Temperature Threshold Use Case

BASIC COURSE:

At regular intervals the circuit indicates it's temperature through the temperature sensor. The system will track the temperature over time and identify when the circuit is approaching the temperature threshold. The system will then increase the fan speed in proportion to temperature intensity.

ALTERNATIVE COURSE:

The temperature cannot be read: The system will automatically set the fan's speed to full power to ensure the circuit is cool enough. After a designated interval has passed, the system will assume hardware failure and initiate a system shutdown.

Designated interval has pass: After a designated interval has passed, the system will assume hardware failure and initiate a system shutdown.

Decrease fan speed: The system will track the temperature over time and identify when the circuit is approaching the temperature threshold. The system will then decrease the fan speed in proportion to temperature intensity.

Circuit   Sensor   What is temperature trend?   Temperature is increasing   Temperature is decreasing   Fan   Set fan to full power   Shutdown interval passed?

getTemperature
getTemperatureTrend
getTrend
increaseFanSpeed
getTrend
decreaseFanSpeed
unableToReadTemperature
startTimer
shutdown