

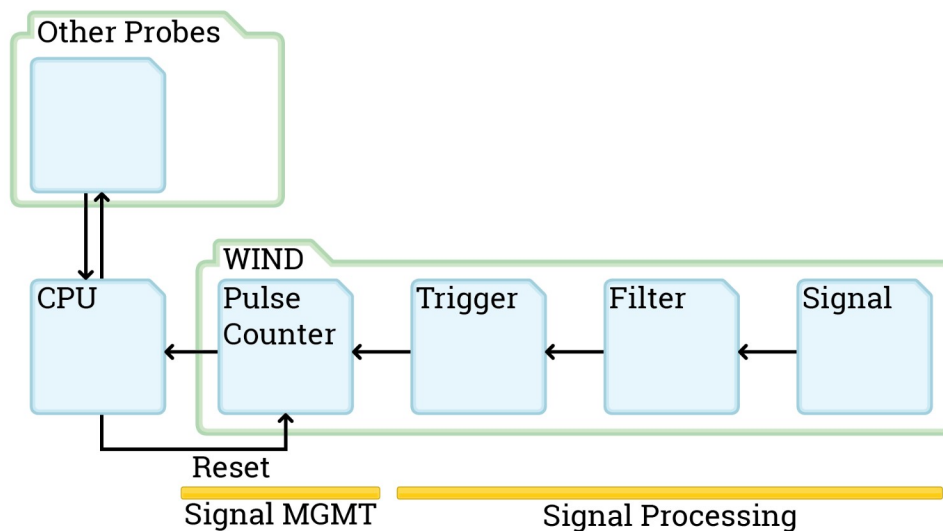
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Weather station: Schmitt Trigger

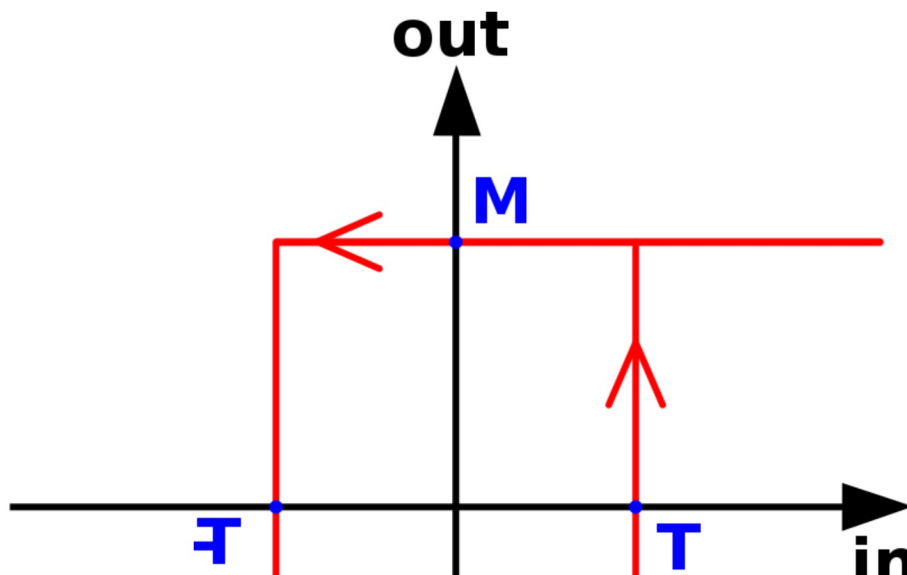
*Name **

2-3 minutes

On 30. November 2019 by TheCell



Today: The pulse counter. We had a look at how the schmitt trigger works and searched for the right component. Then we continued to draw the electrical diagram. We are now almost done with the diagram and are done with the component search. But first lets take a look at the schmitt trigger:

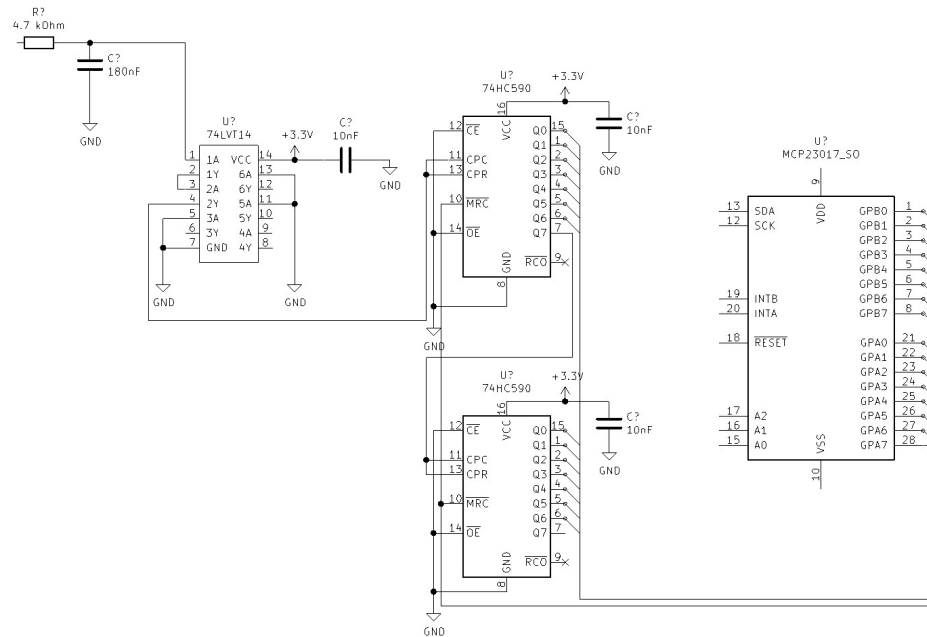




use the 74LVT14 (<https://assets.nexperia.com/documents/data-sheet/74LVT14.pdf>) and this element outputs a 1 when the voltage



And now to the electrical diagram. We kept looking at the datasheets of our chosen elements and had to adjust some parts accordingly. We (or rather Brice) drew the circuit on the whiteboard and we checked the datasheets. This led to a first yet incomplete diagram. We work internally on a diagram and I started a github repo for people who want to see more of it. We are using KiCad as a free and very good tool to draw the electrical diagram, PCB design etc. You can find the Github repository here <https://github.com/TheCell/Weatherstation>.



And for completeness here are my notes and the whiteboard photos.

