

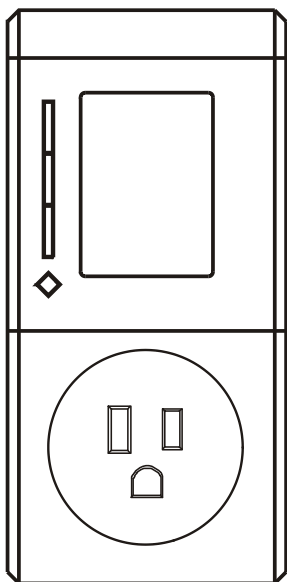
EM100 electronic energy meter

OWNERS MANUAL

Congratulations on your purchase of a UPM energy meter. Please take the time to read and understand this manual so you can begin to enjoy the energy saving benefits this product has to offer.

FEATURES

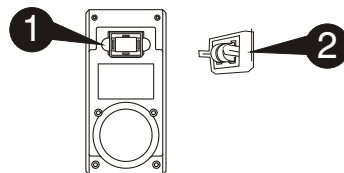
- Overload warning
- Energy monitor and energy consumption tracking
- Maximum current and wattage readings
- Energy cost calculation
- Energy usage time



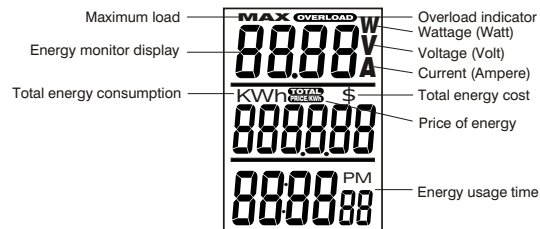
GETTING STARTED

battery installation

- 1 remove the battery cover from the back of the unit
- 2 place 2 button cell batteries between terminals observing proper polarity then replace cover

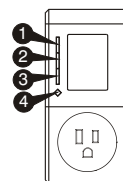


display



- 1 ↑ - scrolls through line voltage, line current, max current, wattage, max wattage and overload warning mode
- 2 ↓ - scrolls through total energy, total cost, and energy price mode
- 3 **OVERLOAD** - overload set
- 4 **PRICE** - price set

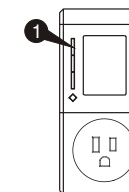
button placement



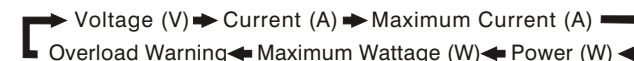
ENERGY MONITOR

TOP PORTION OF LCD DISPLAY

- 1 Press ↑ to view the line voltage, line current, max current, wattage and max wattage readings; displayed in the top portion of the LCD
- Line Voltage - voltage (V)
 - Line Current - current (A)
 - Max Current - max current (A)
 - Wattage - real power (W) where power = voltage x current x power factor
 - Max Wattage - maximum wattage (W)

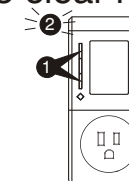


- * Modes are arranged in a circular pattern:
Top portion of the LCD



to clear max load

- 1 Press and hold ↑ and **OVERLOAD** together for 3 seconds to clear max current and max wattage readings
- 2 Beep indicates that max current and max wattage readings are cleared



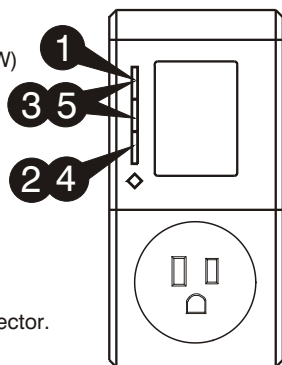
OVERLOAD WARNING

TOP PORTION OF LCD DISPLAY

The overload warning function allows you to safeguard against exceeding a preset load capacity. The 'overload' indicator will flash and the alarm will sound continuously to warn you in the case of an overload.

setting the overload parameter

- 1 Select overload warning mode using ↑
- 2 Press **OVERLOAD**
- 3 Toggle between overload in wattage (W) or current (A) using ↑ or ↓
- 4 Press **OVERLOAD**
- 5 Adjust the desired parameter value using ↑ or ↓. Press **OVERLOAD** to set each digit.



- * **ATTENTION:**
This energy meter is NOT a surge protector.

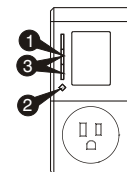
ENERGY CONSUMPTION AND COST

MIDDLE PORTION OF LCD DISPLAY

The price setting function allows you to input the electrical rate in \$/kWh to calculate the total cost of energy consumption.

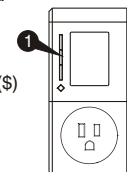
setting the price of energy

- 1 Select energy price mode using ↓
- 2 Press **PRICE**
- 3 Adjust the value using ↑ or ↓. Press **PRICE** to set each digit.



total energy used and total cost

- 1 Press ↓ to view total energy used and total cost incurred
- Total Energy - Total accumulated energy used by the load (kWh)
 - Total Cost - Total accumulated energy cost incurred by the load (\$) based on the user-set price (\$/kWh) and total energy (kWh)



- * Modes are arranged in a circular pattern:
Middle portion of the LCD



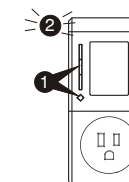
ENERGY USAGE TIME

BOTTOM PORTION OF LCD DISPLAY

The bottom portion of the LCD display keeps track of the accumulated energy usage time - "power on" time.

to clear energy usage time/total energy used

- 1 Press and hold ↓ and **PRICE** together for 3 seconds to clear energy usage time and total energy used (kWh)
- 2 Beep indicates that energy usage time and total energy used are cleared



TECHNICAL SPECIFICATIONS

Ratings: 120 V AC, 15 A
Max Load: 1800 W