



SETTING UP YOUR OWL

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WIRELESS ELECTRICITY MONITOR
SETTING UP DATE AND TIME

PRESS MODE KEY until TIME OR DATE is showing on the LCD

PRESS SET KEY until TIME and flashing 24Hr is showing

PRESS UP or DOWN KEY to select 24Hr or 12Hr PRESS SET

PRESS UP or DOWN KEY to select the hour PRESS SET

PRESS UP or DOWN KEY to select the minutes PRESS SET

PRESS UP or DOWN KEY to select DDMM or MMDD PRESS SET

PRESS UP or DOWN KEY to select month PRESS SET

PRESS UP or DOWN KEY to select day PRESS SET

TIME AND DATE are now SET

PRESS MODE KEY to switch between Display MODES.

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WIRELESS ELECTRICITY MONITOR
TARIFF SETTING

Your OWL has 2 Tariff MODES with 3 Tariff setting.

TIME MODE

If your tariff varies depending on the time of day your OWL can accommodate up to 3 settings.

Using Tariff 1 and Tariff 2 settings you can set each of these to start at a given time of the day.

You can also use Tariff 3 to set a third timed setting.

BLOCK MODE

If your tariff varies after a set amount of use your OWL allows you to set up a BLOCK amount of usage at one rate for a three month period, then switch to another rate for all usage after that amount has been used.

If you set the BLOCK tariff to start at a particular time of day then this amount will be applied from that start time each day becoming the third TIMED tariff in conjunction with Tariff 1 and Tariff 2 above.

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SINGLE TARIFF SETUP

This tariff setting will apply a single cost to all electricity use.

Following steps will allow you to set up a Single tariff:

1. Press [MODE] key until COST is showing on the LCD.
 2. Press hold [SET] key until a currency symbol is flashing.
 3. Press UP or DOWN keys to scroll through £, € or \$.
 4. Press [SET] key to confirm currency selection.
flashing ON or OFF will be displayed on the screen along with TARIFF 1 on the bottom left hand corner.
 5. Enable TARIFF 1
 - 5.1 Press UP or DOWN keys and scroll to 'ON'.
 - 5.2 Press [SET] key to confirm selection.
Time will be displayed on the screen.
 - 5.3 Press UP or DOWN keys to scroll start time Hour.
 - 5.4 Press [SET] to confirm selection.
 - 5.5 Press UP or DOWN keys to scroll start time Minute.
 - 5.6 Press [SET] to confirm selection.
Currency unit per KWH will be displayed on the screen for Tariff 1.
 - 5.7 Press UP or DOWN keys to scroll currency unit / KWH. (e.g. £/KWH or pence/KWH)
 - 5.8 Press [SET] to confirm selection.
 - 5.9 Press UP or DOWN keys to scroll each figure of the tariff cost and confirm selection by pressing [SET] key.
flashing 'ON'/'OFF' will be displayed on the screen along with 'TARIFF 2' on the bottom left hand corner.
 6. Disable TARIFF 2
 - 6.1 Press UP or DOWN keys and scroll to 'OFF'.
 - 6.2 Press [SET] to confirm selection.
flashing 'ON' or 'OFF' will be displayed on the screen along with TARIFF 3 on the bottom left hand corner.
 7. Disable TARIFF 3
 - 7.1 Press UP or DOWN keys and scroll to 'OFF'.
 - 7.2 Press [SET] to confirm selection.
- Your single tariff set up is now complete.



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WIRELESS ELECTRICITY MONITOR
TO SET UP A TWO TIERED TIME TARIFF

This tariff setting will set your OWL up to operate at two different rates depending on time of day.

Following steps will allow you to set up a two tiered time tariff:

1. Press [MODE] key until COST is showing on the LCD.
2. Press hold [SET] key until a currency symbol is flashing.
3. Press UP or DOWN keys to scroll through £, € or \$.
4. Press [SET] key to confirm currency selection.

A flashing ON or OFF will be displayed on the screen along with TARIFF 1.

