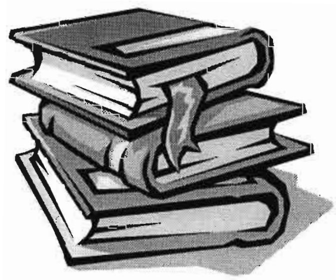
National University of Science And Technology
Faculty Of Industrial Technology
Department of Technical Teacher Education



HEAT-SINK THERMOMETER

BY

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ABSTRACT

Electronic components have operating limits specified by the manufacturer. These have to be adhered to for the proper and efficient operation of the components within the system. All power electronic devices have temperature limits that must not be exceeded, otherwise junction breakdown occurs. To avoid this effect occurring, power electronic devices are usually mounted on heat sinks that radiate heat to the ambience. Failure of the heat sink to offer enough radiation results in the electronic components heating up and destruction might occur. Hence the need for a system that monitors the temperature of the components at all times, that is, the heat sink thermometer.