PowerWatt

PowerWatt Pro and PowerWatt LT SQL Software

Description

PowerWatt Pro and **PowerWatt LT SQL** are software packages that have been specially designed to interact with the multi-functional **CIRWATT** three-phase meters.

PowerWatt Pro and PowerWatt LT SQL have been designed for remote metering applications and the management of energy meters, enabling a permanent control of their consumption. They are easy to use and the interface is oriented to any type of user.

Application

This software is a tool that can be used to interact with meters and its purpose is to guarantee the total control of the information:

○ Real-time monitoring of the value of the variables metered by the meter.

○ Reading the configuration of different parameters.

○ Downloading the files to the units and programming these downloads so that they are carried out automatically.

○ Exporting files in standard format.

○ Display of download parameters in tables and graphs.

References

Description	Type	Code
Visualization / simulation of receipts (USB port license)	**PowerWatt Pro**	**Q30422**
Information management software used for three-phase meters	**PowerWatt LT SQL**	**Q30423**

Minimum requirements

Operating System
Windows 2000 SP4, Windows 2003 Server SP1, Windows XP SP2, Windows Vista (32 bits)
RAM Memory
256 MB
Processor
Pentium III, 1 GHz
Memory
30 MB free disk space

Safety

In order to protect the information, the *PowerWatt* reading **software** has different program access levels. There two types of user with access keys:

○ Users that can use any type of program function

○ Users that can only read the meters

Communications

Communications with the meters can be established as follows:

○ **Modem.** Different modems can be registered, including their initialisation strings, independent for each modem.

○ **Local communications.** With serial ports, USB converters or with optical ports, with the **CIRWATT** (**LOC**) Optical Reader

○ **TCP/IP.** Through the **CIRCUTOR** (**TCP2RS**) converter, with a connection to the meter through an IP connection and the TCP / IP / TCP / UDP protocol

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Database

A database stores the information from each meter, including:

- ID
- Link address / metering point / access key / *password*
- Telephone No.
- Type of download (manual / automatic)
- Types of files downloaded manually (specified by contract)
- No. of retries in the communications with modems
- Read constant
- Transformation Ratios
- Resolution
- Serial No.

A different database will link each meter to the following fields:

- Client
- Company
- Group
- Zone
- Rate

Energy billing

PowerWatt * can be used to bill the energy with a flexible approach, using the energy consumption profile recorded in each **CIRWATT** meter as the source data.

It is configured with the definition of an annual calendar, allocating a profile of billing periods for each type of day. The calendar programming approach is flexible and can be configured by the user. The program includes various pre-configured calendars. The results can be displayed on lists or graphs with the curve of periods or receipts.
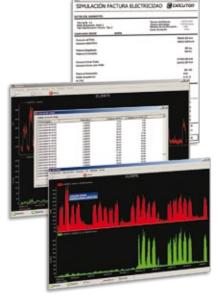
* Only in **PowerWatt Pro**

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Utilities

The program has a series of utilities, such as:

- Import or export of data in different formats
- Maintenance of the database, selecting the maximum recording period
- Performing backup copies

Receipts / Lists / Graphs

The invoice can be simulated with the tariff establishing system designed by the **PowerWatt Pro** program, or with the rates obtained by the meter (billing closing files), displaying the results with the default calculations on the invoice.

PowerWatt can be used for the graphical display of:

- Hourly load curve
- ¼ Hourly load curve
- Mean power curve during 15 minutes (values calculated with the ¼ hourly load curve)
- Billing closing graphs (by month, with rates established and not established)
- Events

In any case, the data display period can be selected.