Unlock the full potential of your 3D printers with Home Assistant. Transform your old Raspberry Pi (RPI) into a powerful tool for monitoring and controlling your 3D Printer(s). Follow the link below to discover the possibilities.

Requirements RPI 3B or higher.

SD card application class 2, 32GB or higher.

Installing HA on your RPI

https://www.home-assistant.io/installation/raspberrypi/

Make a dashboard (give it your printer name or Icon whatever you like)

https://www.youtube.com/watch?v=oo2HR6FyV6k

Leave the dashboard empty for the moment you will fill it later.

Once your HA is up and running install HACS (Home Assistant Community Store)

Installing HACS

https://www.youtube.com/watch?v=Q8Gj0LiklRE

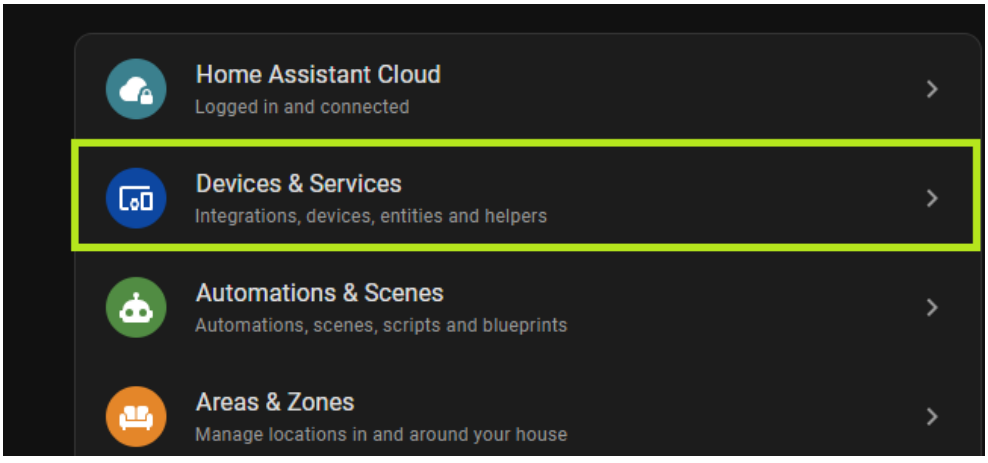
Install the Bambu Lab integration.

From HACS search for Bambu Lab – click the integration – on this page click the button as shown below

This will install the integration. This will only download the integration and prepare for configuration

