Remote energy management
EDS. Energy manager

CIRCUTOR

Energy efficiency technology

Remote energy management

*At **CIRCUTOR,** we have been manufacturing and distributing electrical energy efficiency management systems and equipment for more than 35 years. All the knowledge acquired during this time is reflected in our products, which are reliable, robust, easy to use and most importantly: innovative.*

The rational and consistent use of energy is vital in order to make current and future energy needs compatible. Therefore, there is a great need for strong Energy Efficiency policies.

Energy must be measured to guarantee its correct management. Likewise, communications equipment must be used to centralise all data at one point to make sure that it is handled correctly.

EDS. Energy manager

Efficiency Data Server

Fully autonomous systems, no need for the use of a computer

Efficiency Data Server is an energy manager equipped with PowerStudio Embedded and a built-in web server, which enables the user to query any electric variable by connecting the measurement equipment through its RS-485 bus, without having to install software
in a local area network (LAN or VPN) computer.
Thanks to the RS-485 expansion bus, the user can view any variable of the units connected to the bus and can even display information in real time, in table or graphic format (data logger).
There are 8 voltage-free digital inputs and 6 programmable relay outputs.
The most salient features include:

• Parameterisation and management of automatic events
• Alarm recording system and system event management
• E-mail alarms
• RS-485 port for up to 5 CIRCUTOR units
• Ethernet connection
• Centralisation of alarms or consumption by impulses

Domestic application

Compare your consumption with that of the energy marketer contracted
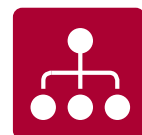
SME / Industrial application

Connect the system when needed and control the consumption of your energy installation, with no need to install a local computer

Multi-point Application

Efficient, easy and simple centralisation of the consumption of your remote sites for control purposes

Compare your consumption with that of the energy marketer

Domestic application

EDS can be used to control the partial consumption of each load in a domestic installation, such as lighting, appliances and even the total consumption, with the purpose of comparing the total consumption with that stated on your electricity bill.

- Control of consumption in your home
- Compare your consumption with that of the energy marketer
- Rationalise consumption in your home

BLINDS

SUBIR
BAJAR

AIR-CONDITIONING

ON
OFF

AIR-CONDITIONING
ON
OFF

IP Address

IP Address

Internet

ICP: Power Control Switch

IGA: Automatic Main Switch

PIA: Small Automatic Switch

IGA

EARTH LEAKAGE

40 A
30 mA

PIA

32A 25 A 10 A 16A

ICP

CVM 1D

CVM-1D

Digital inputs / impulses

Clock Internal

RS-485

2011-03-28   11:34

EDS

Water meter

Gas meter

Presence sensor

Blinds

Outputs / Loads

Energy management software included in the unit

Powerstudio
.circutor.com

CVM1D   Lighting

CVM1D   Cooking

CVM 1D   Television, Washing machine, ...
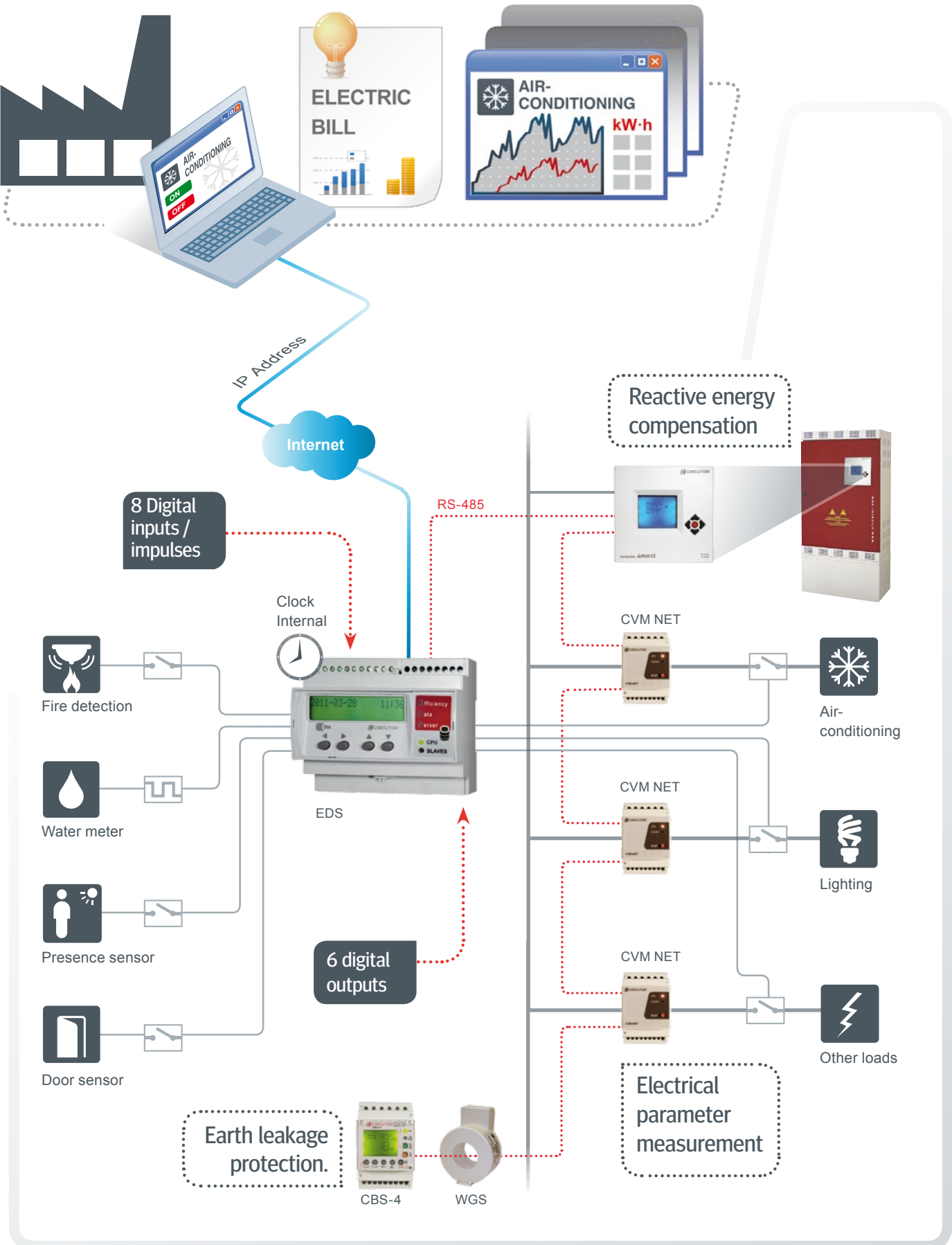
CVM 1D   Air-conditioning

