SPECIFICATIONS:

Model Name/Number: efergy lite 1.0

Frequency: 433 MHz

Transmission: Every 6 Seconds

Transmision Range: 40-70m

Voltage Range in the Sensor: 110V-300V

Sensor Capacity: 60mA - 56A

Memory Space:64K

LED:
The display unit's LED
backlight will only be activated
during the the following times:

Feb - Apr: 18:00 - 6:30
May - Jul: 20:00 - 5:00
Aug - Oct: 18:00 - 6:00
Nov - Jan: 16:00 - 7:00

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How to contact us:
If you have any questions about using your efergy smart meter, or if you'd like further advice of energy saving at home or at work,
please feel free to contact us: Call efergy on 08450 177 769

Efergy will answer any installation or set up questions and offer quick energy saving tips.
Lines are open between 8.30am and 6pm Monday to Friday. Calls are charged at local rate.
You can also email us: info@efergy further information is also available at www.efergy.com

CONTENTS

efergy.com

Energy metering and monitoring are at the heart of energy management: you need the information to tell when and where you're saving money.

Electricity display devices are the first step on the road for smart metering. These show, as the name suggests, the amount of energy that a household is consuming at the time the display is read and converted to a rough measurement of financial cost. You can walk around the home with them, switching devices on and off, and see the difference that this makes.

How to contact us

If you have any questions about using your efergy monitor or if you'd like further advice on monitoring electricity at home, please feel free to contact us, or visit the website for up to date information, downloads, and frequently asked question.

Email your questions at **info@efergy.com**
We aim to answer all emails within 48 hours.
Efergy customer service: 08450 177769
All calls are charged at the local rate

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IT IS IMPORTANT THAT YOU OBSERVE SOME SIMPLE PRECAUTIONS BEFORE USING THIS PRODUCT:

When installing the Electricity Display Device you should find that everything is relatively straight-forward. However, there are number of important health and safety issues which you need to be aware of.

Before installation

Please read and act upon the important information on the following pages. Remember the device is not intrusive and does not require any rewiring.
A quick inspection of the meter should soon give an indication on the installation. If you notice anything unusual about the electricity supply, such as loose wires, exposed cabling, burn marks or holes in the insulating materials, damage to the meter, then stop immediately and report the findings to your electrician.
There will be a number of cables entering and exiting the electricity meter (see diagrams, page blabla). Identify the correct cable to attach the sensor. Make sure the feed cable is accessible and at least 150mm (6") of cable from the meter to the fuse box. If access to the correct cable is restricted, do not carry on with the installation. Be sure there is enough room to connect the sensor to the cable.

During installation

Do not force or bend the cables at any point during the installation. The sensor needs to fit around the cable four. Cable four is the live cable exiting from the meter to the customer CTU (fuse box).

If you are worried or have any concerns on installation please contact your electrician immediately.

After installation

The user does not need to remove the sensor through the working life of the unit. Battery changes are performed on the transmitter and the display. You only change the batteries in the transmitter and display. There are no batteries to change in the sensor.

YOUR EFERGY PACK
INCLUDES:

1x Sensor
1x Transmitter
1x Display Unit

You will need to fit the sensor to the live feed cable which connects the meter to the fuse box (consumer unit). Any power you use in your home will pass through this cable. Therefore the sensor can be installed on the electricity meter or in the fuse box.

The clip-on sensor acts as a current sensor, and relays the current being drawn in the home, to the transmitter. From there it is sent wirelessly to the monitor display unit, which shows how much power is being consumed.

WARNING:

IF YOU ARE IN ANY DOUBT WHEN FITTING THE SENSOR, STOP AND CONSULT A QUALIFIED ELECTRICIAN. EXTREME CARE MUST BE TAKEN WHEN WORKING WITH ANY ELECTRICAL CONNECTION. TO FIT THE SENSOR, YOU WILL NEED ACCESS TO THE CABLE SUPPLYING POWER TO YOUR ELECTRICITY METER. IF YOU CANNOT ACCESS THIS CABLE OR YOU ARE UNSURE WHICH THE CORRECT CABLE IS, CONSULT A QUALIFIED ELECTRICIAN.