5. Enable TARIFF 1

- 5.1 Press UP or DOWN keys and scroll to 'ON'.
- 5.2 Press [SET] key to confirm selection. **Time will be displayed on the screen.**
- 5.3 Press UP or DOWN keys to scroll start time Hour.
- 5.4 Press [SET] to confirm selection.
- 5.5 Press UP or DOWN keys to scroll start time Minute.
- 5.6 Press [SET] to confirm selection. **Currency unit per KWH will be displayed on the screen for Tariff 1.**
- 5.7 Press UP or DOWN keys to scroll through currency unit (e.g. '£' or pence)
- 5.8 Press [SET] to confirm selection.
- 5.9 Press UP or DOWN keys to scroll each figure of the tariff cost and confirm selection by pressing the [SET] key.

A flashing ON' or OFF will be displayed on the screen along with TARIFF 2 on the bottom left hand corner.

6. Enable TARIFF 2

Repeat steps 5.1 through 5.9 above to enable Tariff 2.

A flashing ON or OFF will be displayed on the screen along with TARIFF 3 on the bottom left hand corner.

7. Disable TARIFF 3

- 7.1 Press UP or DOWN keys and scroll to OFF.
- 7.2 Press [SET] to confirm selection.

Your two tiered timed tariff set up is now complete.



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WIRELESS ELECTRICITY MONITOR
TO SET UP A BLOCK TARIFF

Many electricity suppliers charge a BLOCK tariff where one amount is charged for the first amount of electricity used in the quarter, thereafter there is a lower amount charged.

Following steps will allow you to set up a block tariff:

Follow the steps on page four and disable Tariff 1 and Tariff 2.

7.1 Enable TARIFF 3

7.1 Press UP or DOWN keys and scroll to 'ON'.

7.2 Press [SET] key to confirm selection.

Date will be displayed on the screen.

8.1 Press UP or DOWN keys and scroll for a start month.

8.2 Press [SET] key to confirm selection.

Note: This will normally be the start date of your quarterly billing period. Time will be displayed on the screen.

8.3 Press UP or DOWN keys and scroll for a start time hour.

8.4 Press [SET] key to confirm selection.

8.5 Press UP or DOWN keys and scroll for a start time minute.

8.6 Press [SET] key to confirm selection.

This mode can be used to set up a third timed tariff in conjunction with Tariffs 1 & 2; the start time applies to this.

Display will show a flashing currency unit e.g. pence and 'TARIFF 3A' on bottom left hand corner

8.7 Press UP or DOWN keys to scroll through currency unit

8.8 Press [SET] to confirm selection.

8.9 Press UP or DOWN keys to scroll each figure of the tariff cost

8.10 Press [SET] key to confirm selection.

8.11 Press UP or DOWN keys to scroll each figure of the tariff block amount

8.12 Press [SET] key to confirm selection.

Display will show a flashing currency unit e.g. pence and 'TARIFF 3B' on the bottom left hand corner

9.1 Press UP or DOWN keys to scroll currency unit.

9.2 Press [SET] to confirm selection.

9.3 Press UP or DOWN keys to scroll each figure of the tariff cost

9.4 Press [SET] key to confirm selection.

Your BLOCK tariff set up is now complete.

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WIRELESS ELECTRICITY MONITOR
MIXED TARIFFS

You can set up your OWL to use both Time tiered and BLOCK tariffs.

If you setup Tariff 1 and 2 to start at a given time each day.
At that time each day the OWL will switch to using that rate
for its calculations of your energy use cost.

If you also setup Tariff 3 A and B for a BLOCK tariff
at the start time given each day it will switch to using that cost
for the cost calculations.

For example:

Set up Tariff 1 for 20p per unit from 7.00 am

Set up Tariff 2 for 10p per unit from 11:00 pm

Set up Tariff 3A 100 Kwhr from 1:00pm 1st January at 25p per unit
(Note you cannot set the Block usage to 0, but if the cost for tariff
3A and 3B is the same, then this is effectively a zero BLOCK amount)

Set up Tariff 3B for 15p per unit.

