

Regulate Current Use Case

Basic Course:

When the circuit indicates high current through the sensor, the system will convert the raw digital input into a usable format. The system will then compute a result using the Fourier Transform, and then compare this result with predefined values. The system will then 'buck' or 'boost' the circuit accordingly by outputting a digital signal.

Alternate Course:

Sensor input cannot be read: When the sensor fails to send an input for a designated time interval, the system will assume a critical hardware failure has occurred and shut down the circuit.