

## Microcontroller Based Substation Monitoring And Control

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6 V May 2018 <http://doi.org/10.22214/ijraset.2018>

The following GSM based projects deal with substation monitoring and controlling aspects:- 1. Microcontroller-Based Substation Monitoring and Control System with GSM Modem.-This system acquires a remote substation's parameters like voltage, current, frequency, etc., via GSM network using GSM modem or mobile.

Substation Monitoring and Control Using Microcontroller & GSM

The project "microcontroller based substation monitoring and control system with lot module " was designed such that the devices can be monitored using lot module. Integrating features of all the hardware components used have been developed in it. Presence of every module has been reasoned out

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Microcontroller Based Substation Monitoring and Control System with Gsm Modem Amit Sachan Department of Energy & Power Engineering NIMS University, Jaipur, Rajasthan Abstract : The purpose of this project is to acquire the remote electrical parameters like Voltage, Current and Frequency and send these real time values over GSM network using GSM Modem/phone along with temperature at power station.

An Efficient Monitoring of Substations using ...

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REMOTE MICROCONTROLLER BASED MONITORING OF SUBSTATION AND ...

DOI: 10.9790/1676-0161321 Corpus ID: 1289657. Microcontroller Based Substation Monitoring and Control System with Gsm Modem @article{Sachan2012MicrocontrollerBS, title={Microcontroller Based Substation Monitoring and Control System with Gsm Modem}, author={A. Sachan}, journal={IOSR Journal of Electrical and Electronics Engineering}, year={2012}, volume={11}, pages={13-21} }

Microcontroller based-substation-monitoring-and ...

This paper is aimed at designing a microcontroller based distribution substation monitoring system that monitors the voltages, current, oil temperature and the moisture content of the silical gel.

Microcontroller Based Substation Monitoring And

Microcontroller Based Substation Monitoring and Control System with Gsm Modem Amit Sachan Department of Energy & Power Engineering NIMS University, Jaipur, Rajasthan Abstract : The purpose of this project is to acquire the remote electrical parameters like Voltage, Current and

Power Sector Projects.Substation Data Monitoring System ...

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Microcontroller Based Substation Monitoring and Control ...

3. PROPOSED MICROCONTROLLER BASED SYSTEM FOR SUBSTATION MONITORING Distributed transformers are prone to damages due to the raise in oil temperature when there is an overload or huge current flows through the internal winding of the transformer. When the oil temperature rises, it increases the probability of getting damages in the transformers.

MONITORING OF SUBSTATION USING RF BASED DAS IN ELECTRICAL ...

<https://www.irjet.net/archives/V4/i4/IRJET-V4I478.pdf>

A smart IoT based system for monitoring and controlling ...

Fig 1. Substation Monitoring System . IV. Receiving (Control) Section . In the control section simply RF receiver, encoder, microcontroller and LCD as shown in fig. 2. The monitored values that are sent by substation are obtained by RF receiver and this one is handled and controlled by microcontroller and it will display on LCD.

Substation Monitoring and Control Using Microcontroller & GSM

Based on the experiment results it is terminated that the proposed new IoT based sub-station controlling and monitoring system worked successfully when implemented on the practical circuit. The circuit breaker can be controlled from a button feed which has two states: Open/Close.

(PDF) Microcontroller Based Substation Monitoring and ...

presentation on microcontroller based substation monitoring and controlling system hasan, mahmud 13-24213-2 3. ADVANTAGES Remote monitoring to avoid further power loss and time. Whole system can be shut down for quick repairs and re-installations. Low maintenance . Fair efficiency. High accuracy.

An Efficient Monitoring of Substations using ...

It will result in efficient working of sub-station and less man power. The data of the sub-station is present on web which can be observed and monitored at any place.Monitoring & tripping of circuit in transmission & distribution sector. The fault will be under control.It helps to improve the power system of the sub-station.

GSM Based Projects for Substation Monitoring and ...

The paper proposes an innovative design to develop a system based on AVR micro controller that is used for monitoring the voltage, current and temperature of a distribution transformer in a substation and to protect the system from the rise in mentioned parameters. Providing the protection to the distribution transformer can be

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[1] Amit Sachan, "Microcontroller based substation monitoring and control system with GSM modem" ISSN: 2278-1676 Volume 1, Issue 6 (July-Aug. 2012), PP 13-21 [2] Natalie Matta, Rana Rahim-Amoud, Leila Merghem-Boulahia, Akl Jrad, "A wireless sensor network for monitoring and control in the smart grid" (IEEE)

Microcontroller Based Substation Monitoring and Control ...

be continuously monitored by the designed monitoring and To achieve this objective a prototype model is designed for "Microcontroller Based Substation Monitoring and Control System with GSM (Global System for Mobile Communication) Module". The design is based on microcontroller 16F877A/18F452that monitors and [16][17]

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