

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

**Wolfgang Guggemos**



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