



## Radiation shields for DIY weather station



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updated 13. 9. 2022 | published 13. 9. 2022

### Summary

Universal radiation shields for various environmental sensors such as temperature, air pressure or humidity



5.50 hrs



4 pcs



0.20 mm



0.40 mm



PET



51 g



Prusa MINI /  
MINI+

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A universal radiation shield for various environmental sensors such as temperature, air pressure or humidity. It is recommended to print the radiation shield from PETG or another UV stable material.

### Print instructions

#### Parts

- 2x [Stainless Steel Threaded Rod - 250mm M3](#)
- 3x [Stainless Steel Washer - M3](#)
- 6x [Stainless Steel Hexagon Nuts - M3](#)

## Assembly

- Print one of the Bases (Normal, V2 or V3)
- Print Top
  - Use 4 vertical perimeters
  - Pause while printing to insert nuts
- Print Rings depending on your needs
  - Use 4 vertical perimeters
  - I printed six rings
- Cut the threaded rods to your needs. Some tips:
  - The top hole is 6.8mm deep
  - Each ring needs 12mm
  - The base needs 12.5mm
  - Add some space at the end for the nuts and the washer
  - With six rings I shortened the threaded rods to 100mm

## Links

The links to AliExpress are advertising links. I would be happy if you use this link, but of course you don't have to. I have linked exactly the offers from which I have also bought and was satisfied with the supplier and the goods. The products can of course be bought anywhere.

## Model files



**radiation\_shield\_base.stl**



**radiation\_shield\_top.stl**



**radiation\_shield\_ring.stl**



**radiation\_shield\_auxholder\_v3-2.stl**



**radiation\_shield\_auxholder\_v3-1.stl**



**radiation\_shield\_base\_v2.stl**



**radiation\_shield\_base\_v3-2.stl**



**radiation\_shield\_base\_v3-1.stl**

## Print files



**prusa\_radiation\_shield\_ring\_02mm\_petg\_mini\_53m.gcode**

⊗ PET   ⊕ 0.40 mm   ≡ 0.20 mm   ⌚ 0.89 hrs   ⚖ 8 g   🖨 Prusa MINI / MINI+

☐ Single Ring



**prusa\_radiation\_shield\_ring\_02mm\_petg\_mini\_2h39.gcode**

⊗ PET   ⊕ 0.40 mm   ≡ 0.20 mm   ⌚ 2.65 hrs   ⚖ 26 g   🖨 Prusa MINI / MINI+

☐ Three rings at once



**prusa\_radiation\_shield\_top\_02mm\_petg\_mini\_1h11m.gcode**

⊗ PET   ⊕ 0.40 mm   ≡ 0.20 mm   ⌚ 1.18 hrs   ⚖ 12 g   🖨 Prusa MINI / MINI+



**prusa\_radiation\_shield\_base\_02mm\_petg\_mini\_3h26.gcode**

⊗ PET   ⊕ 0.40 mm   ≡ 0.20 mm   ⌚ 3.43 hrs   ⚖ 31 g   🖨 Prusa MINI / MINI+

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