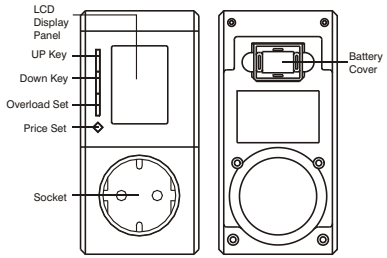
PM-300 POWER METER
USER MANUAL

About the PM300

PM300 is a power meter that allows you measure the energy consumption of electrical appliance, and by entering the electricity rate, to calculate the total cost of an appliance's power consumption. It also detects the overload condition and usage information. To fully utilize the function of the power meter, please read the rest of the manual.



Quick User Guide

MEASUREMENT
- Press A(UP) key to select Voltage , Amp, Max AMP, Watt , Max Watt and Overload Display
- Press B(DOWN) key to select KWh, Total Cost and Price

SET PRICE
- Press B(DOWN) key to select Price display Mode
- Press D(PRICE SET) key to enter Price Setting Mode
- Use A(UP) or B(DOWN) key to adjust price and press D(PRICE SET) key to confirm

SET OVERLOAD WARNING
- Press A (UP) key to select Overload Display Mode
- Press C (Overload Set) key to enter Overload Setting Mode
- Press A(UP) or B(DOWN) key to select desired W or A
- Press C (Overload Set) key to enter to Value Setting Mode
- Use A(UP) or B(DOWN) to adjust to desired value of Over Load Watt or Amp and press C(OVERLOAD SET) key to confirm

CLEAR MAX LOAD
- Press and hold A (UP) & C(OVERLOAD SET) key for 3 seconds to clear the Max Load readings and buzzer beep

CLEAR USAGE READING
- Press and hold B (DOWN) & D(PRICE SET) key for 3 seconds to clear "usage time " and "KWh" reading , buzzer beep

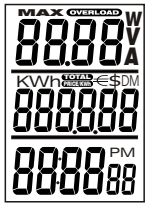
Battery

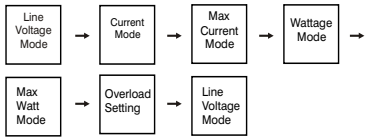
Before operating, two 1.5V (type LR-44 or AG-13) button cell batteries (included) should be installed into the unit.
- Unplug the unit from the outlet
- Put the two batteries into the compartment while observing the correct polarities as shown on the battery compartment.
- Place the cover back onto the unit.

The two batteries serve to backup the readings and electricity rate in case of power failure or when the unit is unplugged from the outlet.

Note: If you have to leave the unit unplugged for a long period of time (more than a month), the batteries should be removed in order to conserve battery consumption.

LCD Display





1. Volt Mode
Line voltage (in V) is displayed on the top pane. Press **UP** key will go to Current Mode.


Fig.1

2. Current Mode
In this mode, present current (in A) drawn by the load is displayed. Press **UP** key will go to MAX. Current mode.


Fig.2

3. MAX. Current Mode
In this mode, the maximum current is displayed.This reading will be held until another higher reading is captured and save as the new Max. current.


Fig.3

4. Wattage Mode
In this mode, real power (in Watt). The calculation of the power consumed by the load, in watt, is resulted from multiplying the voltage, current and power factor (power = voltage x current x power factor). The resolution of power consumed is 1 watt. Press **UP** key will go to MAX. Wattage mode.


Fig.4

5. MAX. Wattage Mode
In this mode, the maximum wattage is displayed. This reading will be held until another higher reading is captured and save as the new Max. Wattage.


Fig.5

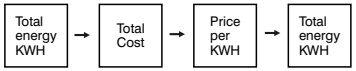
6. Overload setting Mode
In this mode, "OVERLOAD" symbol is lighted ON. The default setting of "overload wattage" is 0 W. Press **OVERLOAD** key, the symbol "W" flash means "overload wattage" is selected. Press **UP** or **DOWN** key to toggle between "W" and "A". Flash "A" means "overload current" is selected. Press **OVERLOAD** key again, the first digit flash,use **UP** key or **DOWN** key to set the desired value of the first digit. Press **OVERLOAD** key to select next digit, and so on.


Fig.6

Press and hold the **UP** key and **OVERLOAD** together for about 3 seconds, all MAX reading will be clear to zero.

MID PANE

Press the "DOWN KEY" key to view each of the following 3 mode's status. All of these information are displayed on the middle pane.



1. KWh Mode

This mode displays the total accumulated energy used by the appliance (in KWh) from the start of measurement. The resolution is 0.01 KWh and the maximum is 9999.99KWh. Press **DOWN** key will go to Total Cost mode.


Fig.7

2. Total Cost mode

The accumulative energy cost used by the load is calculated. When the cost is over $999.999, there will be no decimal place, so the total cost can be shown up to $999999. The total cost is based on the price set in Price/KWh mode.
Press **DOWN** key go to Price/ KWh mode.


Fig.8

3. Price/ KWh mode

In this mode the price per KWh is displayed and set. The rate set here will affect "cost of the energy used".