

INTISARI

Sistem Telemetry dengan Metode *Multi Tone* menggunakan prinsip sinyal informasi frekuensi *tone* yang mewakili perubahan data hasil pengukuran sensor. Sistem Telemetry dengan Metode *Multi Tone* dikembangkan ke dalam sistem jaringan komputer berbasis Web sehingga dapat diakses dari jarak jauh.

Data dari sensor suhu, tekanan, kelembaban yang diterima di penerima yang berupa *file* teks diolah dan kemudian dimasukkan ke dalam *database MySQL*. Sistem ini berbasis *WEB* dan dibangun menggunakan bahasa pemrograman *PHP*. Dalam proses pembuatan grafik, tersedia pemilihan waktu berdasarkan jam dan menit. Data tiap jam merupakan data selama 1 hari, sedangkan data tiap menit merupakan data selama 1 jam.

Sistem aplikasi berbasis Web menghasilkan suatu tampilan grafik berdasarkan waktu dari masing-masing. *Admin* memiliki fasilitas *upload*, *backup*, ganti *password* dan *logout*. *User* memiliki fasilitas *download* untuk melihat data dari grafik yang ditampilkan. Sistem ini dibuat untuk memberikan kemudahan dengan *user interface* yang sederhana.

Kata Kunci: telemetry, web, grafik.

ABSTRACT

The Telemetry System with Multi Tone Method employs the principle of tone frequency information signal, which represents the change in the result of censor measurement data. The Telemetry System with Multi Tone Method is developed into web-based computer network system so that it could be accessed in the distance.

Censor of data of temperature, pressure, and humidity which were received in the receiver in the form of text file is processed and feeded into MySQL database. The system is web-based and built upon PHP programming language. There are two time preferences in the process of graph building, namely hour-based and minute-based time preferences. The hourly data were data during one day, where as the minutely data are data during one hour.

The web-based application system results a graph visualization based on the time preferences from each censor. Admin has the facility to upload and backup data, change the password and logout. User has the facility to download the data to see the data from the graph that is being visualized. This system is developed to provide a simple user interface.

Keyword: telemetry, web, graph