



## Introduction

This device records electrical energy consumption and can calculate its cost. It must not be overloaded, otherwise it may be destroyed. It is to be used indoors only, in a dry environment. Outdoor use is prohibited! Always comply with the instructions and data provided on the ID plate of the connected appliance. Using the device in any other way than the way described, may lead to its destruction and can be associated with risks like shorts, fires, electric shock, etc. The device may not be customized or modified.

## Technical Parameters

- voltage: AC 230 VAC/50 Hz
- max. load: 3680 W/16 A
- measurement range: 0,1 W-3680 W
- measurement error:  $\pm 2 \%$

## Operating Conditions

- voltage measurement range: 200-276 V/50 Hz
- operating temperature: 0-50° C
- electrical energy measurement range 0,0-9999,9 kWh
- electric current measurement range 0,005 mA – 16 A

## Cost Settings

Hold the "MODE" button for three seconds, and the cost value being set starts blinking. The (€) symbol represents a general currency. Pressing the "MODE" button toggles the selected digits and pressing the "UP" button changes their values. Unless any button is pressed within 10 s, the device reverts to standard mode with the values currently set. After setting adjustments are complete, hold the "MODE" button for three seconds, switching back to standard mode. The device is now prepared to calculate costs in single rate mode.

## Reset

If abnormal values of the parameters measured are being displayed, or if buttons stop responding to commands, restart the device by holding the reset button. All data will be reset and the device is ready for measurement again.

## Indication during Overload

If the total power drawn exceeds the maximum allowable limit of 3680 W, an "OVERLOAD" message will start blinking on the display, notifying the user about the situation.

## Displaying Values

Starting at the home screen, by pressing the "MODE" button, you can display information in the following order:

*current energy consumption (W)* -> *current voltage value (V)* -> *total consumption (kWh)* -> *total cost (€)* -> *price of one kWh (€)*.

- Total electrical energy consumption measurement range: 0,000 kWh – 9999 kWh
- Total cost range: 0,00 - 9999 €
- kWh price setting range: 00,00 €/kWh – 99,99 €/kWh
- Current consumption range 0,0 W – 9999 W

## Safety Instructions

The producer is not responsible for any damage to property or health caused by improper handling or failure to follow the safety instructions! Any and all warranty claims will be considered invalid in any such cases.

- Please check that the earth pin is undamaged – its disconnection could result in lethal risks if the device malfunctions.
- This device is not a toy and should not be handled by children.
- The device may only be connected to tested and protected 220-250V alternating current contacts, at a frequency of 50 Hz (16 A).
- The load connected may not exceed 3680 W/16 A
- The recommended operating temperature range is between 0 and +50 °C (32 and 122 °F). Higher temperatures, in particular when measuring higher loads, may cause overheating and permanent damage to the device.
- Do not use the device in environments with prevailing high temperatures or in environments with flammable gases, vapors or dust.
- For safety reasons, never operate the device in wet or damp environments.
- For cleaning and maintenance, the device must be disconnected from all voltage sources. The device contains capacitors, which stay loaded even when the device is disconnected from all voltage sources.
- When the measurement device is used in training facilities, hobby clubs and DIY workshops, its operation must be under the oversight of qualified personnel.
- In commercial institutions, ensure compliance with preventative measure regulations regarding electrical equipment.
- Do not insert any needles, metal or any other objects into the device.

If you determine that the device is no longer safe for use, remove it from use and secure it against inadvertent activation. It is not safe to use the device, if it is visibly damaged, if it does not work correctly, or if it had been stored in improper conditions for a longer period of time, or if it was exposed to great stress / pressure during transport.

## Maintenance

- Perform regular checks of the device.
- To clean the device and the LCD display, only use a dry and soft piece of cloth. Do not use any solvents.
- Never expose the device to water, extreme temperatures, or any other unsuitable environments.
- Maintenance and repairs may be carried out by qualified personnel only.