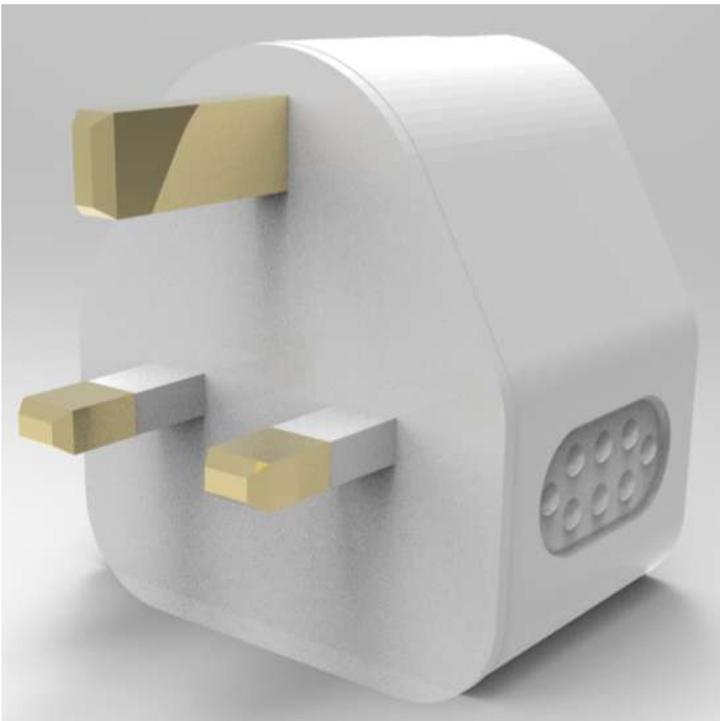




## Frequently Asked *Nano*Control™ Questions



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## 1 How does it work?

- The **NanoControl™** product is a smart plug with advanced features.
- **NanoControl™** disconnects and connects the electrical appliance plugged into it according to how you have configured your **NanoControl™**:
  - You can select to have the connected electrical appliance switched on or off at programmed time intervals. For example, this is useful to save energy on your fridge, by switching the fridge off for certain periods during the day.
  - You can select to have the connected electrical appliance switched on or off by other events. For example, your **NanoSecure™** product detects an intruder and you wish your **NanoControl™** switch on a lamp or sound a siren alarm.
  - You can select to have the connected electrical appliance manually switched on or off by your phone or tablet, from anywhere. For example, you might have forgotten to switch off the television or electrical fire when you have gone out.
  - You can select to have the connected electrical appliance switched off if too much energy is used. For example, you can set yourself a budget of only using the tumble dryer for a specific time period during the day, or perhaps after a specific cost of energy used.
  - Perhaps there is a fault in the connected electrical appliance and you know that it should not draw more than 3 amps from the mains supply. You can set a maximum draw limit and the connected electrical appliance will be disconnected if this limit is exceeded.
- **NanoControl™** also measures the amount of electrical energy that the connected electrical appliance is using, and can be configured to raise alarms when certain limits are reached and will also send regular updates of the energy being used.
- **NanoControl™** can also detect when the connected appliance has been removed. For example, you have connected your PlayStation to **NanoControl™** to limit the time that your children spend playing on it. Once that time limit is up, the PlayStation would be switched off, so the children might decide to unplug the PlayStation from **NanoControl™** and plug in into another socket. **NanoControl™** will send you an alarm that the PlayStation has been disconnected.

## 2 How many **NanoControl™** sensors can be fitted at the same time?

- Currently, up to 16 CarbonNano sensors can be fitted, however with further updates to the **NanoHub™** this will increase further.

### 3 How do I install the **NanoControl™** sensors?

- Easy, just think about what connected electrical appliances you are trying to monitor and then connect the **NanoControl™** smart plug accordingly.
- Then all you need to do is to set up what you wish the **NanoControl™** to do using the **NanoApp™**.

### 4 How much does it cost to run?

- **NanoControl™** is fitted with an efficient internal power supply that uses a small amount of your mains supply.
- When the connected electrical appliance is switched on, **NanoControl™** uses approximately 1 watt. Therefore if the appliance was permanently switched on over the period of a year this equates to approximately 9 kWh. At a cost of £0.25 per kWh, the **NanoControl™** would cost approximately £2.25 for the whole year.
- When the connected electrical appliance is switched off, **NanoControl™** uses approximately 0.4 watts. Therefore if the appliance was permanently switched off over the period of a year this equates to approximately 3.5 kWh. At a cost of £0.25 per kWh, the **NanoControl™** would cost approximately £0.87 for the whole year.

