

STATISTICS FOR WATTROUTER ECO

PRO MODELS:
WATTROUTER ECO (WRE 01/06/14 AND WT 02/10)

Document version: 1.1

Last revision: 14. 1. 2016

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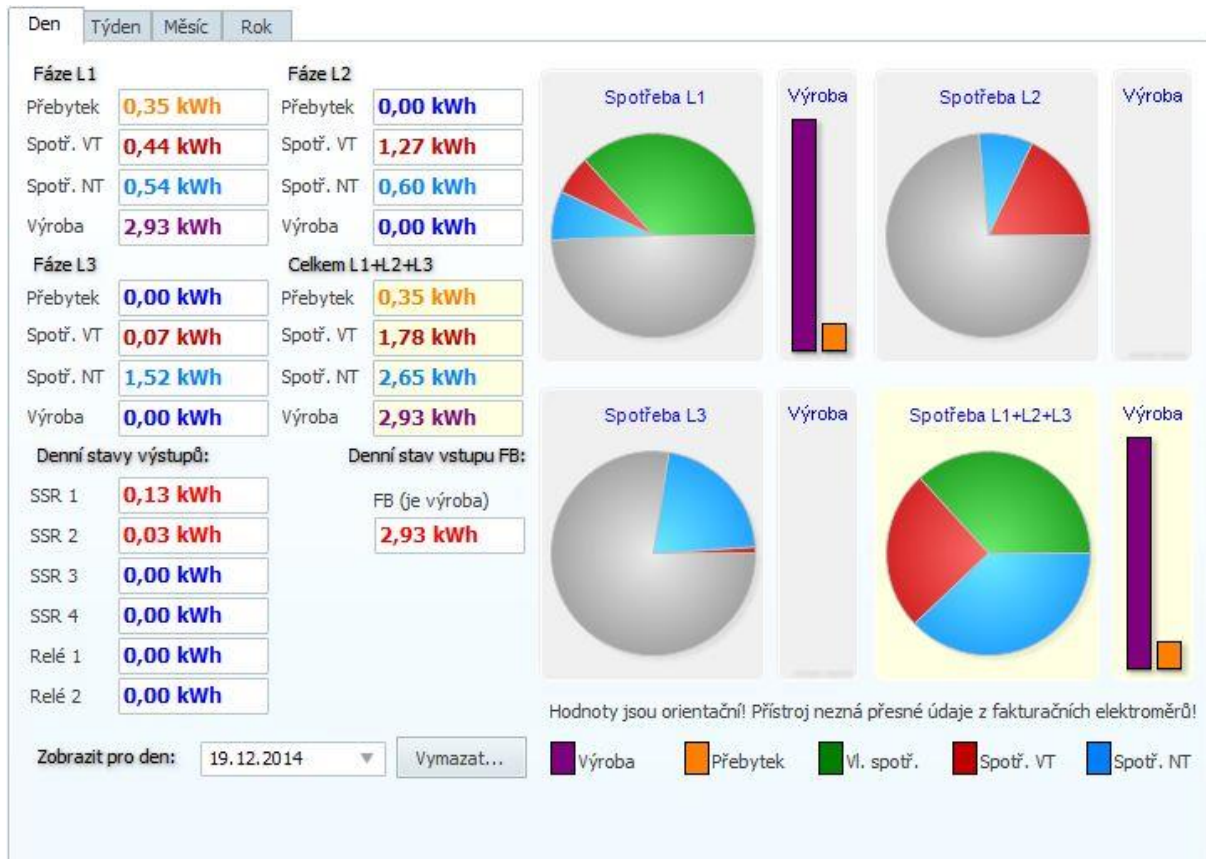
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GENERAL INFORMATION

The statistics are optional software add-on for WATTrouter ECO and they can be purchased at any time and activated in the device. Detailed description about activation process can be found in the WATTrouter ECO user manual.

The statistics will be shown in the WATTconfig ECO software on the Statistics tab.



STATISTICS TAB

Note: This function is only accessible with activated Statistics SW feature. This description has been taken from WATTrouter ECO user manual.

This tab displays daily, weekly, monthly and yearly statistics on production, consumption and surplus (excess) energy. Statistics can be exported to *.csv files.

Caution: Through current sensing module you can obtain only the consumption and surplus (excess) energy. To display data on production and self-consumption, it is necessary to connect a pulse output from an external meter to FB input, which measures the power of the inverter. Alternatively, connect inverter directly to the FB input when the inverter is equipped with a compatible pulse output. It is also necessary to configure the FB input in the "Data Source" field on the Settings tab, in order to let the regulator process the counted value properly.

Caution: Values are approximate! The device does not know the exact values from utility/billing meters!

Caution: Daily statistics are reset every time just after midnight, i.e. at 0:00 A.M. At the same time, daily values from the just finished day are moved into history. When you change the date in the regulator you may cause irreversible deletion of stored history!

Daily statistics:

- Phase Lx–displays information about the surplus (excess) energy, normal and low price energy tariff as well as (optionally) production, when counted with a FB input, in the current or selected day.
- Total L1+L2+L3 – displays summary data from all three phases. The calculation of these data depends on the selected control mode -the "Control settings" field on the "Input settings" tab:
 - a. Each phase independently – summary data are simply the sum of the fields from all 3 phases
 - b. Sum of all phases – summary data are updated continuously from immediate results. **In this control mode summary data are not the simple sum of the displayed values in each phase** (in one phase the surplus energy may cover consumption in different phase, etc.).
- Daily output status- displays the assumed amount of energy supplied to each load in the current or selected day. **Since the statistics are reset every time just after midnight, these values do not correspond with the values in the fields "Assumed supplied energy"**(reset of those fields is generally done at different time).
- Daily FB input status- displays the measured energy at corresponding FB input in the current or selected day. If the FB input is configured to measure production then a short label "counts prod." appears above the measured value.
- Show for day –select the date for which to view daily statistics. You can display them for current date and last 7 days.
- Erase–use this button to delete all statistics. Confirmation dialog will be shown first.
- Charts – they show a graphical interpretation of the daily statistics on production and consumption. Charts in each phase indicate the part of corresponding summary data (pie slice or part of the bar). The self-consumption value is calculated from the relationship: self-consumption = production – surplus energy. Self-consumption values are not available unless the displayed production value is bigger than measured surplus energy value.

Note: For very small energy values (typically immediately after resetting statistics after midnight) internal rounding to 0.01kWh is significant for displaying the charts .In these cases, pie charts may not be displayed absolutely correctly.

Weekly statistics:

- Chart -shows the 5 main summary data (production, surplus energy, self-consumption, consumption in normal and low tariff) in bars for the last 7 days. Double click on the bar to view the day in the daily statistics.
- Export -exports the weekly statistics to a *.csv file that can be opened e.g. in MS-Excel.

Monthly statistics:

- Production chart - displays summary data on production (production +surplus energy) in the last 31 days.
- Consumption chart - displays summary data on consumption (self-consumption, consumption in normal and low tariff) in the last 31 days.
- Export- exports monthly statistics to a *.csv file that can be opened e.g. in MS-Excel.

Note: The monthly statistics can't show detail of a day as in the case of weekly statistics, details are stored only for the last 7 days.

Yearly statistics:

- Production chart – displays summary data on production (production +surplus energy) in the last 12 months.
- Consumption chart – displays summary data on consumption (self-consumption, consumption in normal and low tariff) in the last 12 months.
- Export- exports yearly statistics to a *.csv file that can be opened e.g. in MS-Excel. Exports data for last 24 months.

Note: Actual day will take effect in the annual history (current month) after moving into history (after midnight).