



Solutions for Electrical energy efficiency

Technology for energy efficiency





CIRCUTOR's Energy Management System



Energy audits

- Energy and technical diagnosis of installations

Portable
analyzers

Contracting management

- Supplies management
- Contract management
- Global energy ratio

Multifunction
Meters

Measuring and Verification EMS

Measuring of variables

- Control of energy supplies
- Integration of critical variables
- Ascertaining base line
- Energy Balance
- Consumption ratios
- Verification of savings

Remote management

- Remote control of distributed centres
- Energy control and management

Management and control software

Variables
measuring

Power Analyzers

Energy meters

Concentrators

Transformers

Accessories

Remote
management

Efficiency Data
Server

Software de
gestión y control

Efficiency
indicator

Demand management

- Acting on loads
- Power Factor correction and Harmonic filtering

Acting on loads

Power Control

Power Factor correction

Capacitor Banks with or without
harmonic filters

Improved productivity

Production costs

- Proper allocation of costs
- Energy and production ratios

Maintenance

- Continuity of the service
- Technical management and disturbances control

Production costs

Partial consumption
energy meters

Control of leakage
currents

Earth-leakage
relays

Technical
management

Active filters

Continuity of the service

Earth leakage relays with
self-reclosing systems

Renewable Energies

Self-consumption

Charging electric vehicles
with self-consumption

Electrical energy efficiency

¿What is the Electrical energy efficiency?

To reduce electrical power and energy required from the electric power systems without affecting the usual activities carried out in a building, or distribution process.

Why is it necessary?

Because to reduce apparent power (kV·A) and energy (kW·h, kvar·h) required from electrical system allows:

- To assist the sustainability of the economic system and the environment.
- To improve the technical management of the installations by optimizing their performance (decreasing energy demand) and avoiding downtime and breakdowns (leakage control and filtering).
- To reduce, therefore, the financial cost of running installations and processes.



CIRCUTOR's Energy Management System

How to do it?

CIRCUTOR has the necessary equipment within its 6 product families:



Measurement and Control



Protection and Control



Metering



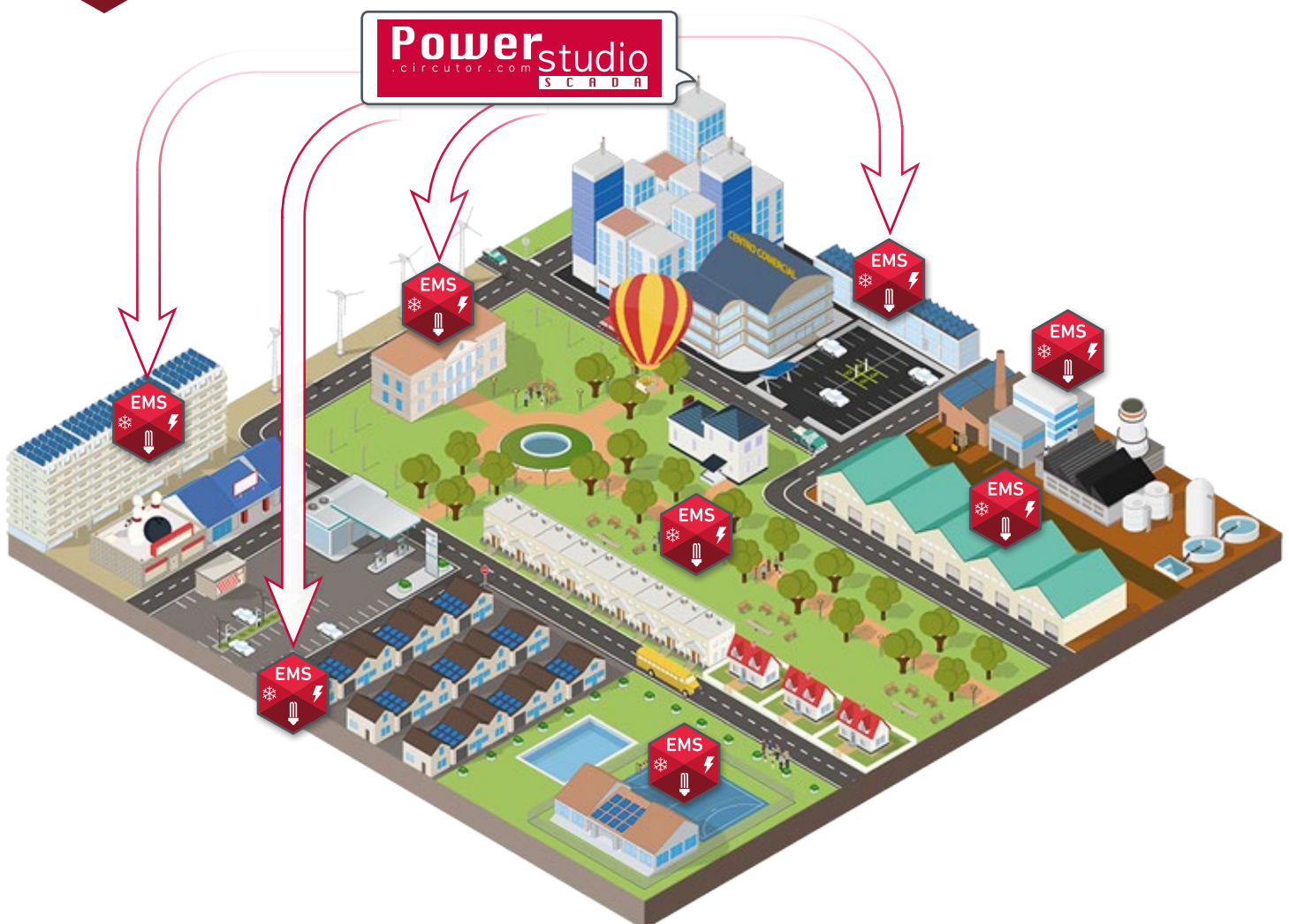
Power Factor correction and Harmonic filtering



