

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' the circuit accordingly by outputting a digital signal.

ALTERNATIVE 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.

Boost mode: The system will then compute a result using the Fourier Transform, and then compare this result with predefined values. The system will then 'boost' the circuit accordingly by outputting a digital signal.