Between 1pm and 11pm each day the tariff applied will be 3A
(25p in our example) until the 100KWhrs have been used up,
then each day from 1pm to 11pm the tariff applied will be 15p per unit.

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WIRELESS ELECTRICITY MONITOR
ENERGY SETTINGS

From the Energy screen you can PRESS SET key to adjust the following parameters:

Voltage - This should be set to the nominal value for your electricity supply, unless you have a more accurate reading which can then be applied.

For 3 Phase use you should normally use the single phase line to neutral value, unless you have a delta wired configuration (line to line) at which point you would use that voltage instead. Note the Owl micro+ Is not currently configured for 3 Phase use.

MAX value is a setting which allows you to set up a warning for overuse of electricity at any given time.

If you go above that figure the Digital display will Flash to indicate that you have gone over your MAX value.

Target figure is a setting which allows you to set a figure for what you would like to keep your electricity down to in a day.

If you go above that figure the graph on the side will flash those bars which are beyond your target figure value.

The graph values change depending on this figures setting.

If you set a figure between 0 and 30, then the graph shows 0 to 30KwHr

If you set a figure between 30 and 300, then the graph scale is x10

If you set a figure between 300 and 3000 then the graph scale is x 100



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WIRELESS ELECTRICITY MONITOR
ENTERING ENERGY SETTINGS

TO SET VOLTAGE:

PRESS MODE KEY until ENERGY is shown on the LCD.

PRESS SET KEY until VOLT shows and the LCD figures are flashing

PRESS UP or DOWN arrow until correct voltage for your supply is shown then PRESS SET

Note - Voltage can be set between 100V and 400V

PRESS UP arrow to select ON then PRESS SET

PRESS UP or DOWN arrow to select correct value

(See previous page) for each digit of your chosen MAX value

PRESS SET after each digit is selected correctly

PRESS UP or DOWN arrow to select correct value

(See previous page) for each digit of your chosen TARGET value

PRESS SET after each digit is selected correctly.

Your VOLTAGE, MAX and TARGET settings are now entered.

Generating electricity can result in the production of CO₂ and some of this is emitted into the atmosphere, this is the CO₂e figure. Your OWL comes programmed with the latest average electricity generation CO₂e figure for your location. However this figure varies from supplier to supplier, your electricity supplier should be able to furnish you with a figure for their own generation per kWhr if you ask them.

To enter the new figure into the OWL:

PRESS MODE until you are in CO₂e display mode.
PRESS SET KEY until you see the Co₂e figure displayed
PRESS UP or DOWN arrow to select the relevant units
and PRESS SET key when you have selected correct units
PRESS UP or DOWN arrow to change the value to the correct
setting for your electricity supplier and PRESS SET KEY

Your new Co₂e figure is now entered and will be used
for calculations.

Pressing the MODE KEY will switch the display between:

COST - ENERGY - CO₂e - TIME - DATE - COST....

Pressing the UP and DOWN arrow will switch between:

NOW and TODAY displays

PRESS AND HOLD THE MODE KEY to switch to HISTORY MODE

UP and DOWN arrow will switch between:

THIS DAY, LAST DAY, THIS WEEK, LAST WEEK
THIS MONTH, LAST MONTH

PRESS AND HOLD THE MODE KEY to switch to AVERAGE MODE

UP and DOWN arrow will switch between:

AVERAGE DAY, AVERAGE WEEK, AVERAGE MONTH

You can perform two levels of RESET on your OWL

You can RESET the TOTAL to zero by pressing the MODE AND SET KEYS together for 5 seconds. This will allow you to watch cost or energy usage for a particular event. It will not clear your history MODES so all previous data is maintained.

Your OWL can be reset to factory defaults. The RESET button is recessed into the battery compartment. This will require a pin or something similar to access. Please be careful not to use excessive force on this switch as it may damage the electronics inside.

PRESSING THE RESET BUTTON WIPES ALL MEMORY

If you press the RESET button it will set the monitor back to its factory default settings and all user history and user input settings will be lost. The unit will also need to be paired to its transmitter again after a rest.