ECOsense User Manual

About ECOsense

Congratulations on purchasing the ECOsense energy saver. With its elegant look and energy save feature you can now lower your electric cost and by doing so help saving the environment.

What is ECOsense

ECOsense Automatically and Wirelessly Power Off Air-Condition and Heater (with remote control) in an empty room to Save Energy.
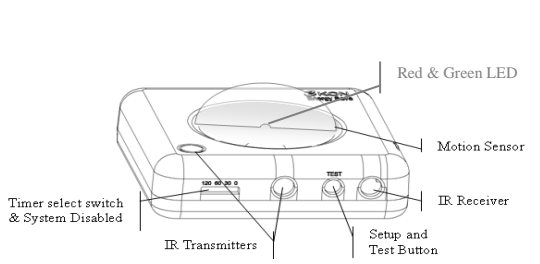
Key Features of ECOsense

☑ Cut Electricity bills by up to 20%
☑ Automatically Turns Off Heating and Air-Condition when room is left empty for a preset time (15, 30 or 60 min)
☑ DIY - No need wires or complex installation
☑ Totally wireless, simply fix on wall or ceiling
☑ Best seller product for the current economy
☑ Effective solution for Green Environment
☑ Low-Cost device with High-Savings

Specification

☑ Voltage: 3VDC (2 AAA batteries)
☑ Size: 60 x 60 x 15 mm
☑ Detecting range: <6M at 360^0
☑ IR transmitting range: <6M
☑ IR transmitting direction: one in front and one on side
☑ IR learning code: 2 IR commands of most devices (stored in Flash memory – also if no battery installed)
☑ Mounting: optional Ceiling or Wall with screws or sticker
☑ Indoor use only, 5 to 40°c, up to 85% relative humidity
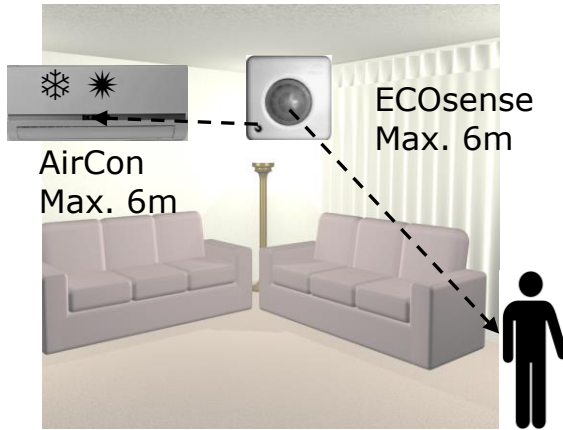
What's included

☑ ECOsense device
☑ User Manual

1. Mounting

ECOsense should be implemented in the same room where the air condition is located with direct eye contact between the IR transmitter (of ECOsense) and the IR receiver of AirCon.
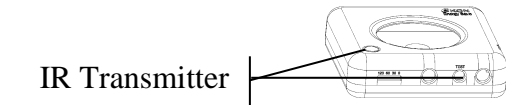The maximum distance between ECOsense and the AirCon is 6 meters, depend on the AirCon manufacturer.

ECOsense should be fixes on the wall or the ceiling of the room by Double side tape or 2 Screws.

ECOsense should be located in a central location where it can sense people movement in all locations of the room. The motion sensor can detect human body movement within a range of maximum 6 meters.
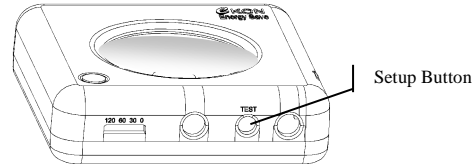

ECOsense tips of location in room:

☑ Locate as close as possible to where people are most present in the room to ensure no false turn off
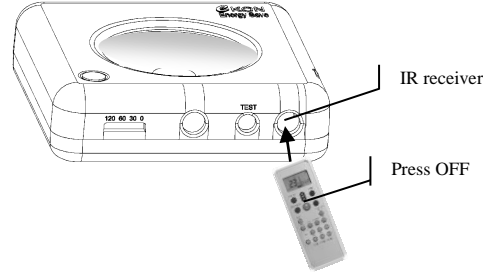☑ ECOsense has 2 IR transmitters – make sure at least one is facing IR device

☑ Do not place close to window or direct sunlight
☑ Do not face towards moving objects such as Curtains in the wind, hang up balloons, etc.
☑ Motion sensor detects pets which will cause the timer to recount and so will delay the power off until no movement for the full preset time

2. IR command setup

A. Press Setup button for 7 sec without relaxing, till red light turns on (enter setup mode).

B. Turn On the aircon with remote
C. Point AirCon remote 1 cm away from ECOsense's IR receiver and Press Power button once

Green light will flicker once if the process is IR received successfully; or it will flicker 5 times if failed (try to learn again from 5 cm distance)

D. Optional - Send 2nd Off command from another AirCon remote. If IR received successful then ECOsense will exit Setup mode (Red light go off).

This step is optional – if only 1 command is required, press the Setup button again to exit.
E. If no command is send within 15 seconds it will exit setup mode automatically
F. Pressing setup button 10 seconds will erase all IR commands (red light follow by green will go on)

Notes about IR learning
Most air-condition have the same button for Power On and Power Off but in fact they send different commands. In that case, turn the AirCon ON (so the LCD displays the temperature) and then press the power button again facing the ECOsense.

In case the AirCon or other devices have the same command for on and off then ECOsense can not be used on this device.
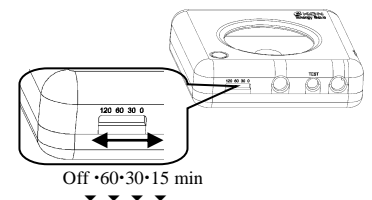
Testing IR commands (manual)
Press setup button once will transmit the command\s one after the other (the green light will flash at the same time)

3. Motion Sensor (Timer) Setup

When Motion sensor STOP detecting human motion (someone leave the room), ECOsense activates a timer. Once timer reach zero it will send the OFF command/s to power off. The timer will restart counting whenever motion sensor detects motion again.

The time from the instant room is left empty till Power Off commands are sent is set by user using the Select Switch:

Off ·60·30·15 min

Select between 15 minutes, 30 minutes, 60 minutes and off (disabled). The time selection depends on the activity in the room. In case of office where there are many people present in the same area and there is a lot of movement then the timer can be set to 15 minutes.

In case of bedroom, where there is less movement, it is preferable to set the timer to 30 or 60 minutes to avoid false power off.

4. Low Battery indication

When the batteries are low, the red light flashed once in every 60 seconds to indicate to change batteries as follows:

2 x AAA Batteries