

ABSTRACT

REMOTE MONITORING SYSTEM BASED ON GPRS (Case Study on Temperature Sensors)

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Technological advances in terms of measuring electrical current magnitude is growing rapidly, one of which is to deliver information on the amount of electricity over long distances. The development of increasingly sophisticated measuring instrument that helps the industry in terms of monitoring the performance of industrial equipment that are needed in real time to maintain and increase productivity. If an industry is located very far away and unreachable if the network just as ADSL cable-based Internet and so on, then one solution for data communication that can be used is GPRS-based communication network.

In this research, have successfully created a remote monitoring system based on GPRS service. Implementation of this scheme requires some software such as Visual Basic 6, MyODBC, PHP and MySQL. On the PC client will process the input data from sensors and send data to MySql server on your PC using GPRS data service. Further data can be displayed and managed to be accessed through the Internet network.

Results of testing long-distance monitoring system shows that this system can work properly, efficiently and reliably. Information delivery system takes the sensor data during transmission. The time needed varies depending on the network traffic.

Key word : Monitoring, GPRS, temperature, server, PHP, MySQL.