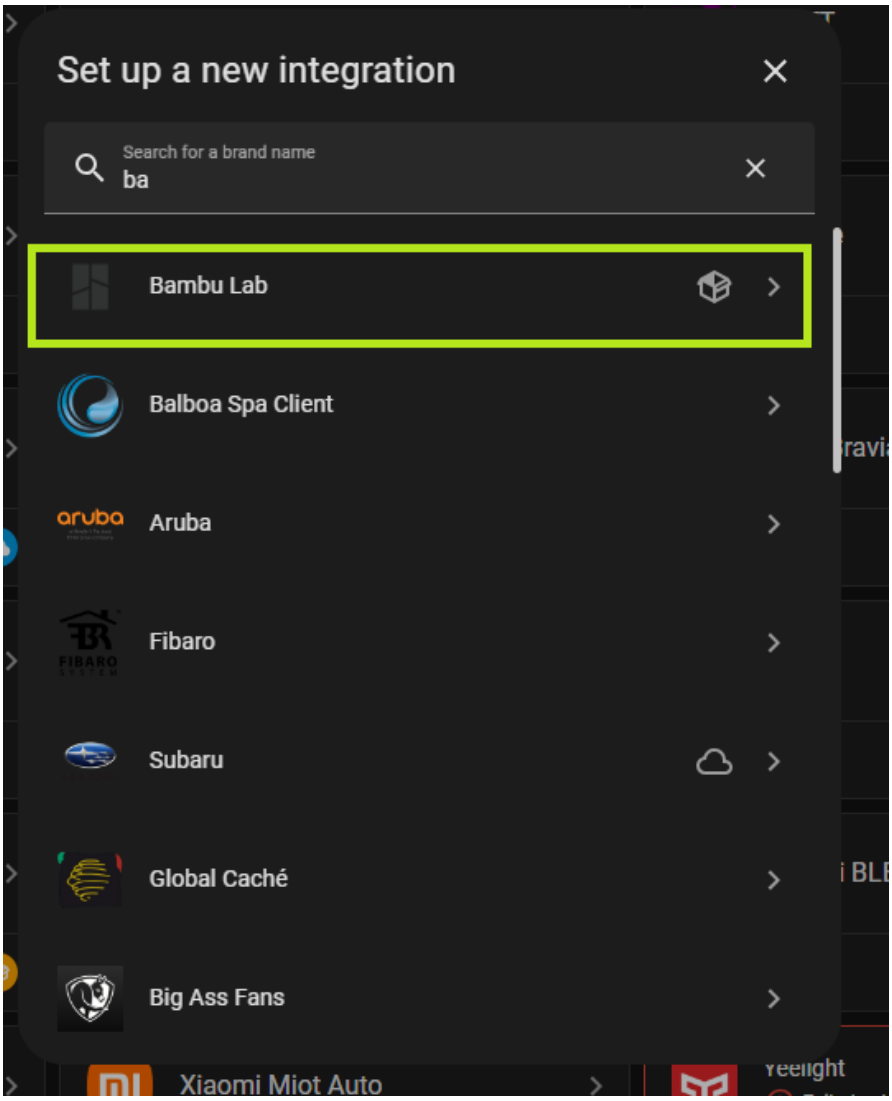
Activate Bambu Lab integration

In the side menu bar click Settings and then click Devices and services



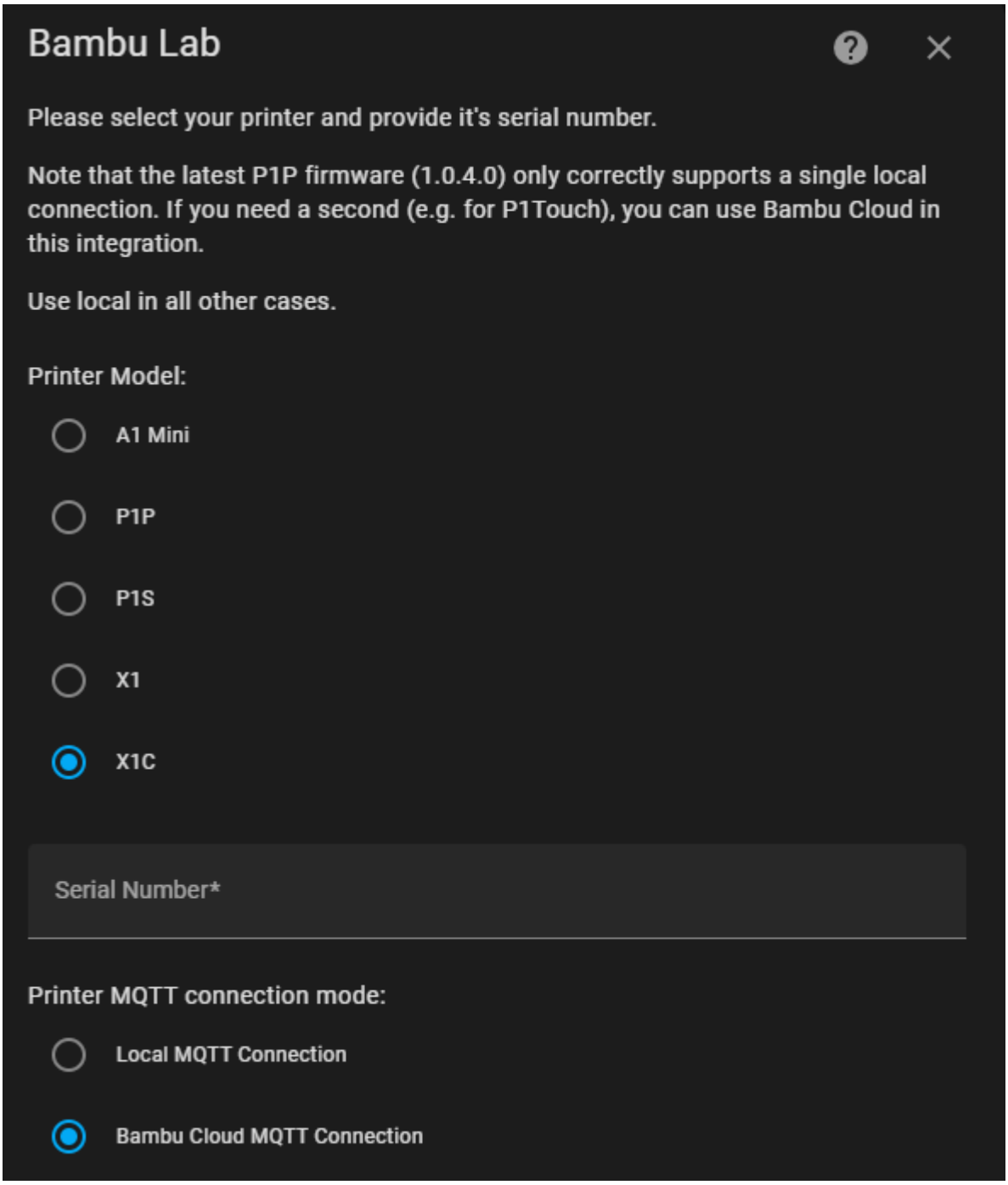
In the bottom right you will find this button (click the button)

