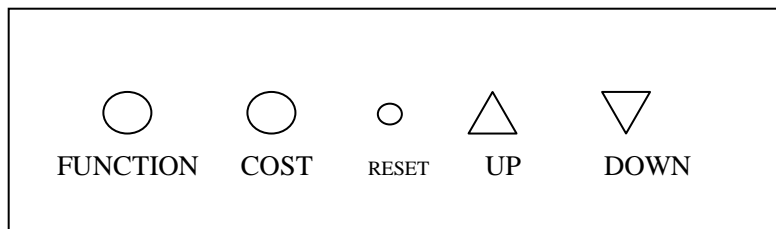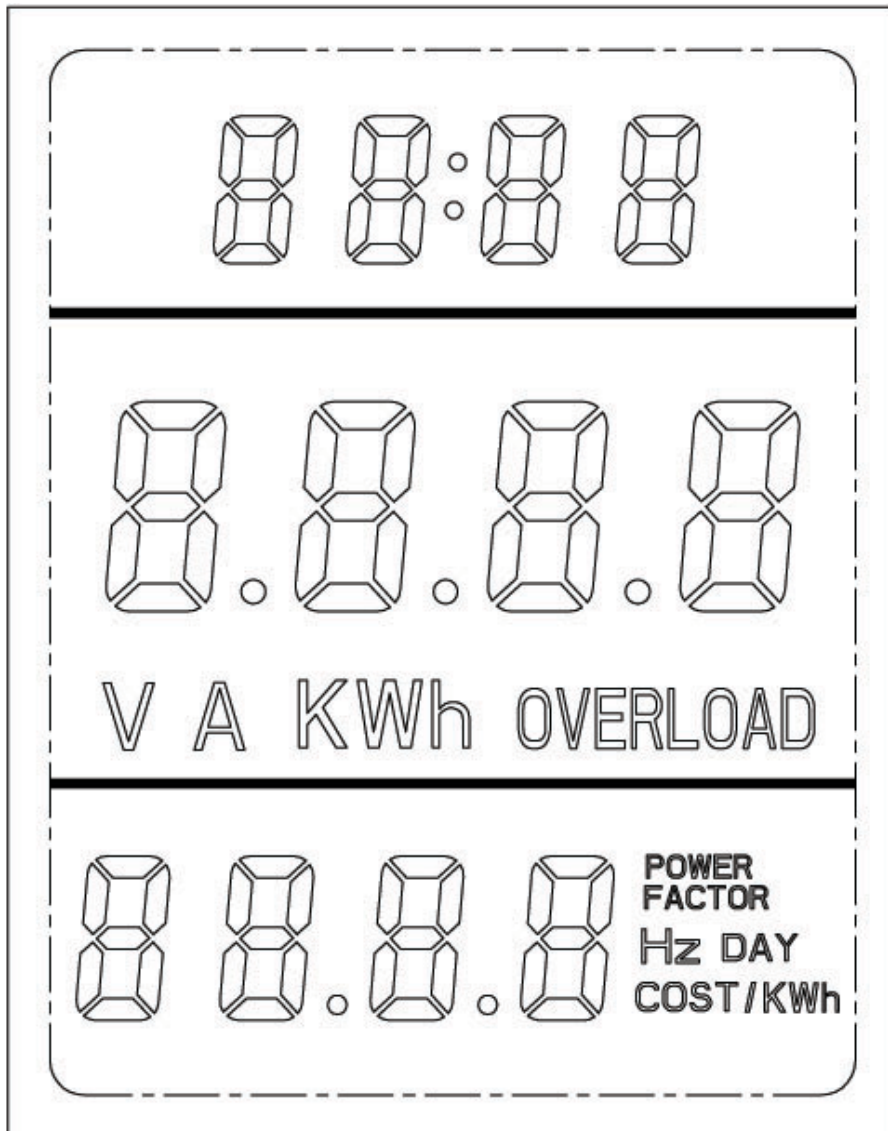# Power Meter Buster

instruction manual

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

Installed the batteries

Installed 3.6V rechargeable Batteries**(NI-MH) on the PCB** . 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 untial 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$_I$" 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 repitition within 24hours.

2: LCD on first line, second line or third line described in this intruction 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. Then press FUNCTION button to change selection and press UP/DOWN to set what you want. (On pressing once, the figure after demical point will increase or decrease accordingly. On pressing and hold-on, figures after demical point will increase or decrease slowly in 2 seconds while figures change quickly when hold-on time exceeds 2 seconds. When hold-on time reaches 10 seconds or more, the figures after demical point will stop while the figures before demical point begin to increasing or decreasing.) 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: 230V ac

Frequency display: 50Hz

Wide voltage range: 230V---- 250V

Operating current: max 16A

Wattage display (watts): 0W---- 3600W

Current display (amps):   0.0A—16.0A

Price display range: 0.00/KWH----99.99/KWH

Total KWh and cost display: 0.000KWH----9999KWH, 0.00----9999