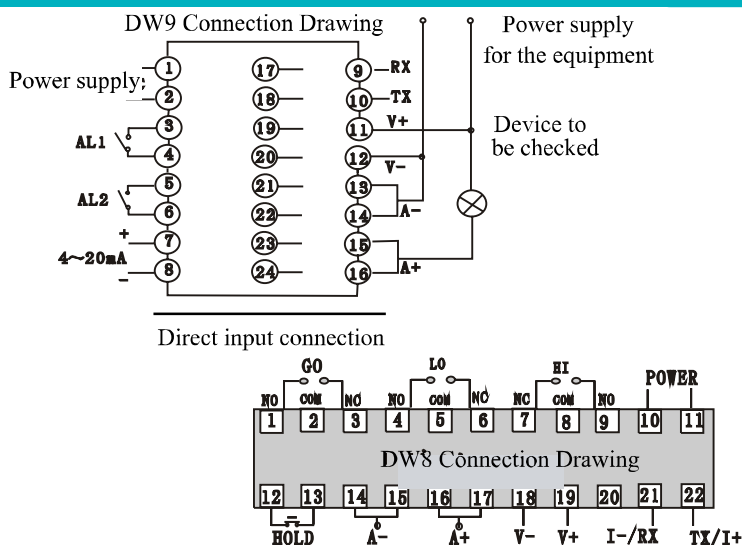
## User Manual

DW Series

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Rd2	2# Alarm mode setting	AL2 alarm mode setting same as 1st alarm (Ad1).	AH
Ad2	2# alarm value setting	AL2 alarm value setting range is same as 1st alarm (AL1).	10
RL2	2# alarm hysteresis	AL2 hysteresis setting range is same as HY1	0
AL2	2# alarm hysteresis	AL2 hysteresis setting range is same as HY1	0
HY2	3# Alarm mode setting	AL3 alarm mode setting same as 1st alarm (Ad1).	KW
Rd3	3# alarm value setting	AL3 alarm value setting range is same as 1st alarm (AL1).	10
Ad3	3# alarm hysteresis	AL3 hysteresis setting range is same as HY1	0
RL3	3# alarm hysteresis	AL3 hysteresis setting range is same as HY1	0
AL3	Communication Baud Rate	Default baud rate is 9.6K Bit/S or 4.8K Bit/S. If need other value, please mention when order.	9.6K Bit/S
HY3	Communication Address	Setting range: 0 ~ 255	001
BRd	Transmit output signals	V: Voltage transmit; A: Current transmit; PF: Power factor transmit Var: Reactive power transmit; Hz: Frequency transmit VA: Apparent power transmit; KW: Active power transmit	V
Brm	Transmit upper Limit setting	Display setting value for 20mA transmit output Setting range: -1999 ~ 9999	
Rh	Transmit lower Limit setting	Display setting value for 4mA transmit output Setting range: -1999 ~ 9999	0.000
Rl	Key Lock	This function is only applied to $Hz = KW, Hz = IIZ, S = VA, Q = Var, PF = PF, P = W/KW, RLL = ALL$ . If select (press) ALL key, meter can display all the set parameters. Then press MOD to modify.	ALL
TYPE	Current transform (CT) setting	Setting range: 1.000 ~ 9999. For example, if the measured current is 10A user must use a current transformer which transform value is 10:5. Then $5A \times 10A = 50A$ with CT.	1.000
UPS	Voltage amendment value	Voltage display value after amendment: measured value + APS value Amendment Range: 0 ~ 9999	0000
VPS	Current amendment value	Voltage display value after amendment: measured value + APS value Amendment Range: 0 ~ 9999	0000
APS			

### Terminal Connection



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www.yotochn.net

Note: Please subject to the drawing on the meter if it is different to the one on the user manual.

For the current input connector, there are two connectors for one end. If load current is larger than 3A, please connect wire with all current input connectors as per the above drawing in order to share the input current per each end and avoid connectors over heating.

## Warning

1. Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.
2. Do not wire when the power is on. Do not connect the unused terminals. 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.
3. Use this instrument in the scope of its specifications. Otherwise fire or malfunction may result.
4. The use life of the output relay is quite different according to its capacity and conditions.  
If use out of its scope, fire or malfunction may result.

## Caution:

- 1). This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result.
- 2). The operation temperature environment should between 0 (32F) to 50 (122F).
- 3). To avoid using this instrument in environment full of dust or castic gas.
- 4). To avoid using this instrument in environment of strong shock or concussion.
- 5). To avoid using this instrument in environment of overflow water or explosive oil.
- 6). There is no current protection power supply or fuse in this instrument. If reinforced is needed, the specifications of the fuse should be: rated voltage:250V AC, rated current: 0.5A.
- 7). The power supply wire should not put together with large current wire to avoid electromagnetic radiation. If it must be put together, we suggest to use the individual pipe or shielded cable.
- 8). In case the instrument is used in environment of nuclear control, iatrical equipment, auto, train, airplane, entertainment or security equipment that need protections, please contact the manufacturer for details.

## Error Estimation

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.

Check if the input mode is correct.



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