Sensor   Transmitter

Display Unit

efergy
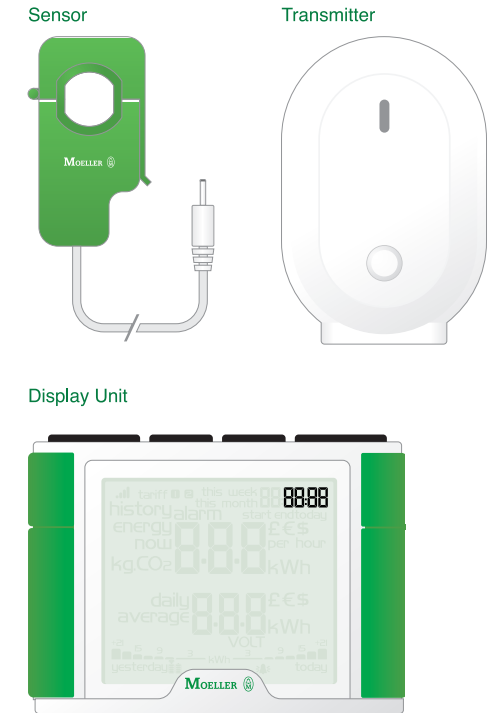
STEP 1. LOCATE THE ELECTRICITY METER

Locate your electricity meter and determine its type. It is normally on an outside wall, in the garage, basement or utility room. If you live in a flat, it can often be found outside your front door, in the communal staircase, or in the basement. Ensure there is enough of accessible cable coming from the bottom of your electricity meter.

Modern office blocks and apartments may have safety panels to protect wires entering the meter. It is recommended that professional electricians be contacted where this is the case.

STEP 2. FIND THE FEED CABLE

You should find 4 cables exiting the meter. The feed cable (Cable 4) is the live cable exiting from the meter to the CTU (fuse box). Always connect the sensor to Cable 4 (Cable 4 will always be further to the right of the meter).

Some installations will have Cable 1 and Cable 1 covered, or partially covered to prevent any tampering with the supply (see diagram below). Attach the sensor to Cable 4 (far right cable).
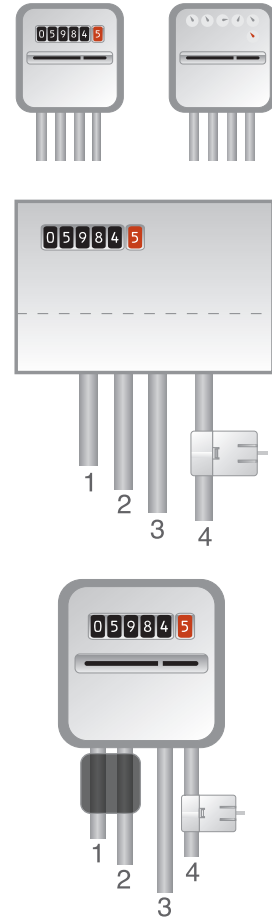
Dual Tariff meters will often have an Auxiliary cable running between Cable 3 and Cable 4. Auxiliary cables will be smaller in diameter than the feed cables, and will run into an adjoining metering device.

Newer installations will normally have two cables exiting from the bottom of the meter. One is the earth cable, the other is the live feed cable. The sensor should be clipped around the live feed cable which will be coloured brown.

If you have a three phase supply, or economy 7 meter, then you may require additional sensors. These can be simply plugged into the additional sockets at the base of the transmitter. Please contact your supplier for additional sensors.
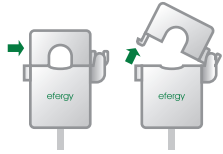
Dual Tariff Meter

