

## *Abstract*

*Calibration is very important to know the temperature uniformity inside the tool. One of them is at the temperature sterilizer, dry heating sterilizer which is sterilizing the device using a high heat oven. Based on the identification of the above problems, the author intends to make a temperature Calibrator tool as a refinement of previously made tools by measuring temperatures more than one point in order to achieve a calibration process that complies with the standard. The working method of a temperature calibration device is that the sensor will detect the temperature which then enters the IC ATMEGA 328 that has been given the program and processed in such a way that the output will be displayed on the LCD 4x20 character in the form of temperature measurement of the device. Based on the results of comparative data between the module and the comparison tool "8 Channel Thermocouple Temperature Recorder" from the BPFK Surabaya, it has the largest difference of 4<sup>0</sup>C and the percentage error (1,6%) and the smallest difference of 1<sup>0</sup>C and the percentage error (0.16%).*

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*Keywords : Sterilisator, themperature, IC ATMEGA 328*