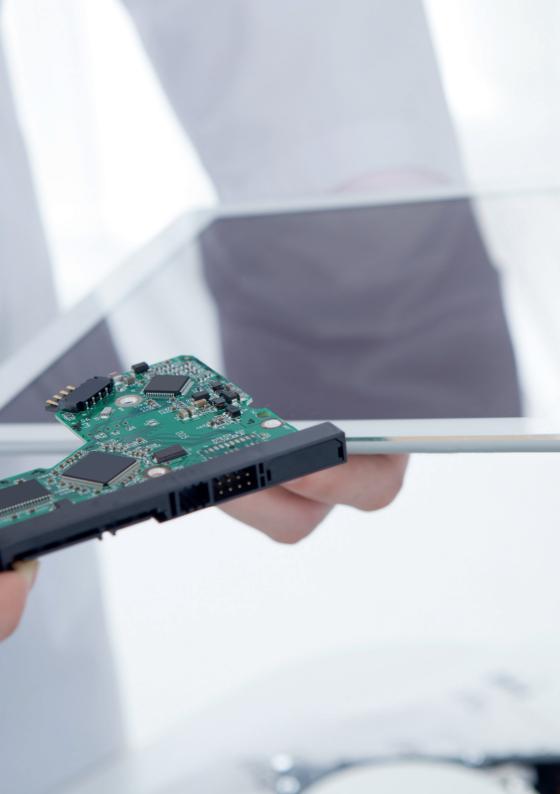




Technology for energy efficiency





At Circutor we have always placed special importance on innovation and developing technology to make more efficient use of our resources every day.

New wireless technologies give us access to a large quantity of information in real time from anywhere. This is what helps us to reach the next level.

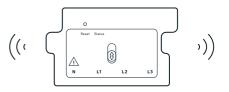


# An efficiency expert always with you

#### **WARNING**

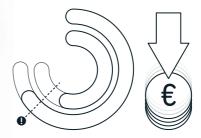
With the current consumption at the end of the month, the limit set on your device will be exceeded.

Wibeee is a consumption analyzer with a Wi-Fi connection that displays instantaneous and historical data of your electricity consumption from any smartphone device, tablet or PC through its app or built-in web server. It is the perfect tool to increase the efficiency of your electrical installation, allowing you to finally take control and decide where to spend your money. Finally, a device with personality. Wibeee displays everything you couldn't see before.



# Cable-free. Wireless system.

The entire system has been designed to monitor information over wireless communications networks. Nothing can come between Wibeee and you.



# Consumption control, electrical savings.

Wibeee collects the necessary data on electricity consumption and helps you interpret them, know your consumption profile and save on your energy bill. WIBEEE

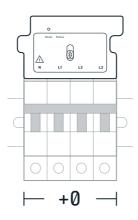
# As easy as attaching a magnet to your refrigerator

Installing electrical measuring units can be a complicated task; enough space and time for wiring are required. **Wibeee** is extremely easy to install; it can be assembled in just ten seconds.

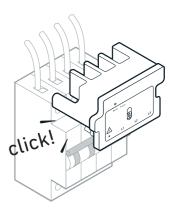
#### Installing Wibeee



#### New technology







#### Installing Wibeee

Bring it to a switch, that's all. No need to install transformers or auxiliary receivers.

#### **DIN-Zero DESIGN**

Wibeee takes up no space at all. It takes up no space on your electric panel.

CONNECTION-Zero It fits perfectly on any

electric panel, with no need for wiring.

WIBEEE MAX

# Take your analyser anywhere

The **Wibeee** family has been designed to guarantee a very easy connection, allowing users to use them in places of the installation in which **Wibeee** units cannot be mounted on DIN rails (>65 A). **Wibeee Max** and **Wibeee Max Plus** have been specially designed to help Installers, Auditors and Energy Service Companies define the following:

- Installation consumption baseline
- Consumption, by area and type of use
- Capacitor bank calculation
- Contracted power revision

Assembling Wibeee Max



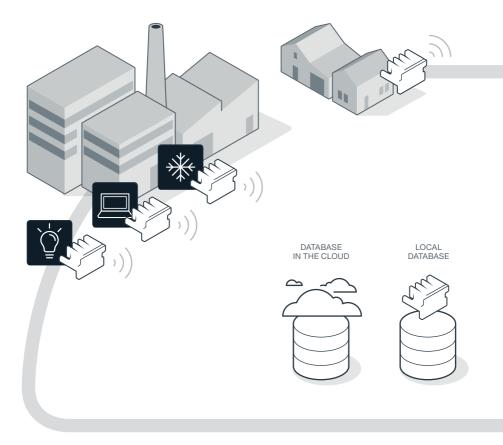


One of the added values of all Wibeee units is that they show the consumption of electricity in kWh, the economic cost and  $kgCO_2$  emissions associated with this consumption.



