Frequently Asked *Nano*H20™ Questions
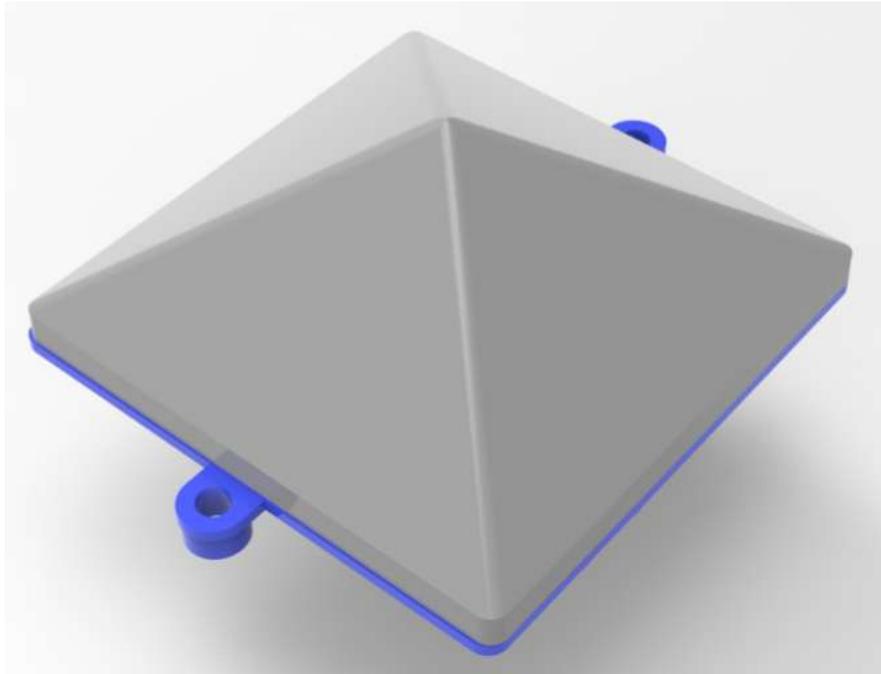
Contents

1   How does it work?

- The *Nano*H20™ sensor is a flood and moisture/damp environmental detector.

- It can be configured to raise alarms when flood or moisture/damp limits are reached and will also send regular updates of the environmental parameters.

- The *Nano*H20™ can be located inside or outside the home, the following provides examples of its location:-

    o   Position near a river to provide early warnings of flooding.

    o   Position in a cellar or at the end of the garden to provide early warnings of flooding.

    o   Screw to a wall to provide measurement and warnings of damp.

    o   Push into the soil in a greenhouse to provide measurement and warnings of soil moisture content to protect your plants and let you know when they need watering.

- The *Nano*H20™ can also be fitted with external sensors (such as an external temperature sensor).

2   How many *Nano*H20™ sensors can be fitted at the same time?

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

3   How do I install the *Nano*H20™ sensors?

- Easy, just think about what environmental aspect you are trying to monitor and then place the *Nano*H20™ sensor accordingly.

- If you are using the Product as a Flood Detector, then position the Product to give you advance warning of rising water (riverbank) or perhaps in your cellar. Please remember to suitably tether the Product so that it is not washed away in the event of a flood.

- If you are using the Product as a Damp Surface Detector, you will need to fit the two short pointed probes and then screw the Product to the wall or surface to measure. The short probes pierce the surface (such as plaster board), and will leave small indentation marks. Please be careful not to over-tighten the mounting screw when fixing to a surface.

- If you are using the Product as a Soil or Material Damp Detector, you will need to fit the two long probes and then push the Product into the material, so that the Product rests on the surface and the probes are fully inserted into the soil or material.

- Then all you need to do is to set up what environmental aspects are monitored using the *Nano*App™.

- If you are using the *Nano*H20™ sensor to monitor soil moisture content or damp wall measurements, you might also wish to set up minimum and maximum alert levels etc. using the *Nano*App™.

4   How long do the batteries last?

- *Nano*H20™ is supplied with 2 x 2032 coin cell batteries that should last approximately 5 years. A solar cell is also fitted inside the Product to help with battery life.

- The *Nano*App™ will inform you when the batteries are running low.

5   What happens when I am not at home?

- Alarms will be sent to your phone.

- Using the *Nano*Mesh™ 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 will be sent to your phone.

- Using the *Nano*Mesh™ network, alarms can also be sent to your neighbours, friends and family etc, perhaps if you are a vulnerable person.

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

- You can set up your *Nano*H20™ sensor to switch on its alarm bleeper when it sends 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 *Nano*App™.

- You can also select what type of alarms you receive.

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

- CarbonNano offers the *Nano*Mesh™ network as a free of charge service.

- From your online account, you can choose to add people to your *Nano*Mesh™ network, and they will also receive your alarms.

Flood Detection

Advanced Flood Warnings

- Home 2's flood detectors give warning of rising water.

- Home 1 may be a family member's home in the next village, or may be the next door neighbour etc. If Home occupants are away, they still receive the alarm by Phone.

- Allows all networked homes time to react, to move valuable items upstairs and care for vulnerable people, pets, items stored in out buildings, cars etc.

9   Does it work inside and outside?

- Yes, *Nano*H20™ sensors have a long radio range and can operate both inside your home and also inside your greenhouse or away from your home at a riverbank for example.

- If you are using *Nano*H20™ as a flood monitor, CarbonNano recommends that the *Nano*H20™ is suitably tethered to stop it floating away with rising water.

- If you are using *Nano*H20™ as a damp monitor, it can be screwed to a wall and left in situ.

10   How far away from the house will it work?

- **Nano**H20™ sensors use radio to communicate to the **Nano**Hub™ and the radio range depends upon:-

  o How far your **Nano**Hub™ is away from the **Nano**H20™ sensors.

  o What type of house walls you have and how damp they are.

  o 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.

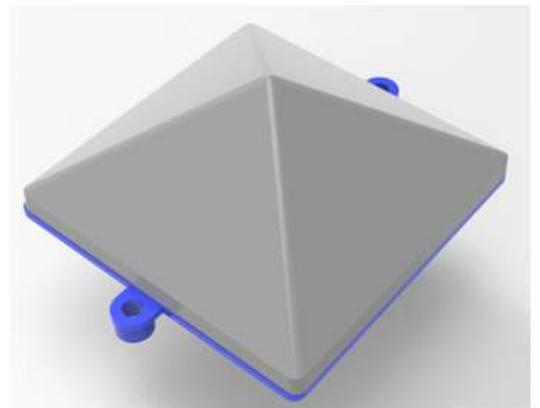## 11   What are the **Nano**H20™ specifications?

NanoH20™

NanoH20™ Flood/Damp Monitor:-

- Simple to install, indoors / outdoors.
- Data sent to Phone App, Tablet, Computer.
- Historical data available for trends.
- Advance warnings using **Nano**Mesh™ to connect with neighbours / agencies.
- Multiple feature uses.
- Long battery life > 5 years.
- Long radio range.
- Advanced message encryption.

NanoH20™ Features :-

- Flood detection.
- Damp content.
- Other external sensors.
- Solar cell to assist battery life.