



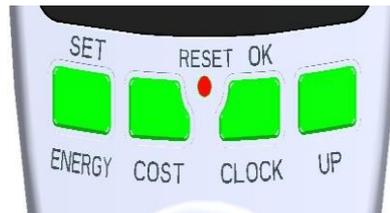
Dual Tariff Power Meter Instructional Manual

Model: OR-WAT-408, OR-WAT-408(GS)

• Function Description:

Dual tariff power meter is a smarter electronic device than single tariff power meter, which can measure energy and cost of household appliances, and help users reduce the power bill and carbon emissions.

Display:



Pull out the plastic pull tab:



• Operation Steps:

Firstly remove the plastic pull tab from the battery compartment cover of PM (as shown in the above picture); finally put this product into power supply. It means PM can start work, then please set as follows:

1. Display mode: Turn on the power supply, the LCD screen of PM will show the whole content (as shown in the above picture, it will last about 3 seconds).

2. Display and setting:

2.1 Clock display:

The first rank displays \odot and 0:00. Before 60 min, the first number regards as mins (after 10 mins display two numbers), the next two numbers regard as sec. After 60 min, the first number regards as hour (after 10 hours display two numbers), the next two numbers regard as min.

2.2 Clock setting:

Keep pressing "CLOCK" button over 3 sec, it will enter into time setting mode. Twinkling number can be selected when press "SET" button, then press "UP" button for setting. When you finish, pls press "OK" button. It will save your setting, and display the clock time.

2.3 Cumulative time display:

When PM detected power overload 2w, it starts to cumulate time, the LCD display 0:00. Before 60 min, the first number regards as mins (after 10 mins display two numbers), the next two numbers regard as sec. After 60 min, the first number regards as hour (after 10 hours display two numbers), the next two numbers regard as min. When the time is above 24 hours, the cumulative time will reset.

2.4 Change-over between clock time and cumulative time:

"CLOCK" button works for change-over between clock time and cumulative time. For example, if you press "CLOCK" button when LCD displays clock time, it will change to cumulative time. The first rank displays hour part, the second rank displays day part (range: 0.000-9999 days). When LCD displays cumulative time, the \odot will disappear.

2.5 Cost display:

The second rank shows the electric charge and so on, press "COST" button, it will take turns to show: accumulative electric charge (range: 0.000~9999 COST) → accumulative electric power (range: 0.000~9999 KWH) → Volume Kg of CO₂ (range: 0.000~9999 kg CO₂, 1kwh change into 0.998 kg CO₂) → rate of electric charge (range: 0.000~9999 COST/KWH, the default value of system is 1.00 COST/KWH).

Remark:

When electric charge and price are displayed on LCD, the currency symbol are always existed, and the system regard as initial currency \pounds .

2.6 Cost setting:

Press "COST" button over 3 sec, it will enter into electric charge setting mode, then pls set as follows:

A. This PM has four kinds of currency symbol, such as \pounds (money symbol); £ (pound); \$ (usd); € (euro). Press "UP" button to choose the symbol that you want, then press "OK" button to finish.

B. When finished the currency setting, pls press "UP" button to choose the tariff. Simple tariff is "TARIFF 1", dual tariff is "DUAL TARIFF". Press "UP" button to choose what you want, then press "OK" button to finish.

C. If you choose "DUAL TARIFF", pls press "SET" button to choose the twinkle number (the second rank of LCD), then press "UP" button to set rate (range: 0.000~9999 COST/KWH). When finish, pls press "OK" button.

D. Then “time start” displayed on LCD, pls press “set” button to choose the twinkling number (first rank on LCD), then press “UP” button for setting (range of first two numbers: 0-23; range of last two numbers: 0-59). When you finish, pls press “OK” button. When finished all setting, pls press “COST” button for saving all parameter, then it will enter into initial LCD displayed mode..

Remark:

A. If choose simple tariff “TARIFF 1”, you just need to set the rate of “TARIFF 1”, then press “COST” button for saving all parameter, then it will enter into initial LCD displayed mode.

B. When set price parameter, the currency symbol must be displayed.

C. If the system is in “DUAL TARIFF” mode, finished tariff 2 means the start of tariff 1; finished tariff 1 means the start of tariff 2.

2.7 Electricity parameter display and setting:

A. Press “ENERGY” button, the third rank will take turns to show: present power (range: 0.000~9999W) → present voltage (range: 0.000~9999V) → present frequency (range: 0.000~9999Hz) → present current (range: 0.000~9999A) → present power factor (0.000~1.000 POWER FACTOR) → max overload watts (range: 0.000-9999 W) → MIN overload watts (range: 0.0W-9999 W) → overload alarm setting watts (range: 0.000-9999 W).

B. Press “ENERGY” button more than three seconds, it will enter into “OVERLOAD” watts setting, the “OVERLOAD” on the screen will blink, press “SET” button to select, then press “UP” button for setting. When finished, pls press “ENERGY” button.

Remark:

A. If you press the button but don’t do any response, it will quit the OVERLOAD automatically.

B. When current load power exceed the overload parameter which seted before, the “OVERLOAD” will keep twinkling, it means dangerous and have safety loophole, system regard as initial parameter 3680W.

● **Remark:**

1. The letters “COST” which is on the upper left corner of second rank, and the letters “ENERGY” which is on the upper left corner of third rank will always display on LCD.

2. In setting mode, keep pressing “up” button, the number will increase rapidly, then will stop if you stop.

3. Time will be accumulated after monitoring the load power, but it should be at least 2W.

4. If there is an abnormal display appears or the buttons have no response, pls press “RESET” button for recovering.

● **Technical Parameters:**

Voltage: 230Vac/50Hz

Max load current: 16A

Max load power: 3680W

● **Working condition:**

Working Voltage: 175Vac~276Vac

Voltage Frequency: 45-65HZ

Working Current: ≤16A

Working Temperature: 0-50°C

● **Exception Analysis:**

1. Please check whether the power meter and power supply is in good connection.

2. Please check whether the power meter and electric appliance is in good connection.

3. Please check the battery in the power meter whether can be normally used.

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