BENETECH®

PRECISION
POWER MONITOR

GM87

Description

This product adopts the microcomputer chip with high integration and specialized chip for energy metering, along with current sensor and LCD display with high precision, to achieve a comprehensive monitoring of electrical equipment, this device can be widely used in mornitoring the household appliance such as electric ovens, fans, measuring instruments can also be used as a teaching, but also suitable for families, rental housing, office, laboratory environment.

Features:

- Standard:BC17215-2003
- Power applied:
  220V 50Hz Max 1A
  (Less than 220W)
- Precision:1.0
- Constant:6400imp/kWh
- Power consumed:<1W
- Operating temperature:
  $0\sim45^{\circ}C$
- Storage temperature:
  $-20\sim60^{\circ}C$
- Monitoring the present active power
- Monitoring the present voltage/current/frequency
- Record powering time
- Record power consumed
- Calculating the CO_2 emission volume.
- Power factor pick-up
- Setting overload threshold
- Backlight function
- Large LCD display

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(*Note*: 0.555kg CO_2 may be generated from 1 KWH power consumption)

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Instructions

1. Plug the unit into the power socket then connect the household appliance with the unit.

2. POW/WATT/PF/VOLT/CUR/CT/ FREQ/CO_2 will be displayed on the LCD. The active power value will be displayed on the LCD after turning on

3. Key operation: press ▲ key the WATT/CUR/VOLT/FREQ/CT/EC/ CO_2/PF will be displayed on the LCD in sequence. Press ▼ key the above value will be displayed in a reversal order.

4. Backlight function: under the interface of Current, press the SET key for 2 seconds to enter into backlight setup mode with LEd appearing on LCD and ON and OFF icons flash and press Up or Down key to select ON or OFF, and press OK key to exit the set up. If the OFF is selected then the backlight will be turned off automatically if there is no operation on the key within 10 seconds(default setting ex-factory). If ON is selected the backlight will be on long time.

5. Overload alarm and overload threshold setting.
   a. Overload alarm: when the measured device has its watts setting over the preset threshold, the backlight flashes; when the watts gets down and below the preset value, the backlight stop flashing.
   b. Overload threshold setting: switch the LCD display to WATT item, then press SET key for 2 seconds to enter into overload setting interface and XXXW appears on LCD while the first X on the left flashes. Pressing the ▲key or ▼key to adjust the setting value, and press OK key to confirm the set. And the 4 settings will be done from the left to right in order, and LCD displays the WATT option again after these settings done. The high threshold is 220W, and LCD will display Err if overflow, and flashes 4 times to return to the overload setting.

6. Time clearance: switch to the CT interface and hold the SET key for 2 seconds to enter into the said interface. Press OK key to confirm clearance operation. Then LCD returns to the CT interface.

7. Power Consumed clearance: switch to the EC interface and hold the SET key for 2 seconds to enter into the said interface. Press OK key to confirm clearance operation,then LCD returns to the EC interface.