Cable 4

Auxiliary Cable
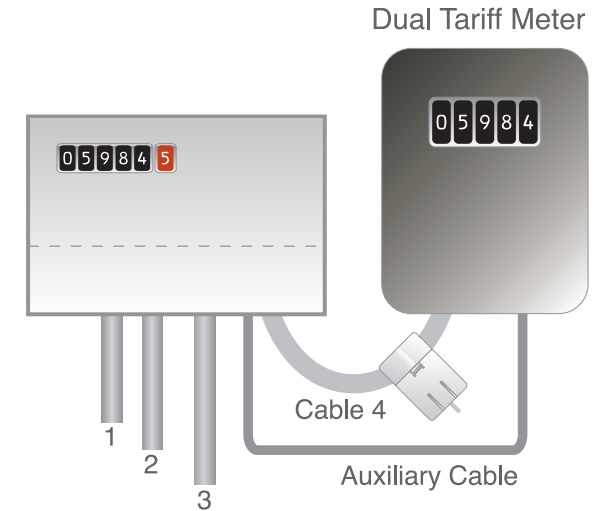
Safety

UNDER NO CIRCUMSTAN-CES SHOULD YOU TRY TO ATTACH THE SENSOR IF THERE IS ANY DAMAGE TO THE ELECTRIC METER CABLES. NO CABLES NEED TO BE CUT. DO NOT CUT ANY CABLES.
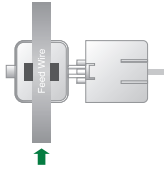
CONTACT YOUR LOCAL ELECTRICITY SUPPLIER IF YOU HAVE ANY CONCERNS ABOUT CLIPPING THE SENSOR ONTO THE CORRECT CABLE.

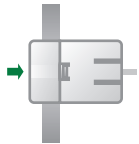efergy

STEP 3. FIT THE SENSOR

The sensors needs to be fitted to the live feed cable. The e.lite sensors are only suitable for cables up to 11mm in diameter. You shouldn't force the cable to fit or the sensor may break.

STEP 4. PLUG THE SENSOR CABLE INTO THE TRANSMITTER

Inserting the jack on the end of the white cale into any of the 3 input sockets on the transmitter, the clip-on sensor acts as a current sensor and relays the current being drawn in to the home to the transmitter.

5. LINKING THE TRANSMITTER & MONITOR

Ensure batteries are inserted in the transmitter and display unit. Press the Link Button on the reverse of the display unit. The SIGNAL symbol ▪▪▪ should flash first and then appear solid when the initial transmission is completed. The LED light in the transmitter will also flash every six seconds to confirm the connection is active.

link

Push the LINK BUTTON on the reverse and the information sent by the transmitter will be displayed on teh screen.

1. Push the release cap to open the sensor.

2. Select the correct feed wire, then place the feed wire into the top of the sensor.

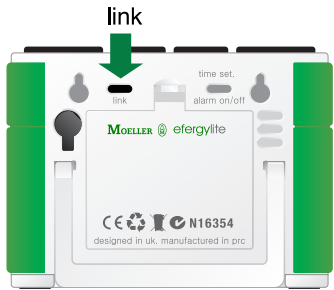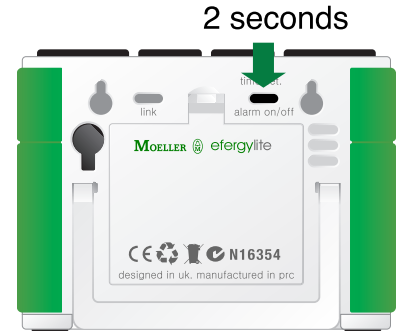3. Close the sensor. The sensor is secure when a "click" is heard.

SETTING TIME AND DATE

The efergy needs to know the time and date in order to rpovide you with the correct information. Once the unit is activated:

STEP 1.
On the reverse of teh display you will find the **time button**. Press and hold for 2 seconds. Time set up will flash in teh display.

STEP 2.
Set the hour to the correct time, using **BWD** and **FWD**. Press **Mode Button** once to save and move onto minutes set up.

STEP 3.
Repeat for minutes, pushig **Mode Button** to confirm, and move on to the date set up.

STEP 4.
Set the date by using the **BWD** and **FWD**. Press **Mode Button** to confirm and move to month. Repeat the same process, using the arrows. Once the correct time and date is set push top **Esc. Button** to save and exit.

