

# Power Meter

## instruction manual

Power Meter is a monitoring and testing instrument which determines the power consumption of a connected appliance and the cost of the electricity consumed.

Built-in 3.6V rechargeable Batteries (NI-MH). The purpose of the batteries is to store the total electricity and memory setting

### Resetting

If an abnormal display appears or the buttons produce no response, the instrument must be reset. To do this, press the RESET button.

### Display Mode

Entire LCD can be displayed for about 1 minute and then it automatically gets into Mode1. To transfer from one mode to the other, press the FUNCTION button.

**Mode 1: Time/Watt/Cost Display** Display duration(how long) this device connect to power source.

LCD on first line shows 0:00 with first two figures mean minutes(2 figures will occur while occur at 10 min) and the rest shows seconds. After 60mins, it displays 0:00 again with first two numbers meas hour(2 figures will occur at 10hours)and the rest shows minutes. The rest can be done in the same manner which means after 24 hours, it will re-caculate. LCD on second line displays current power which ranges in 0.0W~9999W. LCD on third line displays the current electricity costs which ranges in 0.0cost~9999cost. It will keep on 0.00cost before setting rate without other figures.

**Mode 2: Time/Cumulative electrical quantity Display** Display duration(how long) this device connect to power source.

LCD on first line shows 0:00 with first two figures mean minutes(2 figures will occur while occur at 10 min) and the rest shows seconds. After 60mins, it displays 0:00 again with first two numbers meas hour(2 figures will occur at 10hours)and the rest shows minutes. The rest can be done in the same manner which means after 24 hours, it will re-caculate. LCD on second line displays current cumulative electrical quantity which ranges in 0.000KWH~9999KWH without other figures. LCD on third line displays"DAY"-- "1 "will be showed on numerical part(the other three figures will be showed at carry) which means it has cumulated electrical quantity for 24hours(one day). The rest can be done in the same manner untill the maximal cumulative time of 9999 days.

**Mode 3: Time/Voltage/Frequency Display** LCD on first line displays the same as Mode 1 dones. LCD on second line displays current voltage supply (v) which ranges in 0.0V~9999V .LCD on third line displays current frequency (HZ) which ranges in 0.0HZ~9999HZ without other figures.

**Mode 4: Time/Current/Power Factor Display** LCD on first line displays the same as Mode 1 dones. LCD on second line displays load current which ranges in 0.0000A~9999A. LCD on third line displays current power factor which ranges in 0.00PF~1.00PF without other figures.

**Mode 5:Time/Minimum Power Display** LCD on first line displays the same as Mode 1 dones. LCD on second line displays the minimum power which ranges in 0.0W~9999W. LCD on third line displays character of "Lo" without other figures.

**Mode 6: Time/Maximal Power Display** LCD on first line displays the same as Mode 1 dones. LCD on second line displays the maximal power which ranges in 0.0W~9999W. LCD on third line displays character of "H<sub>1</sub>" without other figures.

**Mode 7: Time/Price Display** LCD on first line displays the same as Mode 1 dones. LCD on third line

displays the cost which ranges in 0.00COST/KWH ~ 99.99COST/KWH without other figures.  
**Overload Display:** When the power socket connects the load over 3680W, LCD on second line displays the "OVERLOAD" with booming noise to warn the users. (selectable choice)

### **Supplemental informations:**

- 1: Except "OVERLOAD" interface, LCD on first line display time in repetition within 24hours.
- 2: LCD on first line, second line or third line described in this instruction take section according to two black lines on LCD screen. Here it added for clarified purpose.
3. Mode 7 will directly occur while press down button "cost".
- 4."UP"&"Down" are in no function under un-setting mode.

### **Setting Mode**

#### **1. Electricity price setting**

After keeping COST button pressed lasting more than 3 seconds(LCD on third line display system defaults price, eg 0.00COST/KWH ),the rendered content begins moving up and down which means that the device has entered the setting mode. After that, press FUNCTION for swithing , then press "UP"and "DOWN" button again to set value which ranges in 00.00COST/KWH ~99.99COST/KWH. After setting all above , press COST to return to Mode7 or it will automatically return to Mode7 without any pressing after setting with data storage.

### **Technical specification**

Operating voltage: 120V, 60HZ  
Operating current: max 15A  
Wide voltage range: 110V---- 130V  
Timing display range: 0 second ----9999 days.  
Wattage display (watts) range : 0W----9999W  
Voltage Display range: 0V----9999V  
Current display (amps)range: 0.000A—15.000A  
Frequency display range:0Hz---9999Hz  
Minimum Wattage display range: 0.0W----9999W  
Maximum Wattage display range: 0.0W----9999W  
Price display range: 0.00\$/KWH----99.99\$/KWH  
Total KWh and cost display: 0.000KWH----9999KWH,  
0.00\$----9999\$