From the following screen select the Bambu Lab integration



On the next screen select your printer and connection, I have chosen Bambu Cloud MQTT

Have your serial number of the printer ready and make sure your printer is ON.



After this the Integration will be active and you will be presented with a page showing all available sensors and knobs.

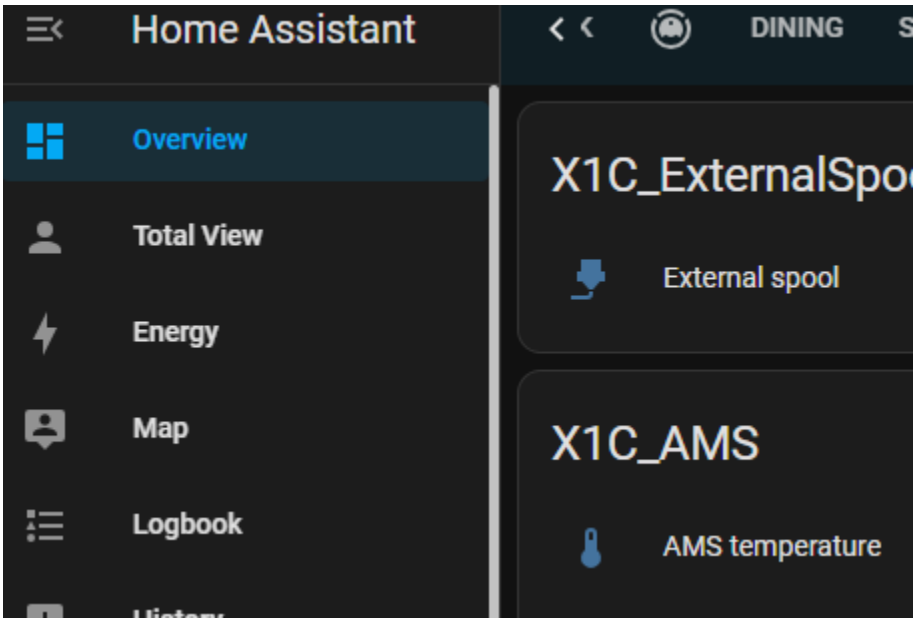
You can now send the card to your earlier made dashboard and let the fun begin.

