

AC Digital display Multifunction Meter

Product Type: PZEM-002(V4.0)

A. Function

1. Electrical parameter measurement function (voltage, current, active power, energy)
2. Running Time function (records the accumulated operating time of load).
3. Overload warning function (backlight flashing to alarm when overload).
4. Power warning threshold preset function (you can set your own power warning threshold).
5. The reset function of energy and running time keys.
6. Backlight function.
7. Store data when power-down function (store the accumulated energy, running time, display items, the state of backlight on or off).
8. Large-screen LCD display function (display voltage, current, energy, active power, the accumulated running time)

B. Key function description

The description of keys/LCD function

Keys	function
UP	<ol style="list-style-type: none"> 1. Short press the UP key will reversed circularly display time, power, energy, current and voltage under normal display state. 2. Under the power warning threshold setting state, press the UP key +1. 3. Short press the UP key will exit the reset state when energy and time are under the reset state.
DOWN	<ol style="list-style-type: none"> 1. Short press the DOWN key will sequential circularly display voltage, current, energy, power, time under normal display state. 2. Under the power warning threshold setting state, press the DOWN key -1. 3. Short press this key will exit the reset state when energy and time are under the reset state.
SET	<ol style="list-style-type: none"> 1. Under the power display state, long press 3 seconds to enter the power warning threshold setting state 2. Long press 3 seconds will enter into the energy or time reset state under the energy or time display state.
OK	<ol style="list-style-type: none"> 1. short press will turn on or off the backlight under normal display state 2. Under the power warning threshold setting state, short press to switch the setting digits 3. Short press will reset the energy or time and quit the reset state under the energy or time reset state

C. Function setting

I. Overload power setting

1. Under normal display state, press UP or DOWN key to switch to the power display menu.
2. Press SET key for about 3 seconds until the flashing screen appears, then release the key.
3. The first digit on the left (the kilobit) flicker acquiescently, short press the "up" or "down" key to change this number (the DOWN key can diminish the data and the UP key can increase the data), short press the OK key to confirm the completion of this digit setting and enter the next digit setting; From left to right in order of is kilobit → hundred → ten → bit, after the bit setting finished, press "OK" button to complete overload threshold setting, then the LCD screen will return to "power" display item.
4. The maximum power of the overload threshold is 9999W, if you set the overload threshold beyond this limit value, LCD screen will display "Err" to prompt for 3 seconds, then it will return to the overload setting screen and re-start the setup.

II. Reset setting of the cumulative time, energy

1. Under the normal display state, short press UP or DOWN key to switch to the cumulative time or energy display menu.
2. Long press the SET key for about 3 seconds until flashing screen appears, then release the key
3. Short Press OK key, the cumulative time or energy data is cleared, and LCD screen returns to the cumulative time or energy display items, if you don't want to reset, then press UP or DOWN key to exit the reset state and return to the menu display.

D. Function and display

I. Backlight function

1. After power on, the backlight will automatically turn on, under the normal display state, short press "OK" key will turn on or off the backlight. Backlight has a memory function that is after re-power on it will restore the turn on or off state before power off.
2. When the voltage is greater or less than the set voltage threshold or power outage alarm value, backlight flickering to alarm; after restore the normal range, the backlight stops flicker and restore the state before the power off.
2. When the load power is greater than the set overload power threshold, backlight flickering to alarm; overload when power is less than the overload power threshold, the backlight stop flicker and resume the turn on or off state before.

II. Menu display

1. After power-on, shows power acquiescently, short press UP key to reverse circularly display time, power, energy, current, voltage; short press DOWN key to sequential circularly display the voltage, current, energy, power and time.
2. When load power larger than the alarm threshold, no matter the current parameter display state it is, will return to power display menu immediately and flicker to alarm.
3. Menu display has a memory function that is after re-power on it will restore the display item before power off.

E. Precautions

1. This module is suitable for indoor, please do not use outdoor.
2. applied load should not exceed the rated power.
3. wiring order can not be wrong.

F. Specification parameters

1. Working voltage: 80 ~ 260VAC

- 2. Test voltage: 80 ~ 260VAC
 - 3. rated power: 20A/4400W
 - 3. Operating frequency: 45-65Hz
 - 4. Measurement accuracy: 1.0 grade
- G. Wiring diagram**

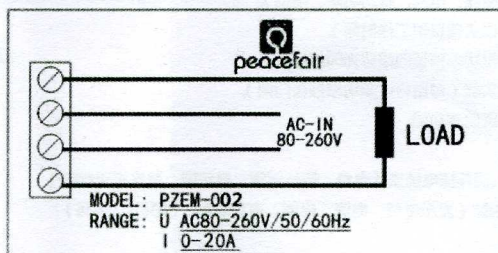


Figure1 Wiring diagram

H. Dimension diagram

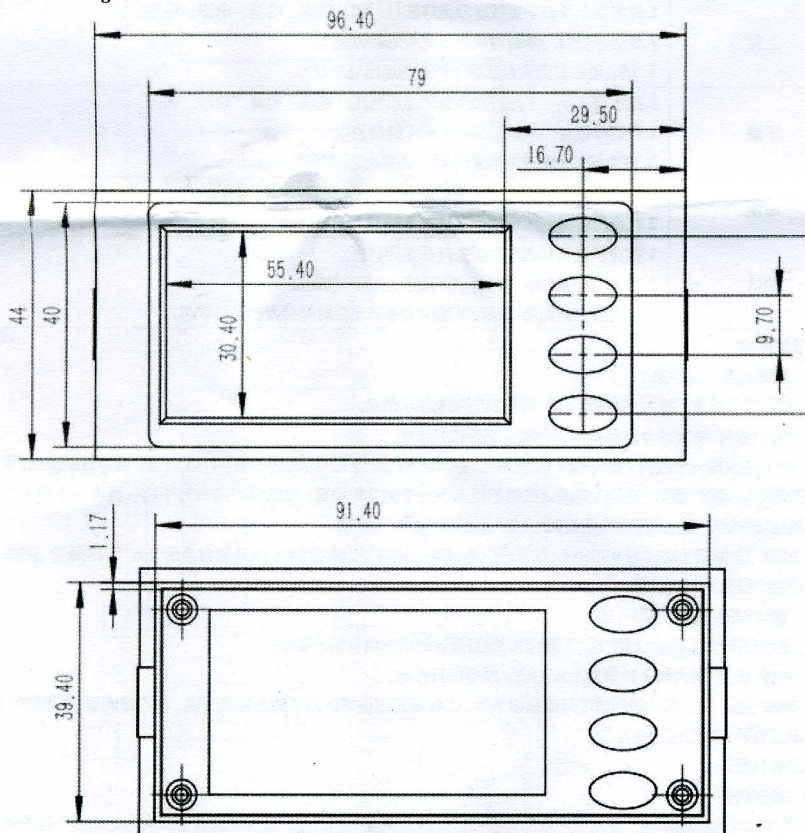


Figure 2 Dimension diagram (mm)