**Wibeee Max** and **Wibeee Max Plus** feature a 30-day backup memory to make sure no information is lost if the Wi-Fi signal is lost.

# The system is completely visible from anywhere



Wibeee logs the installation's electrical parameters so that you can view them from wherever you want: from your office computer, with a smartphone from the local coffee shop or lying down on your sofa at home with your tablet. Wibeee can also work in tandem with any other device that is compatible with the PowerStudio SCADA system.





#### LOCAL

Device built-in web application for configuration and data monitoring. Query using the device's IP.

#### CLOUD

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Web server application with database in the cloud. Query via <u>wibeee.circutor.com</u>.



#### MOBILE

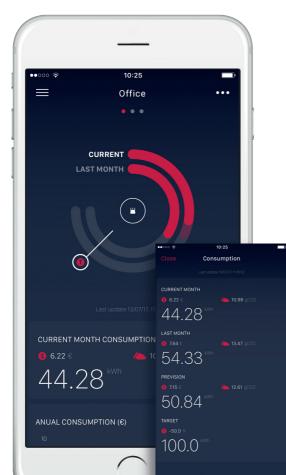
Application specially designed to be used on Android and iOS mobile devices. Consumption control from *everywhere*.

#### PowerStudio SCADA

Compatible with the management and data monitoring system. Can be integrated with the other units in your installation.

# The most powerful app

User friendly and intuitive *app* to monitor the data of any **Wibeee** unit connected to your installations remotely. Perfect for energy audits, such as the **ISO 50001**, to gather information on where, how and when energy is consumed.



All information required in a single screen:

• Current consumption Checks the consumption of the current month.

### • Consumption of the previous month

Compares the consumption with that recorded the previous month.

#### Expected consumption

Find out what your monthly consumption will be.

#### 🖸 Goal

Establish a consumption limit for each unit and receive alarms before this limit is exceeded.

#### Reducing consumption. A simple task

**Wibeee** is the perfect partner in any situation, whether at home, at the office, at the supermarket or in industrial scenarios; its versatility and functions can reduce your electrical energy consumption, wherever you are.

••000 🗢	10:25	
	Edit	Save
Cost		
		0,141019
		0,051127
		0,026530
		0,0
		0,115187
		1 >
		4,4
Notificaciones		
Wibeee has been inactive for 1 day		
Wibeee has been inactive for 3 days		
Overvoltage		
Undervoltage		

Edit each **Wibeee** unit individually, allocating economic costs and kgCO<sub>2</sub> emissions to the consumption of each installation.



It generates charts with the electrical variables and consumption to compare the progress in time and allow full control of your energy savings.





#### Wave shape\*

The *Wibeee* **app** displays the current and voltage wave shapes of your installation (\***Wibeee Max** / **Max Plus**).

## Alarms

#### Predicting consumption

**Wibeee** will notify you when you exceed your daily consumption limit. In addition, it can predict whether the current consumption will exceed last month's consumption, so you can check at any time that you are consuming the right amounts.

# 

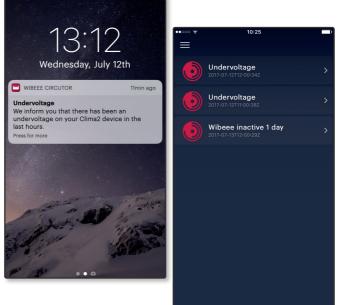
#### Disconnecting the unit

After 1 to 3 days of inactivity of the device, the **Wibeee** system will warn you about this incident. You will always receive *feedback* from the unit, ensuring your installation is supervised at all times.