In my video you see some animated icons (FAN)

The are mushroom cards.

I will explain later how you can make these cards

Go to your printer dashboard by selecying Overview and then on the top press the icon or printer name

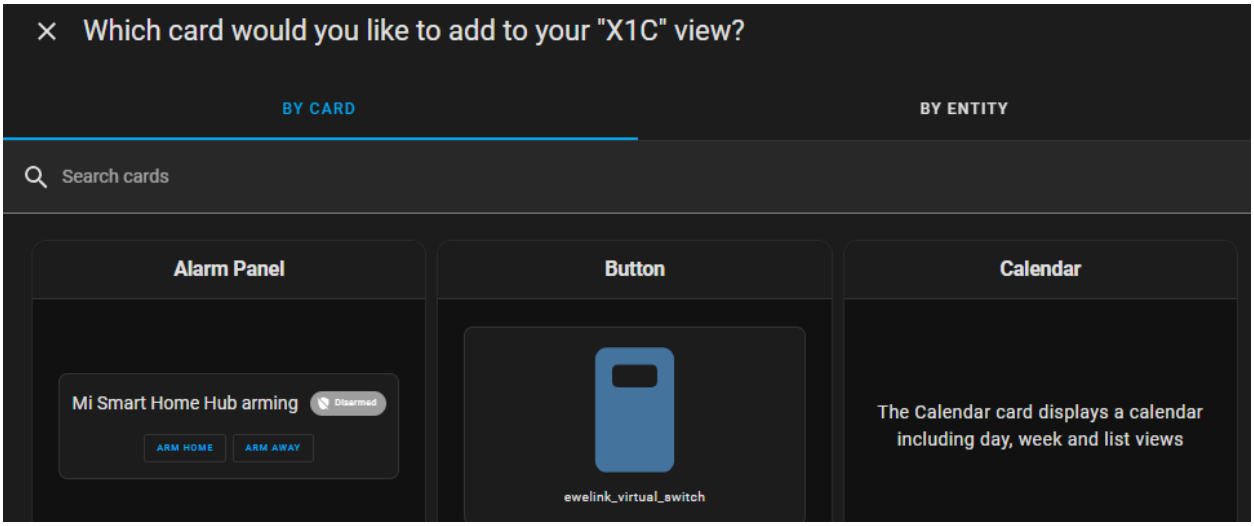


