Basic Thermistor

Welcome back to Cypress Academy, PSoC 6 101. Now we have our BLE remote control with BLE and CapSense; next step, let’s add in the thermistor to our project.

But before we do that, let’s start with a project to understand the basics behind what components are needed to interface to the thermistor. The PSoC 6 architecture is rich with analog peripherals, so in this lesson, I will be covering the basics of the ADC and OpAmp components that will interface with thermistor. .As a reminder, the thermistor is on the E-ink display shield board, so don’t forget to plug that into the remote controller board using the Arduino Uno headers provided for you on the kit.

So let’s get started! Lets create a new project, I’ll call that Basic Thermistor. We’ll drag and drop our components, do our routing, write code, and program and test.

[Create a new project for showing basic ADC and OpAmp]

[Add in components (ADC/OpAmp) for thermistor, describe, API/PDL]

[Add the firmware]

[Add in components (ADC) for thermistor, describe, API/PDL]

[Build, run, demo]

Now, we have a basic understanding of the ADC and Opamp components! For the next video, I’ll show you how to interface to the motion sensor and give ya’ll a lesson on the I2C master component.

You can post your comments and questions in our PSoC 6 community or as always you are welcome to email me at alan\_hawse@cypress.com or tweet me at @askioexpert with your comments, suggestions, criticisms and questions.