WinWatt v5.4

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ENERGY MANAGEMENT



WinWatt allows you on-line, by network, modem or direct connection to analyse or to adapt all measurements and actions of **PowerGraph**, in other words to optimise your energy flow in 'real time'.

With **WinWatt** software you can manage several sites at the same time. You can give a description and engineering units to each measuring point, or calculate a number of channels, based on the hardware measuring points.

WinWatt analyses and creates reports of your consumption for you, based on measured data of one month.

WinWatt has many build-in functions to generate day, week, or month reports

like Graph 6 channels Graph normal, silent and peak hours Table Graph 0-24 hour Monotone (sorted from high to low) 6 Highest +/- 1 hour Overview Export (CSV-format)

These functions give you the possibility to detect connections very fast between several parameters and to analyse your comsumption to the bottom.

In the analysis-menu **WinWatt** provides you with annual reports as well, like

actif and reactif power cos phi energy gas and water consumption invoice amounts unit prices utilisation ratios...

and this always for normal, silent and peak hours.

The report can contain 12 months (begin and end to be selected by the user), or a complete overview of many years. The results are represented in table or graph.

This menu allows you to calculate invoices and to run tariff simulations.DataControl allows you to check wether the measurement is between the limits.







There are 3 invoice options:

The first 2 options concern electricity and gas, where you can enter your own formulas (free market!), eventually starting from a normal standard tariff.

The 3th option is partial invoicing of electricity, in which the power part of each sub invoice is determined by the power at the moment of the highest total power of that month.

WinWatt can generate any **report** in Excel, for benchmarking, production results, etc.

To be sure that the data is reliable, different kind of control algorithmes can be chosen for each measurement point. If the data was wrong for one reason, it can be corrected and locked. In the same report you will see the status of the communication and the last time data was collected.

The **on-line** screen visualises continuosly the new consumption on the measuring inputs, with a refresh

rate of 15 seconds. It shows the state of all relais outputs and analogues outputs as well.

Because this screen is saved on the harddisc (f.e. of a central server) this data can be consulted at a later moment by a simple double-click in the graph with normal and silent hours on the quarter of an hour that you wish to see.

This information can also be used to decide to start a (big) consummer now, or to wait till the next quarter of an hour.

The small extra program **wwMacro** runs parallel with **WinWatt** and organizes the automatic download of certain data from all systems into the PC.

Sometimes it will end **WinWatt** and restart it after finishing the downloads.

All actions (with or without succes) are logged in a file for error-checking.

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