

ABSTRACT

One of ways to know somebody is fit or not is checking the temperature. Knowing the temperature can be done by using a measurement tool. Like other people as usual, blinds need an information about their health. They can get information by listening a response produced by that tool. For that case, it is important to create a temperature measurement tool including a sound system that can be used by them.

In this final project, a digital thermometer with a sound as an output will be design an implemented. This tool uses a sensor LM 35 to detect the body temperature. Voltage produced by LM 35 will be improved by an OP AMP LM 324 in order to be read by an ADC while the calculation is being handled by microcontroller AT 89C52. The output is presented as sound saved in IC ISD 25120.

This tool will be applied for blinds in order they can check fast their body temperature by themselves without any assistance from others.