★ Applications

CHD Series Power Meter Instruction Manual

Thanks a lot for selecting Sanyou 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

Wirning

Do not wire when the power is on. Do not connect the unused terninals. 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 nalfunction 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.

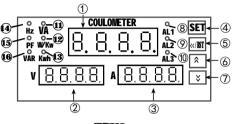
The is no current protection power supply or fuse in this instrument. If reinforced is needed, the specifications of the fuse should be: 250VAC, 0.5A.

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.

In case the instrument is use in environment of nuclear control, iatrical equipment, auto, train, airplane or security equipment that need protections, please contact the manufacturer for details.

The instrument is to measure any range of AC/DC voltage or current set by user. It can be available for data reserve or top value reserve function. 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 antomation etc. With NS485 for remote control.

Name of parts



CHD800

(1) Measured value converting indication for Hz/VA/PF/HWVAR/HMi/ φ

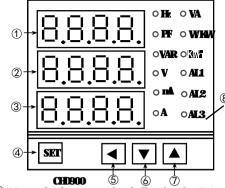
② Measure voltage value/parameter code display

- ③ Measure current value/parameter amend display value
- 4 Parameter select/confirmkey
- 5 Shift key/Energy consumption value clear key
- 6 Down key
- 🕖 Up key
- (8) AL1 indication Lamp. On: AlarmOff: No alarm
- 9 AL2 indication Laup. On AlarmOff: No alarm
- (1) AL3 indication Lanp. On AlarmOff: No alarm
- (1) Apparent power indication lanp
- (12) Witt indication lamp, flashing means the unit is W On means the unit is KW

(3) Energy consumption KMs or phase angle indication lamp

- (4) Frequency indication lamp
- (15) Power factor indication lamp

(16) Reactive power indication lamp



① Measured value converting indication for Hz/ VA/PF/KWVAR/KMz/

- ② Voltage measured value/Parameter code
- 3 Current measured value/Parameter modification
 4 Parameter select/confirmkey
- 5 Shift/Energy consumation value clear key
- Shirt/ mility consulption value creat key
 Down key (7) Up key
- ⑧ V: Voltage indication lamp nA/A: Current indication lamp
- Hz:Frequency indication lanp
- **PF**: Power factor indication lamp
- VAR: Reactive power indication lamp VA: Apparent power indication lamp

WKW Watt indication lamp. On means the unit is KW, flashing means the unit is W Kwh: Energy consumption KWh or phase angle indication lamp

AL1: AL1 indication Lamp. On: Alarm Off: No alarn AL2: AL2 indication Lamp. On: Alarm Off: No alarn AL3: AL3 indication Lamp. On: Alarm Off: No alarn

Models

— IN2 input signals: AV, AA, DA, CHD DV for oution INI input signals: AV, AA, DA, DV for oution Communication interface: Blank: N commication 2: 18232 4: 18485 AL3: REFEAT S: SSR/LOGIC T: SCR N: No alarm AL2: R: RELAY S: SSR/LOGIC T: SCR N: No alarm AL1: R: RELAY S: SSR/LOGIC T: SCR N: No alarm Analogue: Default: No analogu I: DC 0-10nA or DC 4-20nA Power; Default; AC 90-260V 50/60Hz E: DC 24V Size: 800:48H×96W×84L 900: 96H× 96W× 84L

Single phase power meter

★Input signal selection (To measure AC voltage/current please mention the range when order)

| Input signals | Measured range | Input inpedance | Factor |
|---------------|-----------------------|-----------------------------|--------|
| A(AA/DA) | AC 0~5A.0~2A | P/T free set by software | 0~5A |
| mA | 0~1nA. 0~10nA. 4~20nA | ≤150Ω | |
| V(AV/DV) | 0~5V. 0~10V. 0~600V | ≤ 200KΩ | 0~600V |
| nV | 0∼10nV. 100nV | ≤ 2MD | |

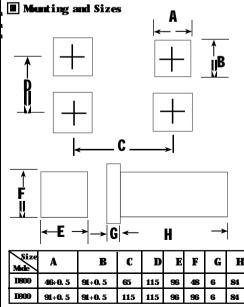
ightarrow Measure AC voltage more than 600V, please use the

instrument with C/T. Measure AC current more than 54,

please use the instrument with P/T

Specifications

| Power | 90-260V AC 50/60Hz | | |
|-------------------------|--|----|--|
| Measured objects | True value, simple/three phases/voltage/cur- rent/Witt/Power factor/frequency/energy consum -tion/reactive power | | |
| Direct in- put range | Voltage: 0-600V Current: 0-5A or 0-1 | 0A | |
| P/T, C/T setting | Free set by software | | |
| Measured fro | equency range 0-2.5KHz | | |
| Accuracy | Voltage: ± 0. 5% FS ± 2digit | | |
| | Current: ± 0.3%#S ± 2digit | | |
| | Watt:±0.5% #S±2digit | | |
| | Power Factor: ± 0. 5%FS ± 2digit | | |
| | Frequency: 0-250Hz ± 1Hz | | |
| Anal ogue | 0-10V or 4-20mA selectable by software | e | |
| Alarm | RELAY: NO AC 250V/3A or DC 30V/3A COS¢=1 | L | |
| Communicatio | n RS232 or RS485 with MODEUS TRU protocol | | |
| Note: DB | 0 is available for simple phase. | | |



Parameter setting

1. In the measuring estate, press and hold SET key for nore than 3 seconds, enter control parameters setting menu. Press 1/3/8/RST key, LED flashes, press 1/ 8 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.

CHD800 flat style instruction

★ Kwh clearance: When it is display VA/VAR press <</RST key for more than 2 seconds can clear the totalized value

★The up and down LED displaying 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.

★ For D801, press SET key can set the displaying parameters.

 \star Press \wedge / \otimes key for more than 3 seconds, can enter/quit from the display setting. Press Å/Š key at the same time REAL TO LED display setting 2·V 3·FF

d SL

SET

↓ SET

L SET

VA

Kuh

Hz

VA

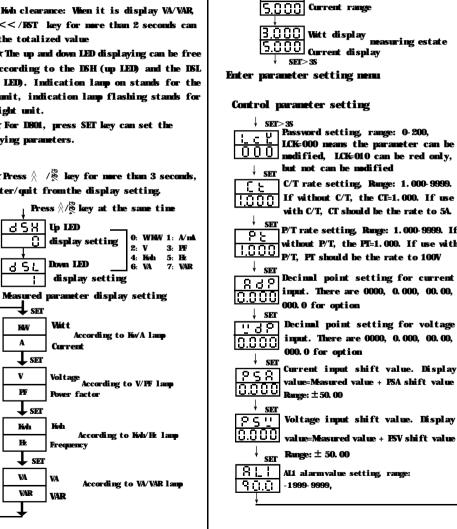
VAR

КW

A

v

FF



Power (N

8888

8.8.8.8

