GSM BASED INDUSTRIAL PROTECTION SYSTEM USING TEMPERATURE SMOKE LDR SENSORS

An embedded system is a special-purpose computer system designed to perform a dedicated function. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product. Embedded system comprises of both hardware and software. Embedded system is fast growing technology in various fields like industrial automation, home appliances, automobiles, aeronautics etc. Embedded technology controller to do the specified task and the programming is done using assembly language programming or embedded C.

THE PROPOSED SYSTEM:

The industrial vulnerabilities such as temperature, Smoke and intrusion are rigorously monitored and alert is raised by an GSM modem in case of any abnormality in parameters. Then the user receives an SMS

ABOUT DOMAIN
A GSM modem provides the communication interface. It transports device protocols transparently over the network through a serial interface. A GSM modem is a wireless modem that works with a GSM wireless network. This GSM Modem can accept any GSM network operator SIM card and act just like a mobile phone with its own unique phone number. Advantage of using this modem will be that you can use its RS232 port to communicate and develop embedded applications. Applications like SMS Control, data transfer, remote control and logging can be developed easily. The modem can either be connected to PC serial port directly or to any microcontroller.
BLOCK DIAGRAM:

TRANSMITTER SECTION

HARDWARE REQUIREMENTS:

1) MICROCONTROLLER UNIT.
2) GSM MODEM
3) ADC
SOFTWARE REQUIREMENTS:

1) KEIL C COMPILER.
2) EMBEDDED C.