Abstract

Weather monitoring plays an important role in human life, so the collection of information about the temporal dynamics of weather changes is very important. In any industry during certain hazards it is very important to monitor weather. The fundamental aim of this paper is to develop an embedded system to design a weather monitoring system which enables the monitoring of weather parameters in an industry. Such a system contains pair of sensors like temperature, Gas and humidity will be monitored and LPC1768 microcontroller (ARM9). The data from the sensors are collected by the microcontroller and also microcontroller sends the sensors data in to the LABVIEW by using the Serial Communication and this module will keep the data in excel page & also we can get the SMS in the mobile with the help of GSM module. The system uses a compact circuitry built around LPC1768 (ARM9) microcontroller Programs are developed in Embedded C using the IDE Keilvision4. JTAG is used for loading programs into Microcontroller.

References

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Index Terms

Computer Science Circuit And Systems

Keywords
LPC1768 (ARM9) Humidity sensor Temperature Sensor LABVIEW GSM Module