2 seconds

Esc.   BWD FWD   Mode
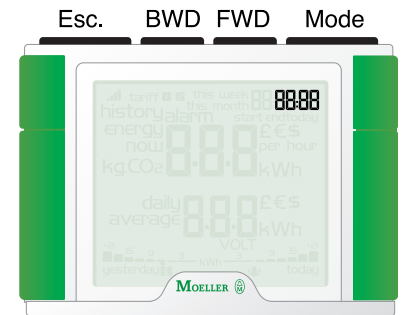
SET-UP INSTRUCTIONS

The efergy needs to know the unit cost of your electricity supply, which tariffs you use, voltage and an alarm for maximum usage. The following 4 steps will move through each of these settings. If you have dual tariff rate meter, please overleaf.

Press and hold down MODE BUTTON for 2 seconds, this will enable you to enter the setting mode.

Mode

2 seconds

Esc.   BWD   FWD

SPET 1. SINGLE TARIFF SET UP

Press and hold **Mode Button** for two seconds. On release you will see the **tariff ❶** symbol flash. If you are charged one single tariff push **Mode Button** to confirm. The firs setting is the tariff mode. Single tariff sign will flash as default value. Accept the single tariff pushing **Mode Button**.
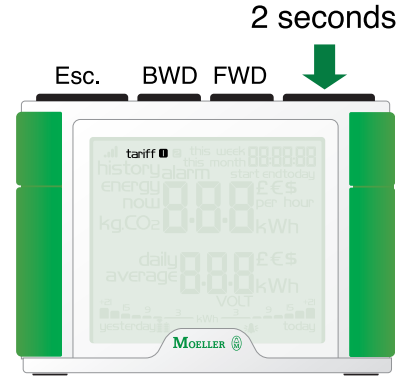
STEP 2. ELECTRICITY COST

Select the currency using **BWD** and **FWD**. Default currency will be "£". Push **Mode Button** to confirm. The cost per kWh will now flash.
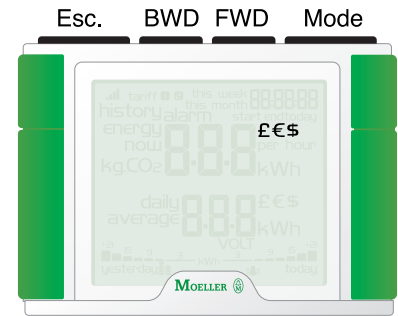
Note: 20 seconds of inactivity in setting mode will retur the unit to normal display mode without saving changes.

Esc.   BWD   FWD   Mode

Default cost is 11p/kWh. This is the average price per kWh electricity companies charge. Use **BWD** and **FWD** to change the cost per kWh. Press **Mode Button** to save your setting. Voltage setting will flash.

Push the MODE BUTTON to move to teh next function setting
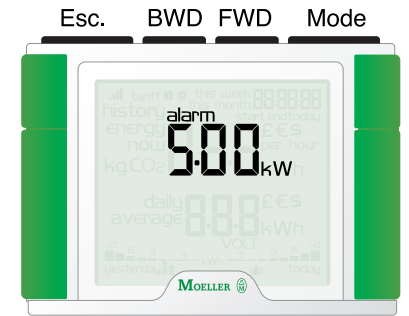
Mode

Esc.   BWD   FWD   Mode
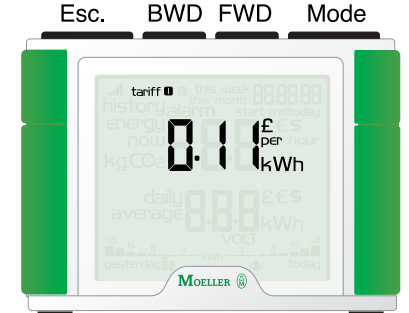
STEP 3. VOLTAGE SET

Default voltage is set as 230V. Use **BWD** and **FWD** to change teh cost per kWh. Press **Mode Button** to save your setting. Alarm set up will now flash.
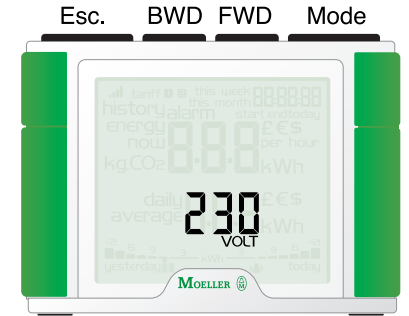
STEP 4. ALARM

Default Alarm setting is 5kW. At any time, if the alarm is on, and you are using more than 5kW, the alarm will sound. This value can be decreased / increased using **BWD** and **FWD**. Press **Mode Button** to store the value. Once this is made, press **Esc. Button** to exit the function setting mode. To activate / deactivate teh Alarm at any time push **Alarm Button** on the reverse of the display.

