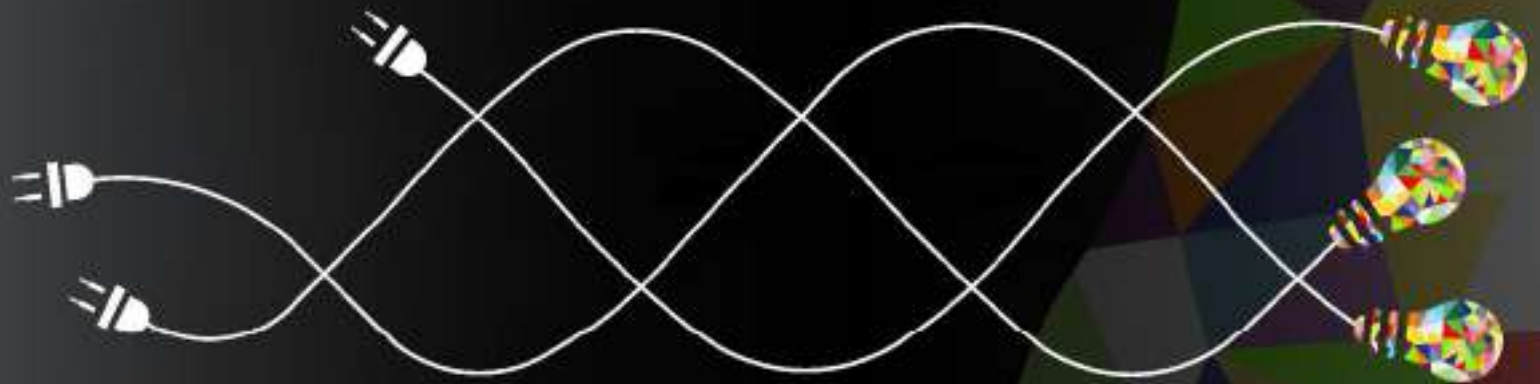
GEM

Global Energy Meter



ENERGY EFFICIENCY

Remote Monitoring

COSTS | CONSUPTIONS

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SUSTAINABLE AND EFFICIENT SOLUTION

MONITORING OF ELECTRICITY CONSUMPTION

Over the time, energy consumption has gained importance not only because of environmental concerns, but also because of the associated costs. Currently, the challenge that is imposed in this area is the more rational and intelligent use of energy-consuming equipment.

For this, the use of more efficient technologies allows us, in a more sustained and efficient way, to reduce energy consumption and to detect anomalies through a real-time monitoring, and thus to establish good conducts in the use of energy.

In this sense, there was a need to implement measures and actions that translated into significant energy and economic savings, which led us to develop the GEM - Global Energy Meter, which allow us to remotely monitor a power grid, making all its consumption available in real time through a web interface.

GEM

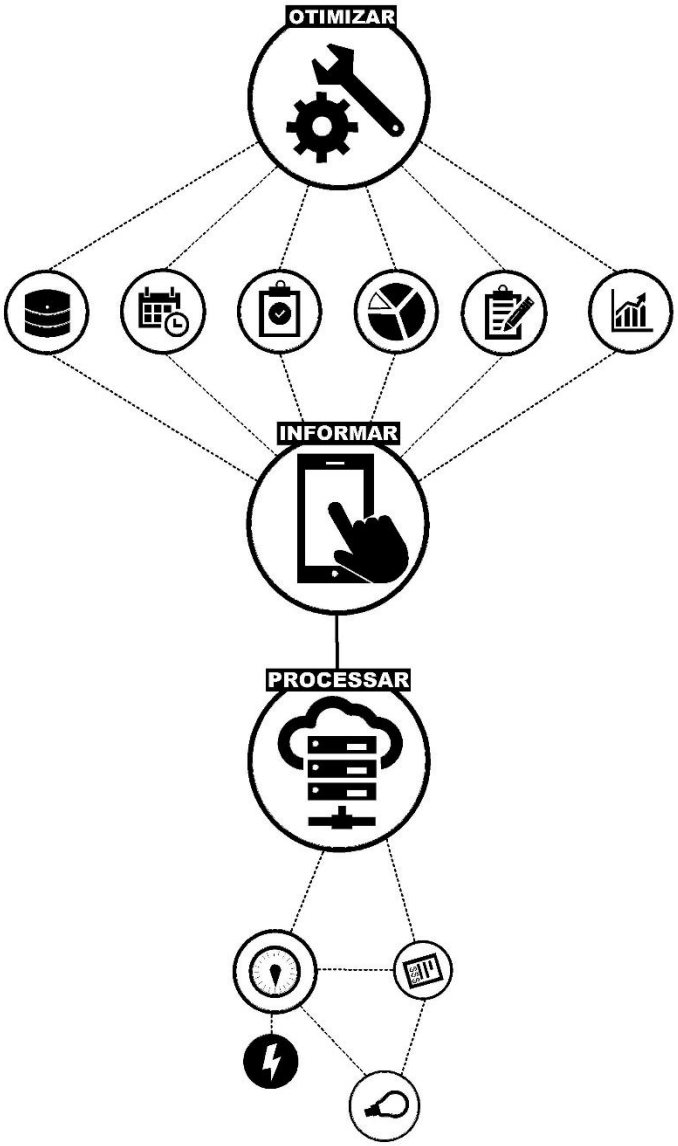
OPERATING MODE

The main function of **GEM** is to monitor the energy consumption of three-phase circuits.

The data collected by the equipment will then be transported to a web platform through the direct connection to the existing network (RJ45 Cable), which allows us to consult them, build reports and analysis of global consumption of a residential, commercial or industrial, commercial or industrial installation and consequently to verify and optimize energy efficiency measures.

POTENTIALITIES

As **GEM** is a high-precision counter with real-time data availability, it allows the system operator (building or electrical installation) to take advantage of a series of parameters such as: optimization of electric energy, characterization of electrical charges of the installation, detection of anomalous consumptions (overvoltages, undervoltages, current peaks) and adequacy of contracted power.



TECHNICAL DESCRIPTION

FEATURES AND CHARACTERISTICS

Equipment features

1 Online real time monitoring | **2** Remote software update

3 Web access to equipment | **4** Secure access to the device through credentials

5 Available parameters in real time: instantaneous and average voltage (L-N, L-L), current, instant power and average power (active, apparent and reactive), power totalizer (active and reactive), frequency and power factor

Software features

1 Data history view in table and chart format

2 Filtering / sorting history data in table view

3 Export of data (totalizers, average values and

4 Configuration of voltage and frequency variation limits. Alarm notification when they are exceeded

5 User management and associated profiles

6 Can be used in single-phase and three-phase circuits.

GEM technical specifications

Operating Temperature	-20 to 50ºC
% of measurement error	0.5%
Mounting	DIN rail or panel
Power supply voltage	230 VAC
Consumption	3W
Dimensions	GEM: 106.5x55x90
	Meter: 71.7x64.6x71.7

CONTACTS

Version: A3

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GPS location in dº m´s´´

Latitude: 40°32'59.3" N
Longitude: 8°23'47.0" W

Globaltronic
spreading technology