### 5 What happens when I am not at home?

- Alarms and electrical use information will be sent to your phone, tablet and computer, whichever is running the **NanoApp™**.
- Using the **NanoMesh™** network, alarms can also be sent to your neighbours, friends and family etc, perhaps if you are on holiday or away for the evening.

### 6 What happens when I am at home?

- Alarms and electrical use will be sent to your phone, tablet and computer, whichever is running the **NanoApp™**.
- Using the **NanoMesh™** network, alarms can also be sent to your neighbours, friends and family etc, perhaps if you are a vulnerable person.

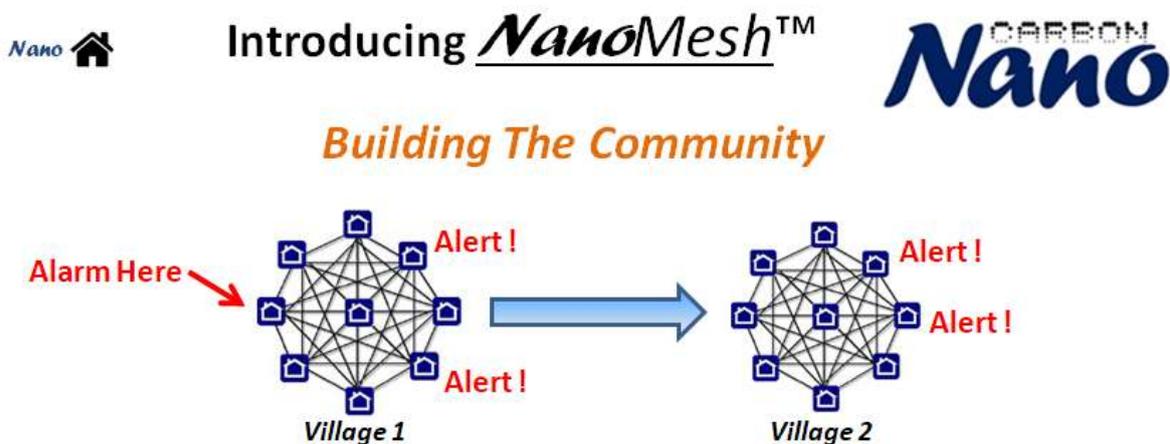
- You can setup your **NanoHub™** to switch on its alarm bleeper when it receives an alert message if you wish to.

## 7 What happens if I do not want to receive alarms?

- Alarm notifications can be switched off or on using the **NanoApp™**.
- You can also select what type of alarms you receive.

## 8 How do my neighbours, friends and family get alerted?

- CarbonNano offers the **NanoMesh™** network as a free of charge service.
- From your online account, you can choose to add people to your **NanoMesh™** network, and they will also receive your alarms.



- When alarms are raised from **one person's** home or garden, **everyone** in the **NanoMesh™** network receives the alert.
- For early **warning of flooding**, the home that is closest to the rising water level can alert the whole village, and the next village, and so on etc.
- For early **warning of intruders**, the home that is affected can alert their neighbourhood watch, friends, family or sheltered accommodation schemes, and so on etc.

## 9 Does it work inside and outside?

- Yes, **NanoControl™** smart plugs have a long radio range and can operate both inside your home and also outside in an out building. The Product should not be used directly outside unless it is protected from the weather.

## 10 How far away from the house will it work?

- **NanoControl™** smart plugs use radio to communicate to the **NanoHub™** and the radio range depends upon:-
  - How far your **NanoHub™** is away from the **NanoControl™** sensors.
  - What type of house walls you have and how damp they are.
  - If you house is made from re-enforced concrete.
- The radio range easily copes with a “typical” brick/block built cavity wall home and a large garden with a concrete walled garage.
- The “free air” line of sight radio range is a built up area is circa 300m.

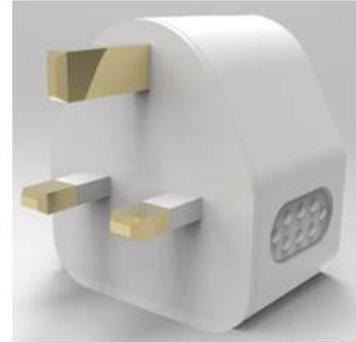
## 11 What are the NanoControl™ specifications?



# NanoControl™ :- CARBON Nano

### NanoControl™ Features :-

- Simple to install, compact size, just plug in !!
- Mains powered, very cheap to operate.
- Remote switch on/off using NanoApp™
- Programmable switch on/off times.
- **Measures energy usage.**
- Appliance unplugged detection capability.
- **Long radio range.**
- Advanced message encryption.



### NanoControl™ Features:-

Up to 13 amp rated appliances.

Measures energy used by appliance.

Over current safety switch off.

Detects when appliance has been removed.