Esc.   BWD   FWD   Mode

Quick Hint   Throughout the set-up process, push ESC. BUTTON at any time, your settings will be saved & you will exit the function setting mode.

Esc.   BWD   FWD   Mode

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If you have a dual tariff rate electricity meter you may want to set up dual tariff function

ACTIVATION OF DUAL TARIFF

Press and hold **Mode Button** for two seconds. On release you will see the symbol **tariff ❶** flash. Press **BWD** or **FWD** to select dual tariff set up - **tariff ❷**. Push **Mode Button** to confirm. The symbols **start tariff ❶** will flash.

SET START & END TIME TARIFF 1

Set the hour that tariff one starts using **BWD** or **FWD** buttons. Press **Mode Button** to save and move to minute set up.

Set minutes using **BWD** or **FWD** and pushing **Mode Button** to confirm. The symbol **start** will disappear from the display and the symbol **end** will appear. Repeat the process for setting the end time for Tariff 1. Press **Mode Button** to save and move to currency set up.

Example: If you are on an economy-7 tariff which starts at 1am and finish at 8am, set **start tariff ❶** at 01:00 set **end tariff ❶** at 08:00. Push the Mode Button to confirm. Select teh currency and set the cost per kWh you pay for each tariff, likely to be approx 5p/kWh and 12p/kWh for night and day time rates accrodingly.

2 seconds

Esc.   BWD FWD

Esc.   BWD FWD   Mode

Esc.   BWD FWD   Mode
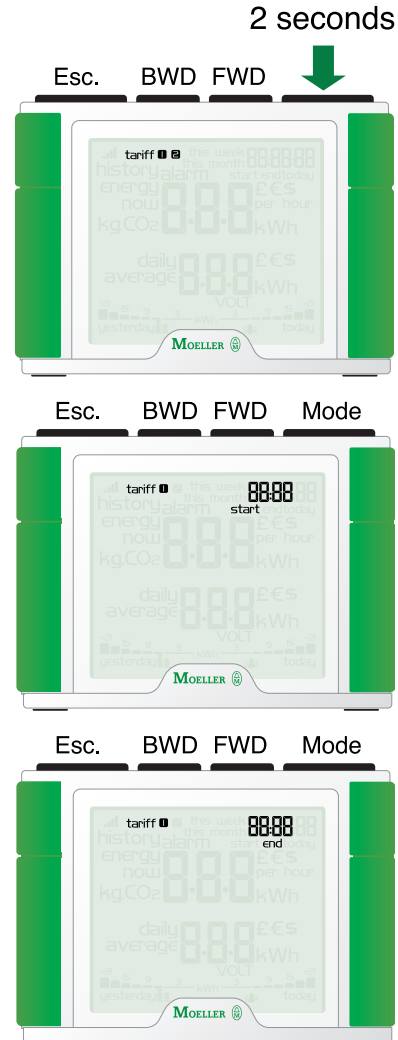
SET CURRENCY

Currency is set to "£". Select the currency using **BWD** and **FWD**. Press **Mode Button** to confirm. Cost for Tariff 1 will flash.

ELECTRICITY COSTS - TARIFF 1

Default price of 5p/kWh will flash. Use **BWD** and **FWD** buttons to change the cost per kWh. Press **Mode Button** to save your setting. Tariff 2 set up will flash.

ELECTRICITY COSTS - TARIFF 2

Default price of 12p/kWh for Tariff 2 will flash. Use **BWD** and **FWD** buttons to change the cost per kWh. Press **Mode Button** to save your setting. Voltage set up will flash.

Please follow steps 3 and 4 from **Set up instructions**.