You can start customizing your dashboard by creating a new card

Click in the top right corner the 3 dots – Edit dashboard

In the bottom right click

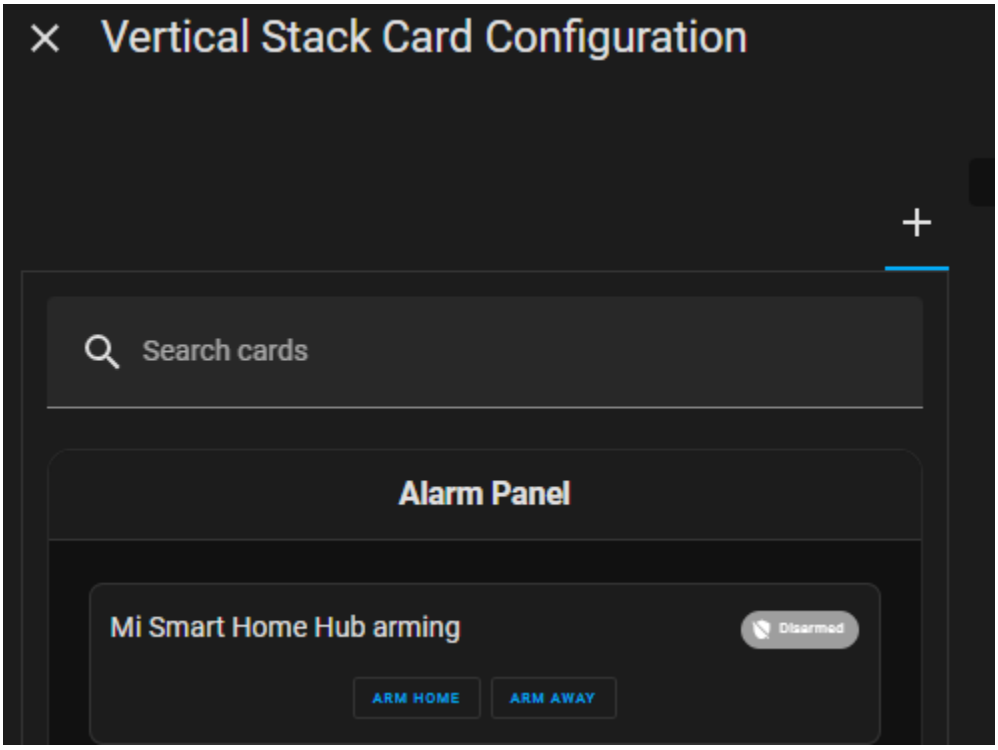
Now you get following screen



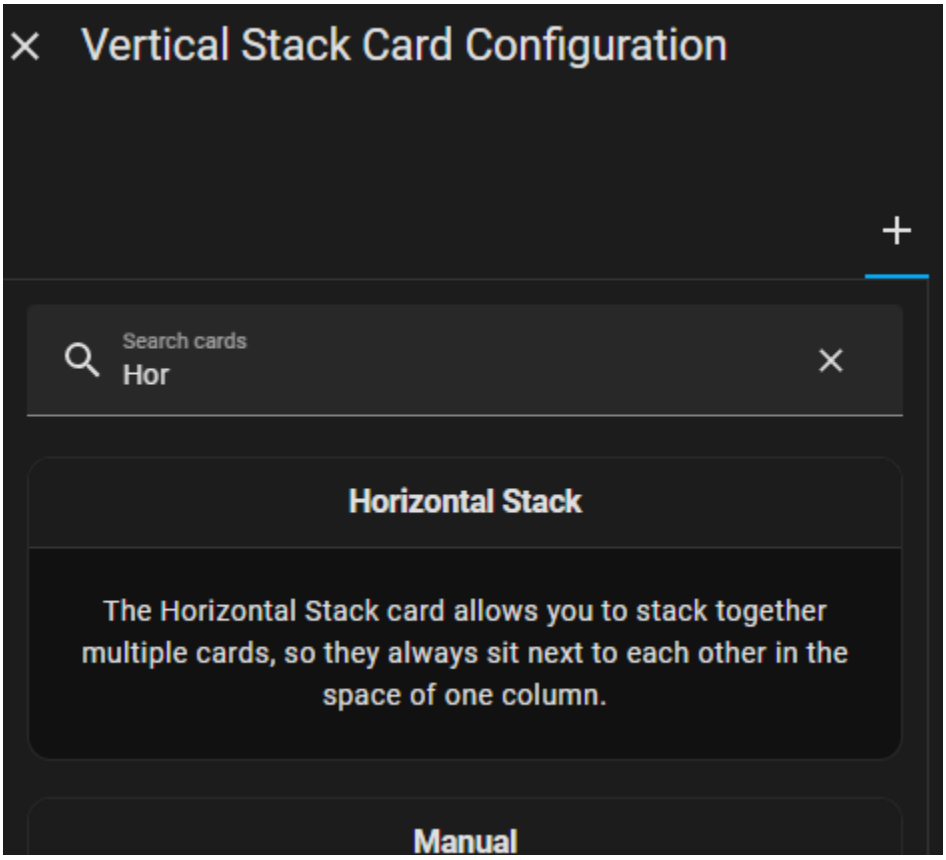
I'm gone give you the way to create the gauges

