



## Prusa enclosure SwitchBot smart hygrometer thermometer upgrade



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### Summary

An upgrade to the stock Prusa enclosure hygrometer thermometer to a more accurate one

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I use the SwitchBot smart hygrometer and thermometer in all of my filament dryers because it has a much more accurate hygrometer sensor good from 0-99% RH +/- 2%. This unit also has the ability for remote monitoring with either bluetooth or using their hub which I find helpful. I figured an upgrade to the one that came with the Prusa enclosure would be in order since I have determined I like this in my filament dryer. I also have designed one for the Prusa XL enclosure.

#### Materials:

[https://www.amazon.com/gp/product/B09GYKJ3WL/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&th=1](https://www.amazon.com/gp/product/B09GYKJ3WL/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1)

<https://www.mcmaster.com/94180A333/>

Stock 3mm screws supplied with the Prusa enclosure to attach the stock thermometer/hygrometer

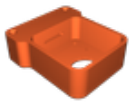
## Print Details:

I printed using prusament ASA, no supports needed. Default settings in the enclosure with a bit of heat added to keep the enclosure temp around 40C. Any other material would work just fine as well.

## Assembly:

Print, add the plastic threaded inserts, and screw it in to the stock location in the enclosure using the stock 3mm screws provided with the kit. The SwitchBot comes with an adhesive backed magnet and there is a molded cutout for this in the design. Its use is optional (I didn't use it) as the hygrometer has a nice friction fit in the mount.

## Model files



thermomteter-mount-v5.stl

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