

Electronic Instrumentation Temperature Controller

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Design and implement a system to control the temperature based on a temperature sensor (for example a thermistor, LM35, or thermocouple) and a fan.

- If the temperature is higher than 50°C , the fan has to switch on and should only be switched off when the temperature drops below 40°C , in other words, the system has to have hysteresis.
- An opamp can only supply about 10 mW, whereas the fan consumes much more. Signal electronics (opamps, etc.) are not able to supply the necessary power.