Choose vertical stack (stack views vertically)

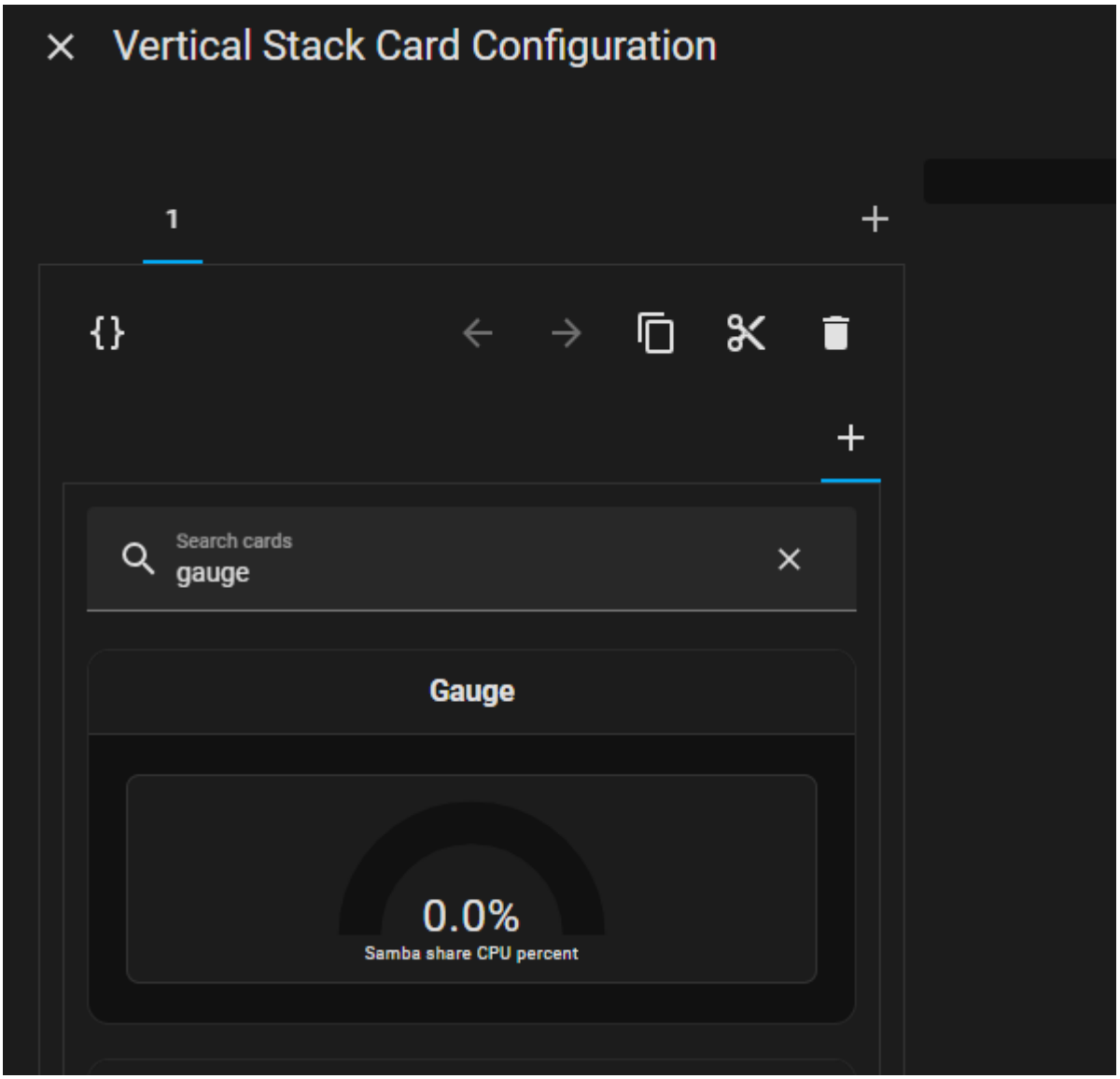
Then we going to configure the 1st vertical to display 2 gauges



