



Energy-saving Solutions

www.isfoc.com



Operating Diagram



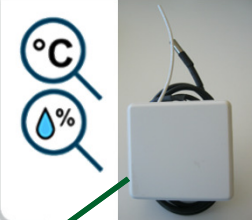
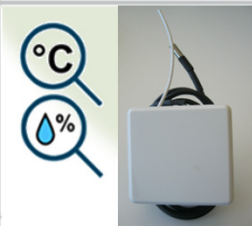
It is a **simple and economic** solution to optimise the energy consumption in buildings, offices and installations through the management and monitoring of the energy and with the advantage to compare, analyse and represent the data collected of several buildings using consumption graphs and customizable ratios.

enerBOX

Wireless transmitter with the capacity to measure up to 4 single-phase current lines or 1 three-phase of up to 100A.



Electricity consumption measures



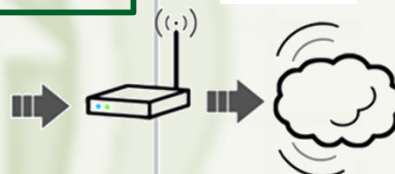
Temperature and humidity measures

recepBOX

Wireless receiver with the capacity to connect up to 30 nodes simultaneously.



Receiving station



ISFO
Serv. aplicaciones



Base de datos



WEBENER

Web application to visualize and monitor the electricity consumption data. It can also inform of the alerts and alarms to an email address.



ambientBOX

Humidity and temperature wireless meter.



Operating Diagram



It is a **simple and economic** solution to optimise the energy consumption in buildings, offices and installations through the management and monitoring of the energy and with the advantage to compare, analyse and represent the data collected of several buildings using consumption graphs and customizable ratios.

enerBOX

Wireless transmitter with the capacity to measure up to 4 single-phase current lines or 1 three-phase of up to 100A.



recepBOX

Wireless receiver with the capacity to connect up to 30 nodes simultaneously.



ISFO

Serv. aplicaciones



Base de datos



Optical pulse sensor

Device to carry out the electricity meter reading.



WEBENER

Web application to visualize and monitor the electricity consumption data. It can also inform of the alerts and alarms to an email address.



ambientBOX

Humidity and temperature wireless meter.



433 MHz

Max. 50m.

433 MHz

Max. 50m.

433 MHz

Max. 50m.



Solution components





Electric energy monitoring



It is a **simple and economic** solution to optimise the energy consumption in houses and offices .

How does it work?

Clamp meters are installed in the electrical panel so as to measure the consumptions of every circuit. This information is sent wirelessly from **enerBOX** to the receiver station, **recepBOX**, which will dump the data in real time to **WEBENER** platform. Thus, the user will be able to visualize the electric consumptions in the platform using the Internet, being also able to inform of alerts and alarms via email.



Specifications

- Display of powers and energies in real time and its cost in €.
- Display of historical data.
- Possibility to monitor the electricity meter used by the electricity company to charge for the electricity.
- Maximum distance of 50m between the devices.
- Possibility to measure up to 30 different nodes with the same **recepBOX**.

Advantages

- Energy consumption monitoring of electric devices in houses and offices.
- Optimization of the contracted electric tariff on the basis of the analysis of the consumption data.
- Elimination of stand-by consumptions.
- Simple Internet access .
- Contribution to the environment due to the reduction of CO2 emissions.

Characteristics

Model	enerBOX
External Voltage	12 V
Current consumption	54 mA
Freq. Range	433 MHz
Max. distance to receiver	50 m
Current sensors (max. 4)	100 A / 50 mA
External AC measurement	220 / 9 VAC

Model	recepBOX
External Voltage	5 V / 2.5 A
Freq. Range	433 MHz
Max. distance to sensors	50 m
Max. number of sensors	30 nodes

Model	ambientBOX
Power supply	2 x AA batteries
Sleep current consumption	0.12 mA
Average current consumption	9.5 mA
Freq. Range	433 MHz
Max. distance to receiver	50 m



WEBENER Platform



- **Data management and visualization via Web.** The user **only needs Internet connection** to access the tool. It is **not necessary to acquire** any additional **software or hardware**.
- **Monitoring of consumptions in real time and historical data consultation** obtained from the measuring devices through the execution of reports and monitoring indicators.
- **Registry, notification and alarms and alerts visualization system** in order to detect and solve undesirable habits and possible defects.
- **Centralised System**, allowing the **management of different locations**.

