

## Digital electricity consumption meter

0775 0119

This device records electricity consumption and is able to calculate the costs. To prevent damage, it should not be subject to overload. Always follow the instructions and the information on the identification label of the connected appliance. The use of the device in a way different than instructed can lead to damages, and can cause short cuts, fire, electric shocks, etc. The device must not be altered.

### Technical parameters

Voltage: max. 230 V ~ AC/50 Hz

Max. load: 3680 W/16 A

Measuring range: 2 W–3680 W

Measurement deviation:  $\pm 2\%$

### Operational conditions

Voltage: max. 230 V ~ AC/50–60 Hz

Max. load: 3680 W/16 A

Operating temperature: 0–40 °C

### Inserting / Replacing the batteries

The device is powered by two, pre-installed LR44 batteries. Pull the plastic tab on the back to link the contacts of the batteries and turn the device on. If the information on the display is not readable, the batteries will need to be changed. Remove the two screws on the back, open the cover and replace the batteries. Pay attention to the marked polarization.

### Time setting

Note: After ten seconds of inactivity, the values currently on displayed will be saved, returning to the default mode displaying the time. This applies to all settings. To manually return to the default screen, press “CLOCK”.

Press “CLOCK” for three seconds. The hour digits will start to flash at the top of the screen. Press “UP” to set the desired digit. Press “SET” to set the minutes and “UP” to set. Press “OK” to save the settings.

### Cumulative time

The device starts counting the time after detecting a load of at least 2 W. The time count is interrupted or resumed when the load is interrupted or resumed. Press “CLOCK” to see the cumulative time. The symbol (clock) disappears. Press “CLOCK” to show the current time again.

### Cost setting

Cost setting for single tariff. Press “COST” for three seconds. Most of the data on the display will disappear and the (flag) symbol will be shown.

This symbol represents the currency menu. Press “UP” to choose Pounds (£), Dollars (\$) or Euro (€). Any of the symbols can be chosen, it will not affect the calculation of the costs as it will not be converted to CZK. Press “SET” to switch between the set parameters and “UP” to change their values. Choose “Tariff 1”. Set the cost per kWh and confirm with “OK”. The device is now ready to calculate the costs in a single tariff mode.

### Dual tariff

This meter has a “Dual Tariff” mode. This feature is useful for those who use night tariff. The procedure to set it up is as follows:

1. Press “COST” for three seconds.
2. Press “UP” to choose the currency.
3. Press “SET” and choose “Dual Tariff”.
4. Set the cost per kWh for tariff 1 and press “OK” to set the time for tariff 1.
5. Press “SET” and “UP” to set the starting time for tariff 1. Press “OK” to set tariff 2.
6. Set the cost per kWh for tariff 2 and press “OK” to set the time for tariff 2.
7. Set the cost per kWh for tariff 2 and press “OK” to save the settings. The device will show the time again

The device is now ready to calculate costs in a dual tariff mode. Tariff 1 will be automatically activated at the set time and will be deactivated at the starting time of tariff 2, which in turn be deactivated at the starting time of tariff 1, and so on.

### Displaying costs

Press “COST” on the default display to show information in the following order:

total cost – energy consumed (kWh) – CO<sub>2</sub> produced – tariff 1 settings – \*tariff 2 settings.

Note: 1 kWh equals 0,998 kg CO<sub>2</sub>. \*Tariff 2 settings will be displayed only if the “Dual Tariff” mode is activated.

### Displaying electrical parameters

The electrical parameters appear at the bottom of the screen. Press “ENERGY” to switch between each parameter in the following order: current consumption (W) – current voltage (V) – frequency – current (A) – energy factor – maximum recorded consumption (W) – minimum recorded consumption (W) – maximum set value of current consumption (W)

## Setting the maximum load value "OVERLOAD"

This is a purely informative function, without any effect on the device. It is possible to set the maximum power input value of the device and see if it behaves according to the information provided by the manufacturer. For example, a kettle has a 2000 W power input. Set the 2000 W limit for the measured appliance and, if the kettle exceeds this limit, "OVERLOAD" will start flashing. The current power input value will be shown below the sign. In case of a higher value, you will know that the new kettle has worse parameters than those given by the manufacturer, or that, after a period of use, there is a defect in the electrical circuit that is causing an increase in power input and therefore, energy consumption. If the value is up to 5% below the maximum sinput, everything is working appropriately.

With the display in default mode, press "ENERGY" for three seconds, then press "SET" and "UP" to set the desired value, and save with "OK". When the load of the measured appliance exceeds the set value, the message "OVERLOAD" will flash on the display. In this situation, it is not possible to change the displayed electrical parameters, but it is possible to change the maximum load value. The default maximum load is 3680 W.

Note: "COST" and "ENERGY" will appear on the display in every mode.

## Safety instructions

The producer is not liable for property damages or injuries resulting from improper handling, or failure to follow the safety instructions. In such case, all warranty claims shall be invalid.

- Check that the ground wire is not damaged – it could result in grave danger in case of equipment failure.
- This device is not a toy and must be kept away from children.
- The device can be connected only to examined and protected contacts of max. 230 V ~ AC at 50/60 Hz (10/16 A).
- The connected load must not exceed 3680 W/16 A
- Recommended operating temperature: 0 to +40 °C. Higher temperatures, especially when measuring higher loads, can cause overheating and permanent damage to the device.
- Do not operate the device in adverse temperatures or in environments with flammable gases, vapours and dust.
- For safety reasons, never operate the device in wet or damp environments.
- Before cleaning and maintenance, the device must be disconnected from all power sources. The capacitors will remain charged, even if the device is disconnected from all power sources.
- When used in schools, educational facilities, hobby and self-help workshops, the operation of the device must be under the supervision of qualified personnel.
- In commercial institutions, ensure compliance with regulations for preventive protection of electrical installations.
- Do not insert needles, metal or any other objects into the device.

If you find that the device is no longer safe to use, remove it from service and secure it against accidental activation. The device is not safe to use if it is visibly damaged, does not work properly, has been stored for a long time under adverse conditions or has been subjected to heavy stress/pressure during transport.

## Maintenance

To clean the unit and the LCD screen use only a dry, soft cloth. Do not use any solvents. Never expose the device to water, extreme temperatures or any other adverse environment. Only qualified person may carry out maintenance and repair work.