Esc.   BWD FWD   Mode

Esc.   BWD FWD   Mode

efergy

11
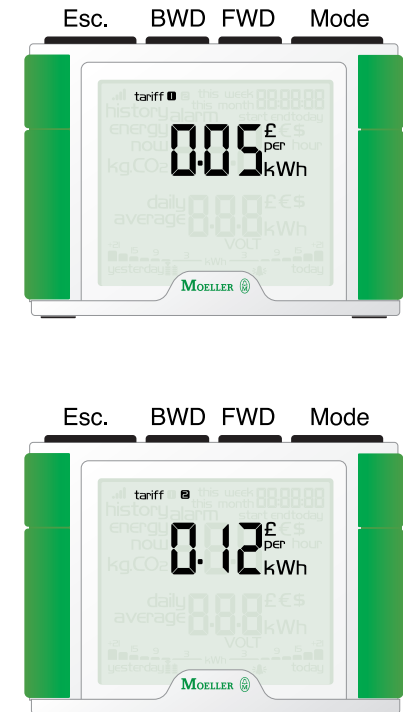
DISPLAY INFORMATION

The efergy electricity monitor shows instant, historical and average information.

Some of the information displayed will always be on teh screen regardless whether you are at INSTANT or HISTORY modes.

DAILY AVERAGE INFORMATION

Displayes your daily average consumption in kWh and costs. Push the **Mode Button** to change displayed information from kWh to costs.

GRAPHICAL DISPLAY

The bars at the bottom of teh display compare graphically your current energy consumption for the day with the previous day's.
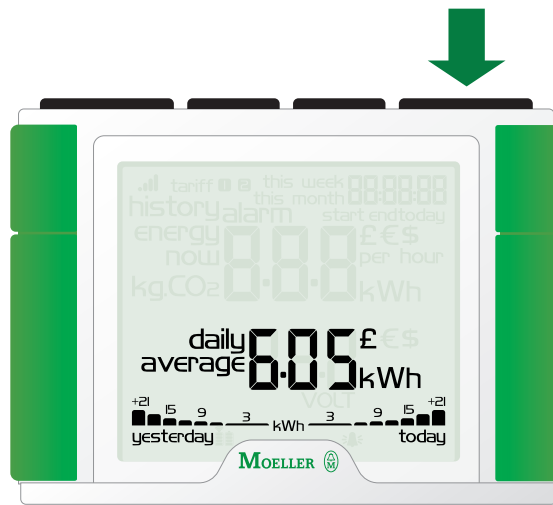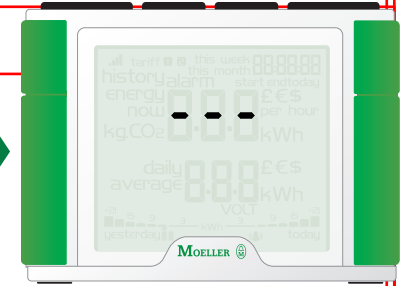
INSTANT MODE

Instant Mode Symbol

Push the Link Button on the back of teh display and the display unit will start receiving data.

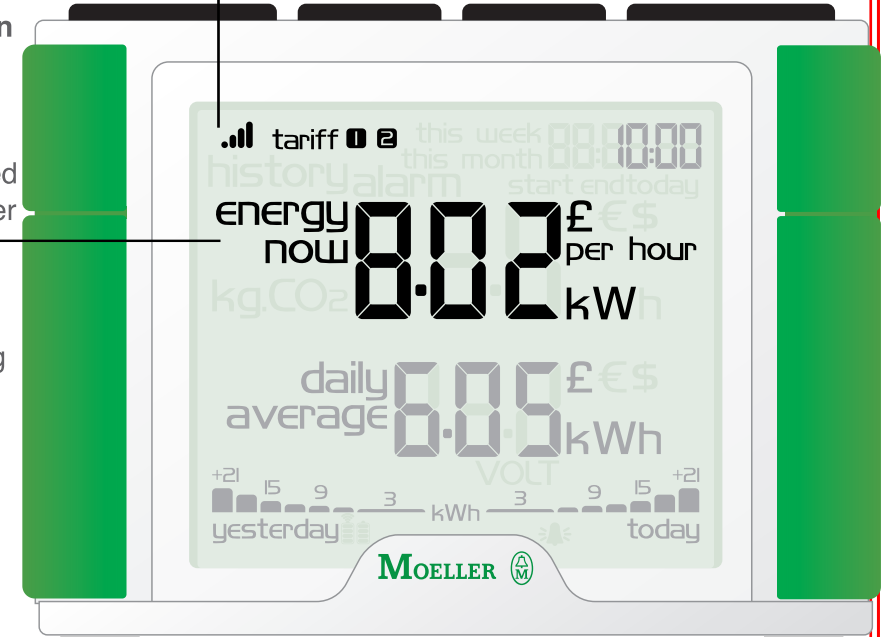If the Link is not completed you will still see dashes on the display.

