

Software

# PowerStudio SCADA

Energy supervision, preventive maintenance of electric lines and installations and allocation of departmental or production process costs.

**Power**studio  
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SCADA



Drivers for **CIRCUTOR** devices

CVMk2, CVM MINI, CVM NRG96, CVM 1D, CVM 96, CVM 144, CVM BC, CVM BD, CVMk, CVMk-HAR, CVM NET, CVM NET4, CVM R8, CVM SP, DH96, EDMk, MKD, MK, MP3, MP4, PowerNet, TR8, TR16, CIRWATT, LM24-M, LM50, LM4-I/O, LM4A-2IO-M, RGU-10, CBS-4, CBS-8, CDR-8, RRM-C, QNA, computer 14D, computer PLUS, computer SMART, IP CAMERA, EDS, R440-TCP

## Description

Due to the diversity and number of devices making up an installation, which may also be interconnected, it is important to be able to see and update different parameters of different devices on a single screen at the same time. **PowerStudio SCADA** is designed to allow any user to create their own customised screens and reports to according to their needs.

**PowerStudio SCADA** is software that processes data obtained from devices to create reports, with the purpose of adopting the adequate corrective or preventive measures during the installation.

All in all, this *software* enables the integration of **CIRCUTOR's** equipment for its management, such as the **CVM** power analyzers, multifunction energy meters **CIRWATT**, protection devices, signal processing equipment, automatic load control by relays.

**PowerStudio SCADA** has an XML server which adapts perfectly to modern internet technology.

**PowerStudio SCADA** also offers the possibility of adding an OPC server or an **SQL Data Export** by way of the corresponding modules

## Examples



## ESPECIFICACIONES

Parámetros / Informes / Gráficos / Tabla / Informe

- Servidor cliente: Celeron® CPU 2.2 GHz
- 512 MB de RAM
- Disco duro mínimo: 100 GB/100 G y 100/100 MB
- Sistema Operativo y Software: Microsoft Windows XP Professional, Windows 2002 Service Pack 2, Power Studio Versión 2.5, Revisión marzo 2007
- Comunicaciones:
  - 4 Conmutadores de Red Ethernet / RS-485 protocolo Modbus/RTU (LAP)
  - 1 Placa de comunicación RS-232 para comunicación Local
- Equipos Medidos:
  - Analizador de Calidad de Tensión Clase A: CVM-413 Ethernet (1)
  - Regulador de Energía Reactiva: Controler 143 (1)
  - Medidor de Temperatura: S406 TMP (1)
  - Analizadores de Red: CVM-90, CVM-M24, CVM-96 y CVM-144 (17)

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## Features

**Remote parameterisation of equipment:**

It enables the parameters of all units connected to be set on-line, thus facilitating the configuration of all units from the PC or control unit.

The following can be programmed with the **PowerStudio SCADA**:

- Voltage and current transformation ratios.
- Digital inputs and outputs and analogue outputs.
- Trigger ratios of protection devices and their reclosing system configurations

**Display of parameters in real time:**

It displays the parameters of all units in real time, knowing the installation's behaviour and status of the electrical distribution lines of the installation at all times. Said communications are possible, since **PowerStudio SCADA** is in constant communication with the units (pulling).

Data can be displayed in digital (number) or analogue (bars) format, indicating the colours (red, orange, green) of the variables that are outside the programmed limits (correct, pre-alarm, etc.)

**Record log:**

The record log is created automatically. Users need not configure options other than in the storage period to start the log, because after adding the device(s) to the *software*, **PowerStudio SCADA** automatically starts recording all the electric parameters from the different **CIRCUTOR** devices.

**Display of logs on tables or graphics**

**PowerStudio SCADA** records all of the parameters mentioned above to generate graphics and tables with the different electrical parameters, grouped in accordance with the customer's needs (day, week or month).

This information is used to display the evolution of any electrical or process parameter in time, also displaying the increase of a variable totalled over time (energy).

The user can print any graphic or table generated by the *software*.

**Alarm module:**

The previous programming tasks are used by the user to display any incident in the installation in real time.