#### Network voltage

**Wibeee** also launches notifications whenever the voltage is 10% higher or lower than the rated voltage configured in the system, thus allowing you to know whether the utility is providing you with the correct service.

••000	10:25	
	Edit	Save
Cost		
		0.051126
		0.02653
		0.0
		0.0
		17 >
		5.5
Notificaciones		
Wibeee has been inactive for 1 day		
Wibeee has been inacti	ve for 3 days	
Overvoltage		
Undervoltage		
High consumption		



# Comprehensive management

Clinate total

The system manages different **Wibeee** units in one centre, which can be grouped by type of energy use of each device in terms of power, i.e. lighting or air conditioning, among other types. Therefore, it provides global management of a building with different consumption points.

Lighting total



### Keep the accuracy

Wibeee devices are calibrated to guarantee their accuracy. However, the accuracy of the measurements must be checked in more complex installations. To achieve this, Wibeee App allows you to easily calibrate the unit during installation.

### Four quadrants

**Wibeee** differentiates between consumed and generated energy. If you are using a self-generation system at your home or company, you can also check the energy generated by your installation. Consumption analyser and generation analyser. Direct models, up to 65 A

# **Wi∍bee** Single-phase

# Wi∍bee

Three-phase, without neutral

### Wi∍bee® Three-phase, with neutral







#### **TECHNICAL FEATURES**

Power supply	Mechanical features
Connection type: Single-phase, Three-phase or 3 poles	Dimensions: (M) 49 x 48 x 50.5 mm;
Rated voltage: (M)(T) 85265 V~ (3P) 105440 V~ (p-p)	(3P) 53.5 x 48 x 50.5 mm; (T) 80 x 48 x 50.5 mm
Frequency: 5060 Hz	Weight: (M) 37 g. (3P) 53 g. (T) 64 g.
Consumption: (M)(T) 1.54.5 VA (3P) 2.84 VA	Enclosure: Self-extinguishing V0 plastic (UNE 21031, 90°C)
Measuring circuit	Environmental features
Voltage margin: (M)(T) 85265 V~ (3P) 105440 V~ (p-p)	Operating temperature: -10 °C +45 °C
Current margin: 165 A	Storage temperature: -40°C +85°C
Measurement accuracy	Relative humidity: 10 90% (without condensation)
Voltage: 2% (PF=1)	Maximum altitude: 2000 m
Current: 2%	Protection degree: IP40
Power: 4%	Safety
Communications	Double insulation. II IEC/EN 61010-1:2010
Type: Wi-Fi IEEE 802.11	Standards
Frequency range: 2,405 - 2,480 GHz	UNE-EN 61010-2-030:2011
Encryption: AES128	UNE-EN 61326-1:2006
Certification: FCC (USA), IC (Canada) and ETSI (Europe)	EN 301 489-17 V2.2.1

Indirect models, up to 5,000 A

Wi∍bee Max



## **Wi∍bee** Max Plus



#### **TECHNICAL FEATURES**

Power supply	Memory
Rated voltage: 100 400 V ~	Internal backup memory, up to 30 days.
Frequency: 50 60 Hz	Mechanical features
Consumption: 4.5 9 VA	Dimensions: 105 x 130 x 55 mm
Measurement circuit	Weight: 1,700 g.
Voltage margin: 100 440 V <sub>P-N</sub>	Enclosure: Self-extinguishing V0 plastic (UNE 21031, 90°C)
Current margin:	Environmental features
Wibeee Max (Flex Wibeee 14) - 350 A / 700 A	Operating temperature: -10°C +60°C
Wibeee Max Plus (Flex Wibeee 54) - 100 A / 1000 A / 5000 A	Storage temperature: -40°C +85°C
Measurement accuracy	Relative humidity: 10 90%
Voltage: 1%	Maximum altitude: 2000 m
Current: 1%	Protection degree: IP20
Power: 2%	Safety
Communications	Double insulation II - IEC 61010-1:2001
Type: Wi-Fi IEEE 802.11	Standards
Frequency range: 2,405 - 2,480 GHz	UNE-EN 61010-2-030:2011
Encryption: AES128	UNE-EN 61326-1:2006
Certification: FCC (USA), IC (Canada) and ETSI (Europe)	EN 301 489-17 V2.2.1



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