5

Consumption or incident alarms in your electrical network

SME / Industrial application

EDS can be used to control the partial consumption of the different single or three-phase loads in production and non-production periods, with the purpose of optimising energy costs and allocating production costs.

- Control the consumption of your installation 24 hours a day, 365 days a year and locate residual consumption in non-production periods
- Compare the power level contracted in your installation
- Supervise the level of harmonics and reactive load of your installation

- Consumption or incident alarms in your electrical network
- No need for a computer
- Connect when needed, the system is activated automatically
- Provides information about your bill before receiving it

ELECTRIC BILL

AIR-CONDITIONING

AIR-CONDITIONING

ON OFF

kW·h

IP Address

Internet

8 Digital inputs / impulses

RS-485

Reactive energy compensation

Clock Internal

CVM NET

Fire detection

Water meter

Presence sensor

Door sensor

EDS

6 digital outputs

CVM NET

CVM NET

Air-conditioning

Lighting

Other loads

Earth leakage protection.

CBS-4   WGS
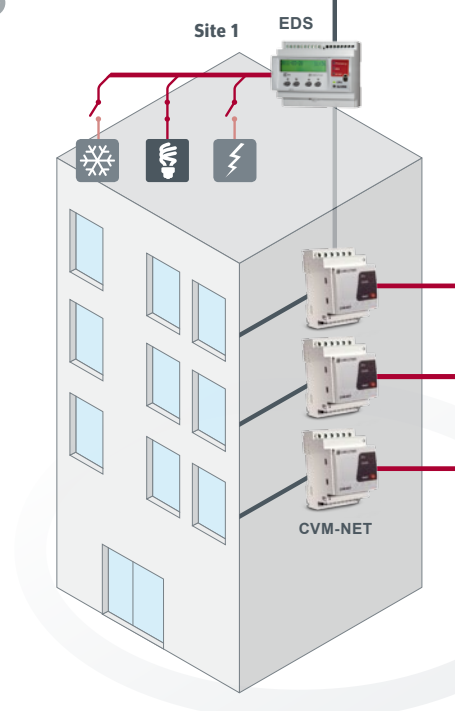
Electrical parameter measurement

