

ABSTRACT

Non contac temperature thermometer is a tool to measure body temperature without touch. Using the MLX90615 sensor as an infrared sensor. Arduino as data processor that will be displayed on the display. The thermometer measurement process is equipped with a hold mode to make it easier for users to see the results of measurements of human body temperature. This tool is also equipped with sound output to facilitate use in blind patients and elderly patients. The author uses the ISD1760 IC for voice outpus processing. The authors hope that the "Non Contac Thmometer with Voice Output" tool can be used by all patients with various backgrounds. Temperature testing is done by comparing modules with standard devices. The error obtained from the module is 0.93% and the smallest error is 0.051%.

Keywords: *Thermometer, noncontac, temperature, MLX90615, IC ISD1760*