

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 26, 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

**IEEE Power Engineering Society,ABB  
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## **Microcontroller Based Substation Monitoring And Control:**

**Smart Grids for Smart Cities, Volume 2** O. V. Gnana Swathika, K. Karthikeyan, Sanjeevikumar

Padmanaban, 2023-06-06 SMART GRIDS for SMART CITIES Written and edited by a team of experts in the field this second volume in a two volume set focuses on an interdisciplinary perspective on the financial environmental and other benefits of smart grid technologies and solutions for smart cities This second volume in this groundbreaking two volume set continues the authors and editors mission to present the concepts and best practices of smart grids and how they can be utilized within the framework of a technological tapestry to create smart cities Continuing to go through the challenges and their practical solutions this second volume includes chapters on waste management e waste automotive and transportation engineering and how internet of things can be utilized within these smart technologies and many others Like its predecessor this exciting new volume covers all of these technologies including the basic concepts and the problems and solutions involved with practical applications in the real world Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library ITSPWC 2022 S. Kannadhasan, R.

Nagarajan, George Ghinea, Alagar Karthick, Basim Alhadidi, Kanagaraj Venusamy, 2022-08-04 We are delighted to introduce the proceedings of the first edition of the 2022 International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication ITSPWC 2022 This conference has brought researchers developers and practitioners around the world who are leveraging and developing the Wireless Communication The theme of ITSPWC 2022 was Security and Challenges for Wireless Communication and Power Energy The technical program of ITSPWC 2022 consisted of 33 full papers including 5 invited papers in oral presentation sessions at the main conference tracks The conference tracks were Track 1 Recent Trends in IoT Track 2 Recent Trends in Smart Energy Systems and Transmission Track 3 Recent Trends in Embedded Systems and Track 4 Recent Trends in Communication Systems Aside from the high quality technical paper presentations the technical program also featured one invited talk and two technical workshops The invited talk was presented by Prof Kaushik Pal from Universidade Federal do Rio de Janeiro Brazil The ITSPWC workshop aimed to gain insights into key challenges understanding and design criteria of employing wireless technologies to develop and implement future related services and applications It was a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Technical Program Committee led by our Co Chairs Dr R Nagarajan Dr George Ghinea Dr Alagar Karthick Dr Bassim Alhadidi and Prof Kanagaraj Venusamy who have completed the peer review process of technical papers and made a high quality technical program We are also grateful to all the authors who submitted their papers to the ITSPWC 2022 conference and workshops We strongly believe that ITSPWC conference provides a good forum for all researcher developers and practitioners to discuss all science and technology aspects that are relevant to Security and Privacy in Wireless Communication We also expect that the future Wireless

Communication conference will be as successful and stimulating as indicated by the contributions presented in this volume  
Dr S Kannadhasan *IoT and Analytics in Renewable Energy Systems (Volume 2)* O.V. Gnana Swathika,K.

Karthikeyan,Sanjeevikumar Padmanaban,2023-08-11 Smart cities emanate from a smart renewable energy aided power grid  
The smart grid technologies offer an array of benefits like reliability availability and resiliency Smart grids phenomenally  
contribute to facilitating cities reaching those sustainability goals over time Digital technologies such as the Internet of  
Things IoT automation artificial intelligence AI and machine learning ML significantly contribute to the two way  
communication between utilities and customers in smart cities Five salient features of this book are as follows Smart grid to  
the smart customer Intelligent computing for smart grid applications Novel designs of IoT systems such as smart healthcare  
smart transportation smart home smart agriculture smart manufacturing smart grid smart education smart government  
smart traffic management systems Innovations in using IoT and AI in improving resilience of smart energy infrastructure  
Challenges and future research directions of smart city applications ICAE 2022 Prasaja Wikanta,Alena

Uperati,Abdurahman Dwijotomo,2023-06-28 This is proceeding for the 5th International Conference on Applied Engineering  
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keynote speeches in this conference We hope this ICAIE proceeding will have impact to the research community in the longer

term *Microcomputer Applications*, 1990 *Science Abstracts*, 1995 *Information and Automation* Luo Qi, 2011-04-15  
This book constitutes the refereed proceedings of the International Symposium on Information and Automation ISIA 2010 held in Guangzhou China in November 2010. The 110 revised full papers presented were carefully reviewed and selected from numerous submissions. The symposium provides a forum for researchers, educators, engineers, and government officials to present and discuss their latest research results and exchange views on the future research directions in the general areas of Information and Automation. **Electrical & Electronics Abstracts**, 1997 **Proceedings of the 21st International Conference on Power Industry Computer Applications** IEEE Power Engineering Society, ABB Asea Brown Boveri Ltd, 1999 IEEE Catalog Number 99CH36351 verso of T p Conference Proceedings, 1999 *Index to IEEE Publications* Institute of Electrical and Electronics Engineers, 1998 Issues for 1973 cover the entire IEEE technical literature

*Microcontroller-Based Temperature Monitoring and Control* Dogan Ibrahim, 2002-10-08 Provides practical guidance and essential theory making it ideal for engineers facing a design challenge or students devising a project. Includes real world design guides for implementing a microcontroller based control systems. Requires only basic mathematical and engineering background as the use of microcontrollers is introduced from first principles. Engineers involved in the use of microcontrollers in measurement and control systems will find this book an essential practical guide providing design principles and application case studies backed up with sufficient control theory and electronics to develop their own systems. It will also prove invaluable for students and experimenters seeking real world project work involving the use of a microcontroller. Unlike the many introductory books on microcontrollers Dogan Ibrahim has used his engineering experience to write a book based on real world applications. A basic mathematical and engineering background is assumed but the use of microcontrollers is introduced from first principles. *Microcontroller Based Temperature Monitoring and Control* is an essential and practical guide for all engineers involved in the use of microcontrollers in measurement and control systems. The book provides design principles and application case studies backed up with sufficient control theory and electronics to develop your own systems. It will also prove invaluable for students and experimenters seeking real world project work involving the use of a microcontroller. Techniques for the application of microcontroller based control systems are backed up with the basic theory and mathematics used in these designs and various digital control techniques are discussed with reference to digital sample theory. The first part of the book covers temperature sensors and their use in measurement and includes the latest non invasive and digital sensor types. The second part covers sampling procedures control systems and the application of digital control algorithms using a microcontroller. The final chapter describes a complete microcontroller based temperature control system including a full software listing for the programming of the controller. *Conference Proceedings* IEEE Power Engineering Society. General Meeting, 2003 **Electrical World**, 1994 Fourth International Conference on Advances in Power System Control, Operation & Management, 11-13 November 1997, 1997 *Applied*

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