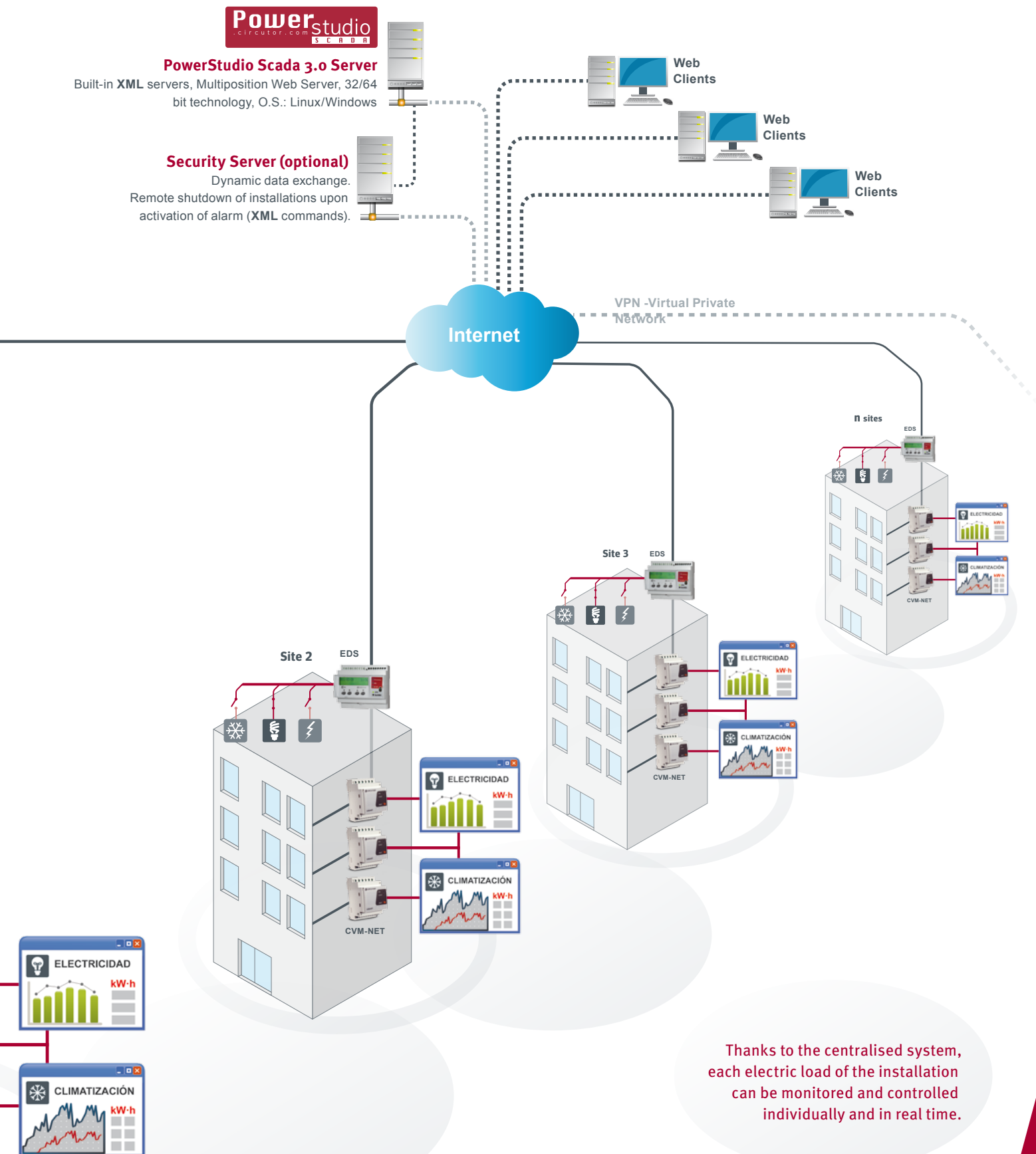# Efficient, easy and simple control of the consumption of your sites

Multi-point Application

During the distribution of loads (or in remote installations), **EDS** can be used to control the individual consumption of your installation, centralising it in a single **PowerStudio** central application, to control total consumption and/or compare it with other similar installations.

- Efficient, easy and simple control of the consumption of your remote sites
- Energy reports per consumption zone or site
- Remote excess consumption or incident alarms in the electrical network of the different consumption zones
- Possibility of comparing the consumption of different sites

Site 1   **EDS**

CVM-NET

Powerstudio SCADA
.circutor.com

PowerStudio Scada 3.0 Server
Built-in **XML** servers, Multiposition Web Server, 32/64 bit technology, O.S.: Linux/Windows

Security Server (optional)
Dynamic data exchange.
Remote shutdown of installations upon activation of alarm (**XML** commands).

Web Clients

Web Clients

Web Clients

VPN -Virtual Private Network

Internet

n sites
EDS

ELECTRICIDAD kW·h

CLIMATIZACIÓN kW·h

CVM-NET

Site 3 EDS

ELECTRICIDAD kW·h

CLIMATIZACIÓN kW·h

CVM-NET

Site 2 EDS

ELECTRICIDAD kW·h

CLIMATIZACIÓN kW·h

CVM-NET

ELECTRICIDAD kW·h

CLIMATIZACIÓN kW·h

Thanks to the centralised system, each electric load of the installation can be monitored and controlled individually and in real time.

Remote energy management
EDS. Energy manager
CIREOS. Efficiency indicator

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