

ABSTRACT

Toothbrush UV Sanitizer is a device used for sterilizing bacteria and viruses contained in toothbrush. Sterilizing itself utilize lightning fast jets produced by UV-C lamp, so that the rays of UV light can directly destroy bacteria / germs.

In general, each individual person will clean the body organs, especially the one of which is often cleaned teeth. So that in this thesis the author wants to make the tool with the title "Toothbrush AT89S8253 Microcontroller-Based UV Sanitizer".

This tool has 2 modes of selection that is lamp lifetime of open data and sterile (timer selection). For the timer work every 60 minutes.

So the tool is made with purpose and is also expected to sterilize and kill bacteria / virus in toothbrush using UVC rays as a source sterilization, because the UV light shining on this device objects / materials that will be sterilized. AT89s8253 microcontroller is the main control of this tool.

Based on the results of measuring the basis transistor in timer at 60 minutes error (% error) of 0.125%.

Based on the tests and experiments that I did, it so it can be concluded that the "Microcontroller-Based Toothbrush UV Sanitizer AT89s8253" can be feasible for use.

Keywords: Toothbrush, Timer, UV lamps, Microcontroller AT89s8253