

The schematic diagram of Substation monitoring and control system using GSM modem explains the interfacing section of each component with micro controller, GSM module and sensors.

All the hardware components are connected to the microcontroller. The crystal oscillator is connected to 7<sup>th</sup> and 9<sup>th</sup> pins. The regulated power supply is connected to the 20<sup>th</sup> pin, the 2<sup>nd</sup>, 3<sup>rd</sup>, and 6<sup>th</sup> pins are connected to the voltage sensor, temperature sensors, current sensor respectively. The load is connected to the pin no. 21 to 28, reset button for microcontroller is connected to the 1<sup>st</sup> pin, LED and relay are connected to the 13<sup>th</sup> and 15<sup>th</sup> pins respectively. The GSM modem is connected to the 17<sup>th</sup> and 18<sup>th</sup> pins, 8<sup>th</sup> and 19<sup>th</sup> pins are connected to the ground. All these components are integrated on the PCB and made as a protorus hardware kit.

### **3.2 Working:**

The voltage sensor, current sensor and temperature sensor and step up transformer are directly connected to one of the input ports of the microcontroller. The LCD display is connected in the input port of the microcontroller.

The GSM transmitting section and the load variation control are connected to the one of the output ports in the microcontroller. The monitoring PC is connected to the main station. The microcontroller at the substation monitors and captures the current, voltage and temperature values for a period interval.

The captured values are stored in the data register of microcontroller and displayed using the LCD display. The monitored voltage, current and temperature values of the transformer are transmitted using the GSM. Based on the received information, controlling operation is performed.

The rated values are given in the program that is rated voltage as 240v, rated current as 12amperes, rated temperature as 45degrees.

If these parameters exceeded then the threshold level, the mobile receives the message as transformer parameters which are greater than the fixed threshold level, then immediately the unit is shutdown so as to protect.

# Microcontroller Based Substation Monitoring And Control

**CL Gary**



## **Microcontroller Based Substation Monitoring And Control:**

This book delves into Microcontroller Based Substation Monitoring And Control. Microcontroller Based Substation Monitoring And Control is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Microcontroller Based Substation Monitoring And Control, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Microcontroller Based Substation Monitoring And Control
    - Chapter 2: Essential Elements of Microcontroller Based Substation Monitoring And Control
    - Chapter 3: Microcontroller Based Substation Monitoring And Control in Everyday Life
    - Chapter 4: Microcontroller Based Substation Monitoring And Control in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Microcontroller Based Substation Monitoring And Control. The first chapter will explore what Microcontroller Based Substation Monitoring And Control is, why Microcontroller Based Substation Monitoring And Control is vital, and how to effectively learn about Microcontroller Based Substation Monitoring And Control.
  3. In chapter 2, the author will delve into the foundational concepts of Microcontroller Based Substation Monitoring And Control. The second chapter will elucidate the essential principles that must be understood to grasp Microcontroller Based Substation Monitoring And Control in its entirety.
  4. In chapter 3, the author will examine the practical applications of Microcontroller Based Substation Monitoring And Control in daily life. The third chapter will showcase real-world examples of how Microcontroller Based Substation Monitoring And Control can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Microcontroller Based Substation Monitoring And Control in specific contexts. The fourth chapter will explore how Microcontroller Based Substation Monitoring And Control is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Microcontroller Based Substation Monitoring And Control. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Microcontroller Based Substation Monitoring And Control.

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