MICROPROCESSOR CONTROLLED CENTRAL HEATING SYSTEM

by

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Project Report

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ABSTRACT

The main purpose of this project is to design and construct a microprocessor controlled central heating system. The system reads an analog signal which is proportional to the room temperature and sends a logic signal to activate the heater if the room temperature is below the desired one. This logic signal is connected to an L.E.D. which gives a visual indication of the state of the heater (If **LED** is **ON** the heater is supposed to be switched **ON** and if **LED** is **OFF** this implies that heater is **OFF**).

The design is done to control four rooms separately, nevertheless, through some modifications – which are indicated later-control can be extended to more rooms.

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Chapter 3: Software

Chapter 4: Extension of control to more rooms

Chapter 5: Testing - Conclusions

Appendices:

8085 Instruction Set

MTB 85-1

74LS138

74LS244

ZN427E

DG211CJ

CD4093BC

2716 EPROM