



Radiation shields for DIY weather station

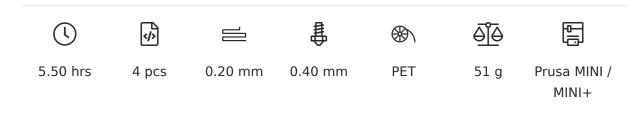


VIEW IN BROWSER

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Summary

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



<u>Hobby & Makers</u> > <u>Other Ideas</u>

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 base v2.stl



radiation shield base v3-2.stl



radiation_shield_base_v3-1.stl



Print files



 $prusa_radiation_shield_ring_02mm_petg_mini_53m.gcode$



 $prusa_radiation_shield_ring_02mm_petg_mini_2h39.gcode$



 $prusa_radiation_shield_top_02mm_petg_mini_1h11m.gcode$



 $prusa_radiation_shield_base_02mm_petg_mini_3h26.gcode$

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