

Multifunction Power Meter Instructions

Please read the following instructions carefully before connecting this meter to electrical appliances.

WARNING!

Do not plug two or more meters together!

IMPORTANT

Don't plug in an appliance where the load exceeds 16 Amp. Always ensure the plug of any appliance is fully inserted into the meter outlet. If cleaning of the meter is required, remove from mains power and wipe meter with a dry cloth.

KEYBOARD DEFINITION

1. **MASTER CLEAR:** Clear all data in memory including current time and all programs.
2. **UP:** Set current time, price, price programs combined with buttons **SET**; exchange 12-24 hour mode during clock display state.
3. **SET:** Set current time, price, price programs combined with buttons **UP**.
4. **FUNC:** Exchange display state.

GENERAL FEATURES

1. Display current clock.
2. Display line voltage.
3. Display line current.
4. Display line power.
5. Display and memory accumulative total electric quantity.
6. Display and memory total on time and total electric charge,.
7. Display and memory total on time and total electric charge of price1.
8. Display and memory total on time and total electric charge of price2.
9. Display line frequency.
10. Display power factor.
11. Adjustable price / kWh

11 combinations of day or blocks of days available as follows:

MO

TU

WE

TH

FR

SA

SU

MO,TU, WE, TH, FR

MO,TU, WE, TH, FR, SA

SA, SU

MO, TU, WE, TH, FR, SA, SU

BATTERY

Insert the 3 pcs batteries(LR44/AG13) according to the correct direction indication, close the cover of battery.Press master clear button after insert batteries. Now the power meter is ready to be set up for use.

Note: 1. **The cover must be in place before use.**

2. **The batteries must be taken out if not use for long time.**
3. **The changing of batteries is only allowed if the equipment is disconnected from the main power.**
4. **The batteries shall not be disposed into the garbage.**
5. **Leaking batteries installed in the equipment might cause an electric shock.**
6. **The power meter may not work with open batteries cover.**
7. **The min distances is 8 mm for batteries are the clearances, creepage distances.**

THE DATA DISPLAY

Press **FUNC** button the data displays as follows:

VOLTac → AMP → WATT →KWh →TOTAL PRICE;TOTAL ON TIME → PRICE1 → PRICE2

↑-----↓

1. The meter will display current clock and line voltage, frequency, if plug in socket after insert battery without any operation.
2. Press **FUNC** button once and release, the meter will display current clock and line current, power factor.
3. Press **FUNC** button once again and release, the meter will display current clock and real power, power factor.
4. Press **FUNC** button once again and release, the meter will display current clock and accumulative **KWh**, power factor,
5. Press **FUNC** button once again and release, the meter will display total on time and total electric charge.
6. Press **FUNC** button once again and release, the meter will display total on time of price 1 and total electric charge of price 1.
7. Press **FUNC** button once again and release, the meter will display total on time of price 2 and total electric charge of price 2.
8. Press **FUNC** button once again and release, the meter will come back to display current time and line voltage.
Press and hold **FUNC** button for 5 seconds to clear accumulative total electric quantity and total electric charge during display state of total electric charge or total electric charge of price 1 or total electric charge of price 2.
9. LCD display -----when total electric quantity, total electric charge overflow, the **OVER** will flash at the same time.

SETTING CURRENT CLOCK

1. Press **FUNC** button until the **CLOCK** displays in LCD.
2. Press **SET** button once time, The "**WEEK DAY**" will flash at same time, the clock change to **SET** mode. you can set the current clock now.
3. Press **UP** button to set the "**WEEK DAY**".
4. Press **SET** button once time again and release, The "**HOUR**" will flash. The "**WEEK DAY**" will stop flashing and keep display.
5. Press **UP** button to set the "**HOUR**".
6. Press **SET** button once time again and release, The "**MINUTE**" will flash. the "**HOUR**" will stop flashing and keep display.
7. Press **UP** button to set the "**MINUTE**".
8. Press **SET** button once time again and release, the time come back to **CLOCK** display mode.
9. Press **UP** button during the **CLOCK** display state, change 12-24 hour mode.
To reset incorrect time, repeat above steps.

After finish setting, Plug the meter into a regular **230** Volts power outlet, plug in an appliance that you want to use and turn the mains power on. Now the meter begins to measure the consumption of the appliance and detect the equipment that uses too much electricity at once.

SETTING PRICE OF COST/kWh

Press and hold **FUNC** button for 5 seconds during display state of voltage or current or power.

1. Setting **price 1**:
 - a. Press **SET** button once and release, **SET** display, the first digital **COST/kWh** flash, press **UP** button to set it.
 - b. Press **SET** button once again and release, the second digital **COST/kWh** flash, press **UP** button to set it.
 - c. Press **SET** button once again and release, the third **COST/kWh** flash, press **UP** button to set it.
 - d. Press **SET** button once again and release, the fourth **COST/kWh** flash, press **UP** button to set it.
 - e. Press **SET** button once again and release, the radix point **COST/kWh** flash, press **UP** button to set it.
 - f. Press **SET** button once again and release, the weekday flash, press **UP** button to set it.
 - g. Press **SET** button once again and release, the hour of **ON TIME** flash, press **UP** button to set it.
 - h. Press **SET** button once again and release, the minute of **ON TIME** flash, press **UP** button to set it.
2. Setting **price 2**:
Press **FUNC** button once and release after finish Setting price 1. Setting price 2, repeat above steps.

STAND BY MODE

Display of LCD will disappear without any operation after AC power off for 10 seconds. Press any key come back to display.

SPECIFICATIONS

Power supply	230V AC 50Hz
Max. load	16A, 3600W

Measure voltage range	190-276V AC
Measure voltage accuracy	+/-1%
Measure current range	0.01-16A
Measure current accuracy	+/-1% or +/-0.01 A
Measure power range	0.2-4416W
Measure power accuracy	+/-1% or +/-0.2W
Accumulative electric quantity range	0 -9999.9kWh
Measure frequency range	45-65Hz
Clock accuracy	+/- 1 minute per month
Power cost	<0.5W
Operating temperature	-10 °C to +40 °C
Battery	3x1.5V LR44/AG13
Battery life	about 3 months without AC power

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