DESIGNING OF TEMPERATURE PANEL INDICATOR BASED OF TEMPERATURE CONTROL SYSTEM SIMULATOR MICROCONTROLLER

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Abstract

Temperature panel indicator is a temperature system indicator that used to indicated a temperature in plant. Where the temperature measurement results can be displayed on the PC (personal computer) and / or workstation and DCS (Distribute Control System). The tool is used to monitor the temperature in the temperature control of a plant. At this final project will be done scheme of temperature panel indicator on temperature control system simulator, where utilized censor for measuring temperature variable is thermocouple. This monitoring result online controlled by microcontroller AVR to give an output for indicating the condition of temperature process in a state of maximum or minimum using computer monitor. From implementation Temperature panel indicator based on microcontroller temperature control system simulator have a temperature censor with voltage resolution value of 15.625 mVolt

Key words: Temperature Panel Indicator, Mikrokontroler ATMega8535, DS2760, thermocouple