To do this choose a Horizontal Stack



Then look for Gauge (just type in the search box)



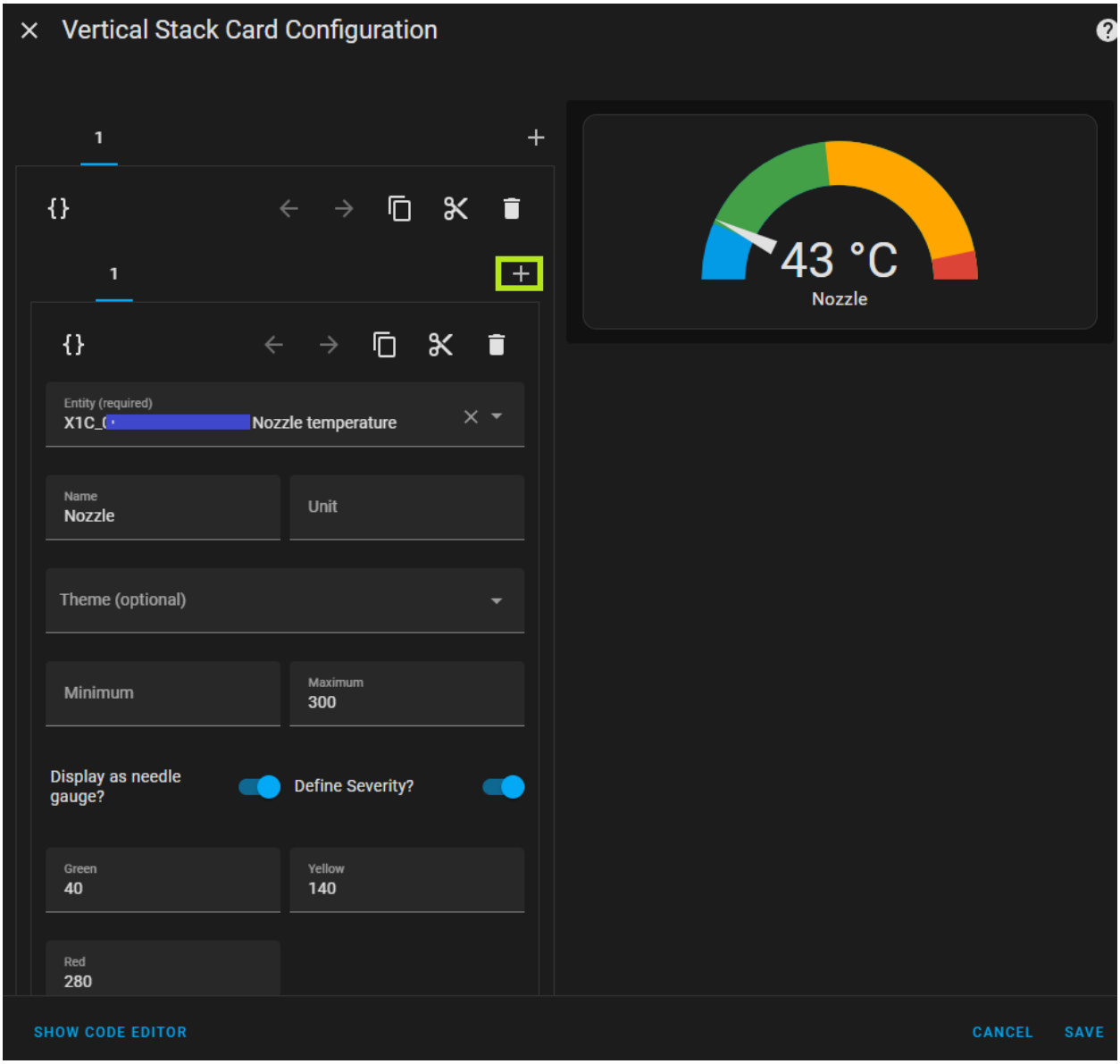
Select the Gauge and under entity start typing X1C (if you have this type of printer)

It will show you the selection of all available Entities that are available.

