

# Air-Con Monitor Basic

## Manual and Setup Guide v3.14

### Scope

This document explains how to setup and configure Air-con monitor Basic unit using the button. The document also gives an overview of the normal operation.

### First Power Up

For best results use Alkaline AA batteries or better to ensure long life. Please do not use rechargeable batteries. When the unit is powered up for the first time the **RED** LED remains illuminated for 15 seconds and then stops for 3 seconds. During this time the PIR is being allowed to settle to avoid any false triggers.

*This means the unit cannot be interacted with for 20 seconds.*

### LED's

In normal operation the LED's will indicate the following:-

**RED** Flash

*Movement was detected from the PIR sensor*

**GREEN** Flash

*The IR commands are being sent*

In setup mode the LED's will indicate

**RED** Flash

*The number of flashes per second will indicate the current setup mode the unit is in*

**GREEN** Flash

*The **GREEN** LED will indicate either the parameter selected or unit status depending on current mode*

### Normal Operation

In Normal operation the unit will wake up once a minute or if movement is detected. The unit will wake to movement once in a 1 minute period. On every timed wake up the unit will record the current daylight level and also check to see if any sensors need timers increasing.

On each timed wakeup a counter is incremented for the movement sensor. If movement is detected then the counter is reset to zero. If the unit wakes up a specified number of times (set by the PIR delay in minutes) without detecting movement then the IR OFF Command will be sent on the final wake up.

### IR Commands

Air-Con Monitor Basic has 1 IR command:-

Air-con OFF command. - This command will switch the Air control unit off.

The following conditions must be met for the unit to send out the recorded IR command.

#### For OFF Command

- The Air-con OFF Command must be stored.
- The PIR delay time has been exceeded.
- The light sensor is either disabled or the current light reading indicates its light enough to send the IR command. (The command will not be sent when its dark)
- The unit is within an active time window.

### Opening the unit for viewing LED's.

To open the unit unscrew the bottom and lift up to release for access to the battery compartment and setup LEDS. Please Make sure when inserting batteries the - (negative) side of the batteries make contact with the springs.

When programming with the button you will be able to easily view the LED's with the top removed.

When closing the top locate the top notches then lower in place and screw back. Be careful not to bend the raised IR transmitter LED and it is located in line with the round hole in the lens.

## Button

The button has three types of presses

Very long press – The button is pressed and held down for 15 seconds

*This button press will return all configurations to factory settings and all IR commands stored will be deleted.*

On start-up the button is pressed and held down for 2 - 3 seconds

Long press – The button is pressed and held down until the next mode is indicated on the **RED** LED.

Short press – The button is pressed and held for ½ second.

Pressing the button will always wake the unit from sleep.

## Battery Low

The battery is checked on every wakeup (once a minute). If the battery found to be low both **RED** and **GREEN** LED's will flash 5 times every minute.

## Setup Mode

### Reset to Factory defaults

From set up mode if the button is held for 15 seconds all configurations will be set back to factory settings and IR commands stored will be deleted.

After 15 seconds the **RED** and **GREEN** LED will start flashing 3 times simultaneously. This will indicate to the user the unit has now been set to factory defaults. The unit will return to normal operating mode once complete.

A unit set to factory defaults has the following settings:-

Movement Sensor: Enabled.

No Movement Detect Delay: 15 minutes.

Light Sensor: Disabled.

### Changing Setup Modes

The unit has 4 setup modes. Each mode controls a different configuration parameter.

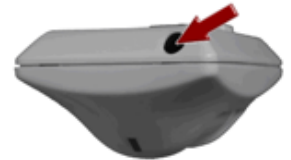
To enter setup mode press the button and hold for 2 seconds. The unit will enter setup mode 1 indicated by a single flash every 3 seconds on the **RED** led. Releasing the button and then pressing holding down the button again until you see 2 **RED** flashes and releasing again will put the unit into setup mode 2. This can be repeated to access all 4 setup modes.

During any mode pressing the button for 10 seconds will return the unit to normal operation.

The **RED** LED will indicate the current mode the unit is in by the number of flashes shown in a 3 second period.

A short button press will change the current setting, indicated by the **GREEN** LED. The short button press operation will vary depending on which mode is currently active.

The following lists the Setup mode function and instructions on how to set each parameter.



To start the programming mode give the black programming button a short press.

### Setup Mode 1

Indicated on **RED** Led as 1 flash every 3 seconds.

This mode is used to set the OFF command. To set press the button using the short button press to light the **GREEN** LED. This indicates the unit is waiting for an IR command.

Make sure your air-con remote is set to on well away from the Air-Con Monitor so it does NOT pick up the on signal before then pointing the remote directly at the monitor and pressing OFF to send the OFF IR command from the Air-con remote control. When the command is received and stored the **GREEN** LED will switch off. The operation can be re-performed with a further short button press.

If the button is pressed and no IR signal is received after 10 seconds the unit will timeout. If this timeout occurs this will clear any signal currently stored for the OFF command.

To leave the setup mode with the last command stored. Press and hold the button **until you see 2 RED flashes** and release to move to the next setup mode or 10 seconds to return to normal operation.



## **Setup Mode 2**

Indicated on **RED** Led as 2 flashes every 3 seconds.

This mode will transmit the currently stored OFF command. The command is transmitted on each short button press. The command is sent once per button press. The **GREEN** LED will flash when the command is transmitted.

To leave the setup mode with the last command stored. Press and hold the button **until you see 3 RED flashes** and release to move to the next setup mode or 10 seconds to return to normal operation.

## **Setup Mode 3**

Indicated on **RED** Led as 3 flashes every 3 seconds.

This mode controls the PIR delay time. The table below lists the time delays available which can be selected using the short button press. The **GREEN** LED will indicate the current time delay selected. To set the time delay, select the desired setting using the short button press.

Short Button Press	Parameter Set	Green Flashes per second
1 <sup>st</sup> Press	15 minutes	1 Flash
2 <sup>nd</sup> Press	30 minutes	2 Flashes
3 <sup>rd</sup> Press	60 minutes	3 Flashes
4 <sup>th</sup> Press	DISABLED	4 Flashes
5 <sup>th</sup> Press will cycle back to 15 minutes		

Then press and hold the button **until you see 4 RED flashes** and release to move to the next setup mode or 10 seconds to return to normal operation.

## **Setup Mode 4**

Indicated on **RED** Led as 4 flashes every 3 seconds.

This mode will enable or disable the light sensor. A short button press will enable or disable the light sensor. This will be indicated by the **GREEN** LED.

**GREEN** LED on – Light sensor enabled.

**GREEN** LED off – Light sensor disabled.

To leave the setup mode, press the button until the RED led goes off for normal operation.

## **Sighting the Monitor**

The monitor needs to be able to send the IR signal to the unit in the same way as the remote control, so needs to be preferably in line of sight. You can test this by sending the off signal (Mode 2) test from where you plan to site the unit.

### **Limited Warranty**

Seller warrants to the original consumer purchaser of this product that, for a period of one year from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this User's Manual. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, go to our returns section on our website: [www.eco-energysavers.co.uk/Shop/](http://www.eco-energysavers.co.uk/Shop/) and click on returns at the bottom of the page to receive a Return Authorisation number, properly package the product (with the Return Authorization number clearly printed on the outside of the package) and send the product, along with all other required materials, to the address on your returns form.