Alarms can be associated easily to any parameter available in the **PowerStudio SCADA**, such as electrical or process parameters. The alarm module guarantees the optimal efficiency of the installation's

preventive maintenance tasks. Loads are controlled in different time bands using relay devices.

**Multi-position Software (Integrated Web Server)**

The internal software web server of **PowerStudio SCADA** can be used by any user connected to the corporate network (LAN) or any Internet connection (if the *router* used for the connection by the company, factory, etc. is connected). The relationship between the public IP and the private IP can display the data log or data in real time, which will be updated permanently.

Screens are dynamic, so that the web client can display all data in real time, as in the case of the master server.

The number of web users that can connect to the server is unlimited; and **PowerStudio SCADA** allows the generation of users limiting the display for XML integration (relocated integration).

**Integrated XML server**

**PowerStudio SCADA** features tools specialising in the exchange of dynamic data, for the integration of the energy supervision tasks within a global control system, which contains communications servers for the integration of XML (relocated integration).

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**Features****Construction of customised screens**

**PowerStudio SCADA** can be used to create customised screens. Therefore, we can fix the parameter or status display labels, which monitor a specific point of the installation or the status of a line.

The number of screens which can be implemented is unlimited, so we can customise display screens in sectors, displaying a specific point of the installation in each case.

**Force variables (remote control)**

Allows remote control of charges and forcing variables **PowerStudio SCADA** via XML tranches. Enables remote control of equipment and acts on charges.

**Generator of reports and receipt simulator**

PowerStudio SCADA has a very powerful module that can be used to generate reports and simulate receipts. It can be used to create billing calendars, programming the following: types of hour, types of day, billing calendars and calculation of costs.

This module is used to design a summary report with any variable obtained and recorded by **PowerStudio SCADA**. It implements energy consumption in a determined

period of time, summary of events or incidents in the grid.

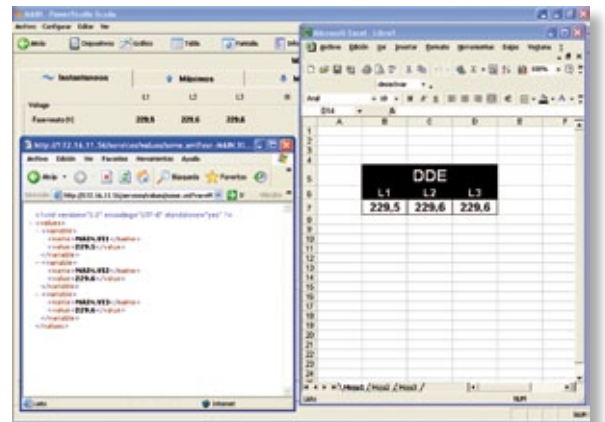
The reports can be customised to user needs in each case and mathematical functions can even be applied to the variables obtained, for the purpose of obtaining production ratios or to check the consumption of electrical bills issued.

**All in all, PowerStudio SCADA it is a highly versatile and easy-to-use software. In this case, Scada applications can be created without the need to have programming knowledge, since the user interface is simple and intuitive.**

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Additional information

### DYNAMIC DATA EXCHANGE

PowerStudio SCADA, is not only an excellent energy manager, but it also has a series of data exchange functions implemented, facilitating the quick and comfortable integration of the system with other market applications.

### XML Integration

At times, integrators have various external applications that need to read the data from the same peripheral device remotely. This is a serious problem, since the units with RS-485 communications can only be queried by a single master. When there is more than one, there are collisions in the communications and no application receives the information correctly.

The XML communication protocol solves this problem; the only requirement is that the IP address of the slave application or data server can be accessed. With this format we can request any electrical or physical parameter of the PowerStudio SCADA in real time, integrating many different electrical or physical parameters in one or various PowerStudio SCADA systems installed in the same network, even on accessible external grids (decentralised energy control systems). In other words, enabling communication between software, via LAN or the Internet.

References

Type	Code
PowerStudio SCADA HASP license, parallel	M90221
PowerStudio SCADA HASP license, USB	M90231