Schneider Electric PMB05 Digital LCD Power Meter Instruction Manual

Schneider Electric

Power Meter

PMB05

Contents

Introduction

Power Meter is an instrument which is used for monitoring real-time power consumption and electricity fee consumed of the connected electrical appliances, so as to help save energy and reduce the cost of the electricity consumed.

Product Feature

—7 Monitoring Modes
—Overload Warning
—Backup Battery
—Large LCD Screen

Parameter Display Range

Wide voltage range: 180VAC~250VAC
Current Display (amps) 0.000A — 65.00A
Wattage Display (watts) : 0.0W— 9999W
Frequency Display: 0 — 9999Hz
Electricity Cost: 00.00£ —9999£
Total KWh Display: 0.000KWh- 9999KWh
Unit Electricity Price display range: 00.00£/KWh—99.99£/KWh

Product Specification

Operating voltage: 240V, 50Hz
Rating: 13A/3120W
Operating Temperature: 0 ~ 40°C
Measurement accuracy ± 2%

Function Keys Introduction

RESET Button Used to reset the power meter when the LCD display abnormally or other buttons can’t work after pressing.
FUNCTION Button Used to adjust the monitoring mode.
COST Button Used to set the electricity price per KWh (Usually used in Mode 7).
“UP” and “DOWN” Button Used to adjust the electricity price per KWh to higher or lower.

Monitoring Modes Introduction

Mode 1 : Time/Watt/Cost Display
Under this mode, users could know the actual power(watt) and the total electricity cost of the connected appliances during the specific using period. Show like the figure 1.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1 in mode 2.
2. Actual Power(watt):

   The actual power(watt) of the connected device.
3. Cumulative Electricity Cost:

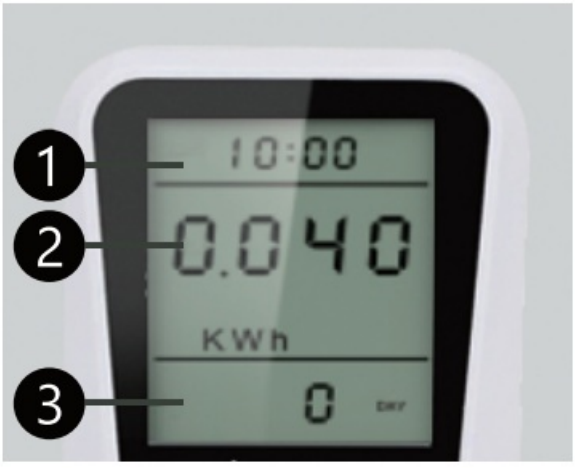
   The total electricity fee used during the running period.

Mode 2 : Time/ Total KWh Display
Under this mode, users could know the cumulative power consumption of the connected appliances during the specific using period. Show like the figure 2.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1.



2. Cumulative Electric Consumption:

   The total electric consumption(KWh) of the connected device.
3. Cumulative Running Days:

   The total running days of the connected devices.

Mode 3: Time/Voltage/Frequency Display
Under this mode, users could know the real-time voltage(Volt) and the working frequency (HZ) of the connected appliances during the using period.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1.

2. Actual Voltage:

   The real-time voltage (Volt).

3. Working Frequency:

   The frequency(HZ) of the connected device.

Mode 4: Time/Current/Power Factor Display
Under this mode, users could know the real-time current(amp) and the power factor of the connected appliances during the using period.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1.

2. Real-time Current:

   The real-time current(amp) of the connected device.

3. Power Factors:

   The power factors of the connected device.

Mode 5: Time/Minimum Power Display
Under this mode, user could know the minimum power(watt) recorded of the connected appliances during the

using period.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1.

2. Minimum Power(watt):

   The minimum power(watt) recorded of the connected appliances during the running period.

Mode 6: Time/Maximum Power Display

Under this mode, user could know the maximum power(watt) recorded of the connected appliances during the using period.

1. Running Time :

   The total time that the connected device operate. After 24hours, the “Day” display will automatically plus 1.

2. Maximum Power(watt):

   The maximum power(watt) recorded of the connected appliances during the running period.

Mode 7: Time/ Unit Price Display

Under this mode, user could set the electricity unit price (cost/KWh), eg. 00.68 £/KWh, like figure 7.

1. Running Time :

   The total time that the connected device operate.

   After 24hours, the “Day” display will automatically plus 1.

2. Unit Electricity Price: The unit electricity price(£) you set.

Steps to set the price below

Step1:
Enter the mode 7 by Pressing the “FUNCTION” Button about 7 times, could just press the “COST” button to enter the mode straightly.
Step2:
Set the price by long pressing the “COST” button about 4s till you see the icon 0:00 COST/KWh flashes.
Step3:
Adjust the price by pressing the “FUNCTION” button, press the “UP” and “DOWN” button to adjust the number up and down.
NOTE:
Press once to adjust the first number, press again to adjust the next number.
Step4
Finish the setting by pressing the “COST” button.
Overload Warning Display
When the power of the connected appliances exceeds 3680W or 16A, there will a warning “Overload” shows in the 2ed line of the LCD screen.
Like the figure 8.

Attention

1. With built-in battery, for the first time use or not used for a long time, you may need plug it into a socket for battery charging.
2. If the LCD screen shows abnormal or the function keys can’t work after press, you could use the pin included in the package to press the “RESET” button to reset the power meter.
3. Regarding the “Time” display, initially the LCD screen shows 0:00. After electrical appliances connected, the

time will be displayed as minutes and seconds, eg. 5:50(which means 5mins and 50s). After 10mins past, the time will be displayed as 4 numbers, eg, 11.50(which means 11 mins and 50s). Then after 60mins past, the time will be displayed as hours, minutes and seconds, eg. 1:50(which means 1 hr and 50mins). After 24 hours past, the time will be displayed as originally 0:00, meanwhile the “Day” display will automatically plus 1.

Documents / Resources

	Schneider Electric PMB05 Digital LCD Power Meter [pdf] Instruction Manual PMB05 Digital LCD Power Meter, PMB05, Digital LCD Power Meter, LCD Power Meter, Power Meter, Meter

References

- User Manual