Instant Information

Push the Mode Button to change information displayed from kW to costs per hour

Other features:
- Battery warning
- Alarm On sign

Days, weeks, months

Push the history button to move from daily to wekkly and monthly infromation

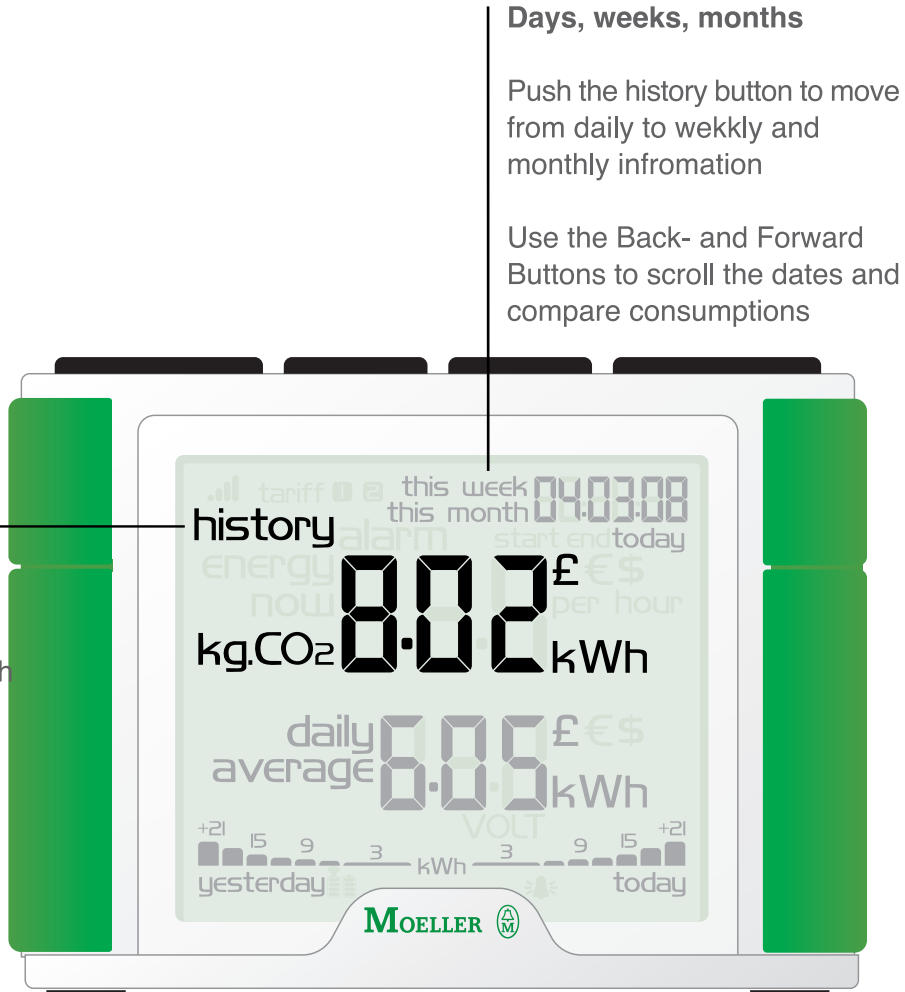Use the Back- and Forward Buttons to scroll the dates and compare consumptions

History

Push the History Button to access daily, weelkly and monthly stored information

Push the Mode Button to change information displayed from kWh to costs and CO2 emissions

history

tariff

this week **04.03.08**
this month

alarm   start end today

energy   £ € $
now   per hour

kg.CO₂ **8·02** kWh

daily   £ € $
average **8·05** kWh

VOLT

+21 15 9 3 — kWh — 3 9 15 +21
yesterday   today

MOELLER