



Netatmo Sunshield

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Summary

Radiation shield for your Netatmo wheather station, preventing direct sunlight to invalidate your temperature readings.

[Household](#) > [Outdoor & Garden](#)

Tags: [outdoor](#) [weatherstation](#) [netatmo](#) [sunshield](#)

The Netatmo outdoor module is supposed to be placed in a shady place with sufficient air flow for accurate readings. Ideally, it is placed high above the ground and not too close to buildings.

However, it's not always easy to find a spot where the sun is not shining at least at some times of the day. So we need to make our own shade, taking care that we don't block the air flow/convection.

This sun shield has an outer diameter of about 13cm, leaving around 2,5cm distance to the Netatmo module in order to avoid heat transmission (see cross-section image).

Note: You need to provide an own adapter for mounting the shield to whatever suits you. The shield provides a central hole for a M6 screw at the bottom ring. The mounting foot in the images ia just an example for my very specific mounting situation and is not provided here.

Printing

You will need:

- 1x Bottom (no support needed)
- 3x Pillar (no support needed, print laying flat on its side)
- 5x Segment (no support needed, print upright)
- 1x TopRing (no support needed, use 100% infill and high temperature while printing so that it doesn't break when inserting/removing the roof)
- 1x Roof (**needs support, of course!**)

I printed it in Formfutura "stealth white" matte PLA. I chose a layer height of 0.1mm for the segments and the roof. With this filament the layers are almost invisible. I used 0.2mm for the remaining parts.

Assembly

No glue or screws needed!

Start with the Bottom part, three pillars and the first segment. When the fit, add the next segment from above and put it in place carefully. Proceed with the next segments, until all are in place.

Now, take the TopRing and snap it in-place. This might need some force. If you have the impression that its too hard, slightly shorten one of the prongs that go into the TopRing with sand-paper and try again.

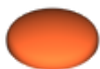
Connect to your custom mount foot (not provided) with M5 screw. Now you can insert your Netatmo module and snap-in the roof.

Model files



assembled.stl

☐ All parts together, for your reference



roof.stl

☐ Print 1x



segment.stl

 Print 5x



pillar.stl

 Print 3x



bottom.stl

 Print 1x



topring.stl

 Print 1x

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