



Description:

This circuit was developed for advanced multi zone watering system. It involved pre-setting the time for each particular time for a maximum time of 60 mins per zone with additional functionality like enabling, disabling any desired zones according to the needs.

Outline:

This circuit was built in stages. Phase 1 included building of the seconds and minutes counter which serves the basis of counter which was mainly build with the help of and gates and some registers. The next phase included applying the maximum time to the counter followed by maximum time for each zone. Lecture notes proved to be a lot helpful.

Assumptions:

One assumption was made that is when setting the time for each zone if user changes mind and again wants to set the time for that particular zone he needs to first reset the time set and then enter new time again.