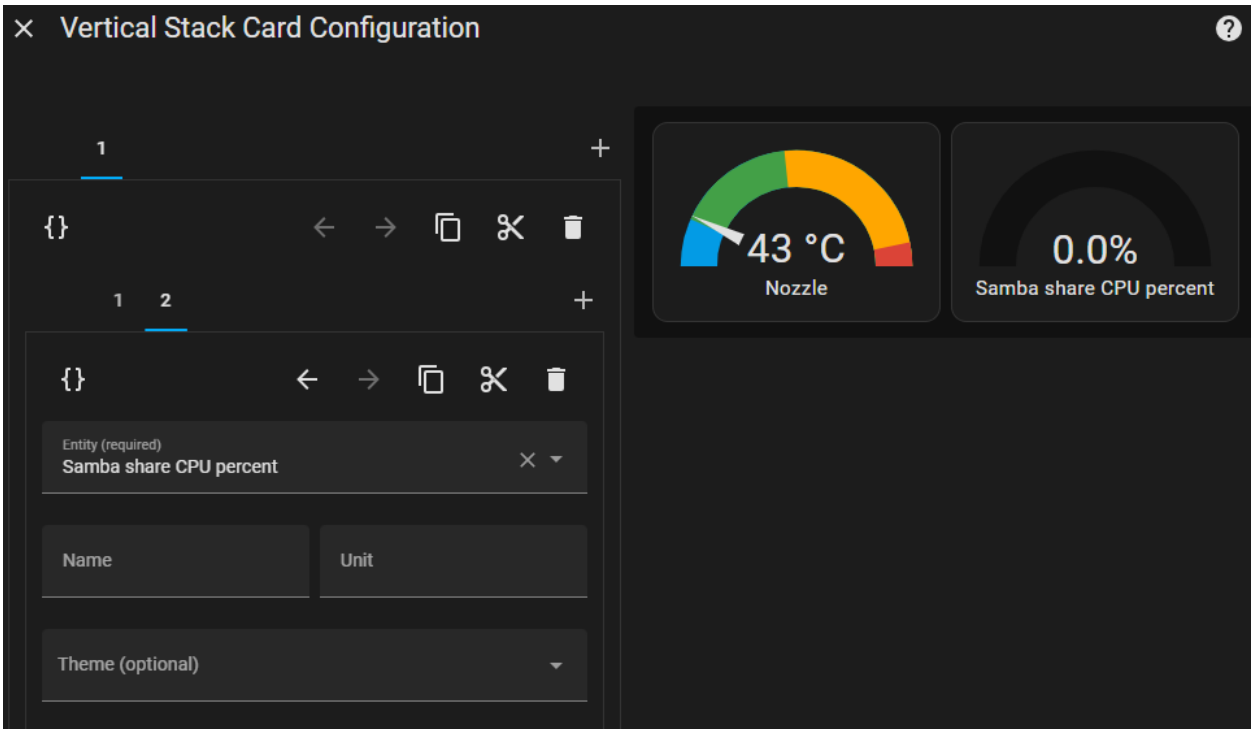
Choose for example the nozzle temperature

Under name give it a friendly name example Nozzle and see the picture to configure the other settings. (I removed my serial number)

DON’T PRESS SAVE YET! And wait pressing the + sign



Now press the + sign as indicated to create your next gauge



Repeat and configure your card

Now you can press save of continue with configuring your card

When your done press DONE in the EDIT UI header on the top of your page.You can always come back and press the 3 dots -> edit dashboard and the in the card press the EDIT button.

The animated fan is created with Mushroom cards, if they are not present go to HACS and ad the repository. (Mushroom card)