

ABSTRACT

Dry sterilizer Memmert TV-30U previous state have conditions that are not suitable to be used, just only saved in Hospital Dr. Harjono Ponorogo warehouse. In addition, the system's previous sterilization still manually applying the settings using the rotary control is, therefore, made modifications equipped with temperature and timer settings to display on the instrument display.

This tool is modified by adding the temperature and timer settings and then displayed on a 7 segment display, which makes it easy modification in the use and monitoring at the time of sterilization to work.

Based on the measurements at 120 ° and 160 ° using a conversion of resistance to any increase in the measurement temperature using thermometer at 160 ° error amount of 0,435% and at a temperature of 120 ° error amount of 1,3%. While the timer measurement tool using a cell phone stopwatch was found that the 15 minutes error amount of 1% , 30 minutes error amount of 0,04% , 45 minutes error amount of 0,04%, and 60 minutes error amount of 0,3%,

Keywords: sterilization, stopwatch, timer, display