# Overview

The alarm clock provides 4 functions:

1. Setting an input time
2. Resetting an input time
3. Loading the input time into the timer
4. Alarm

# Functionality

## Setting up an input time

This is done by pressing the left button of the 5 button interface. This will increment the input time. If the input time is incremented over 59:59, it will roll back to 0.

## Resetting an input time

The input time can be reset to 00:00 by pressing the center button.

## Loading the input time into the timer

When the right button is held down for a minimum of 1 second, the value held in the input time will be transferred into the timer. The timer can be reset by resetting the input time and loading the reset input time.

## Alarm

When the timer is 0, the alarm will sound. RGB leds will light up and cycle through colors and an audio sound will play until the alarm is turned off or set again. The audible and visual alarm system can be turned off by turning off the furthest switch to the right.