Smart Charge of Electrical Vehicles



Renewable Energies



Energy audits - Portable analyzers

CIR-e+



AR5-L



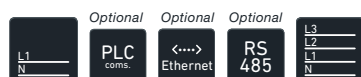
AR6



Contracting management - Energy meters

CIRWATT B

Single-phase Three-phase

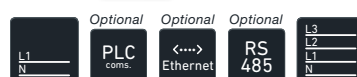


SGE PLC-800



CIRWATT B

Single-phase Three-phase



Compact DC 3G



PRIME
ALLIANCE

Partial consumption energy meters - Production costs - Energy meters

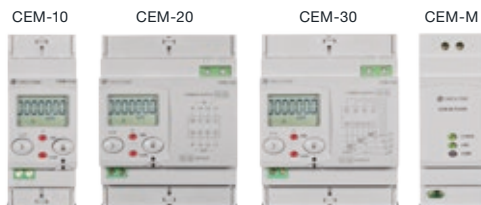
EMC-30



EDMk



CEM



CEM-M

Concentrators

LM 25-M



LM 50-TCP+



LM 4A-210-M



LM 4I-40-M



Consumption analyzer - Measuring of variables

Wi-beee

Single-phase

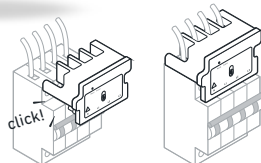
Three-phase



Download the APP

Download the management app for Wibebee devices. You can check your consumption from your local coffee shop using a smartphone or from your tablet while lying on the sofa at home.

Control your consumption everywhere.



Power analyzers

CVM-C5



CVM-C10



CVM-B100



CVM-B150



CVM-1D



CVM-MINI



CVM-NET

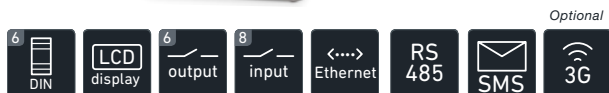


CVM-NET-4 +



Efficiency Data Server - Remote management

EDS / EDS-3G



Demand management - Acting on loads

MDC-20



Demand management - Power factor correction and harmonic filtering

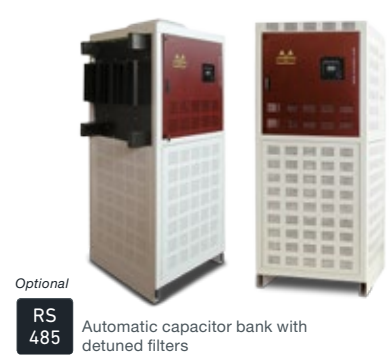
OPTIM P&P Plug & Play



EMS / EMK



OPTIM FR / FRE



Transformers and accessories

MC1 - MC3 (.../250 mA)



MC1 - Ø 20 mm, Ø 30 mm, Ø 55 mm, Ø 80 mm.

MC3 - Ø 7,1 mm, Ø 14,6 mm, Ø 26 mm.

Efficient transformers
From 63 A to 2000 A

TC / TCH / TP (.../5 A, .../1 A Opt.)



TC Narrow section
TCH High accuracy
TP Split core

From 50 A to 4000 A

TCP1RS+ / TCP2RS+ / RS2RS

Converter from RS-485 to Ethernet

Converter from RS-232 or RS-485 to Ethernet: TCP/IP.

Converter / amplifier RS-232 - RS-485



Renewable Energies

CDP

Dynamic Power Controllers



CirPower

Multi-management hybrid solar inverter



RVE

Smart management systems for electric vehicles recharge



PVing Parks

Solar canopies for self-consumption



Improvement of productivity - Technical management and disturbances control

QNA 500

Analizador de calidad de suministro con sistema modular



AFQ

Active multi-function filter



LCL

Harmonic filters for converters



Improvement of productivity - Control of leakage currents and continuity of the service

WGC



Ø 25 mm, Ø 35 mm, Ø 55 mm,
Ø 80 mm, Ø 110 mm, Ø 140 mm.
220 x 105 mm, 350 x 150 mm,
500 x 200 mm.

RGU-2



RGU-10



CBS 4

Earth leakage station



WRU-10



Ø 28 mm



RGU-10 RAL

Protection and earth leakage reclosing



REC3

Self-reclosing RCCB



REC 3 - 2 poles



REC 3 - 4 poles



RECmax LPd

Earth leakage circuit breaker with self-reclosing system and display (LCD)



RGU-10 MT

Protection, earth leakage and circuit breaker reclosing



RGU-10B Type B

Electronic earth leakage current protection and monitoring relay



IDB-4 Type B

Type B RCCB, instantaneous 30 mA and 300 mA



WGB-35-TB Type B

Transformer with built-in Type B earth leakage relay



Energy Management Software

Power studio
circuitor.com SCADA

Energy supervision software for buildings and industrial installations, with the possibility of viewing reports, layouts and single-line diagrams. The main functions are the following:

- Creation of historical data
- Ascertain the base lines
- Management of energy costs
- Energy balances
- Energy consumption ratios
- Consumption reports
- Table of alarms
- Power Quality Management
- Open system compatible with another equipment and SCADA in the market
- Analysis and management of technical variables
- Energy ratio / unit of production ratio
- Cost / production ratio reports
- **Essential tool for UNE 16001 / ISO 50001 certification.**

See detailed brochure.



Solutions for Electrical energy efficiency

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